COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: February 25, 2019
AGENDA NUMBER: 13
FILE NUMBER: 18-043
ITEM: Bunker Beach Parking Lot addition Trails Reconstruction

RECOMMENDATION: Table with 9 Stipulations

APPLICANT: Anoka County Parks
550 Bunker Lake Blvd
Andover, MN 55304

PURPOSE: Trail and Parking lot additions and replacements
5,444 Sq. ft. new impervious trail on 152,217 Sq. Ft. lot
5,333 Sq. ft. new impervious parking lot on 256,478 Sq. ft. lot

LOCATION: Bunker Hills Regional Park, Coon Rapids, MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. One or more cumulative acres of land disturbance
5. High infiltration soils
6. Highly erodible soils
7. Endangered, Threatened or Special concern species, elements or communities

**EXHIBITS:**
1. Construction Plan set (14 sheets); by Anoka County Parks, dated 02/11/2019, received 02/13/2019.
5. Double Ring Infiltrometer test results; by NTI, dated 10/26/2018, received 02/13/2019
6. E-mail Correspondence, by MN DNR, dated 5/10/2018, received 2/13/2019
PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:

Pre-application Meeting: The project as submitted received a general review during a pre-application meeting on 2/9/18.

Ditches: There is not a public ditch on the property.

Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soils affected by the proposal are Lino, Isanti, Sartel.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles are protected from erosion.
- 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 in the General Plan Notes.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- No storm sewer pipes are proposed.
- Not all storm sewer inlets are protected from sediment-laden water during construction.
- All work adjacent to water or related resource has 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 racking 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.

Dewatering: Shallow ground water does not exist on site. The project does not require dewatering.

Floodplain: There is no floodplain on the property according to the District model and FEMA.

Groundwater: Geotechnical information collected in October 2017 indicates long term groundwater elevation is present at 3 to 10 feet below the surface.

The project site is not within the Emergency Response Area/10 Year Well Head Protection Area/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: The owner of the Stormwater Management features and treatment practices is Anoka County Parks. 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>
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</thead>
<tbody>
<tr>
<td>Rain Gardens</td>
<td>1</td>
<td>Anoka County Parks</td>
</tr>
<tr>
<td>Infiltration areas</td>
<td>3</td>
<td>Anoka County Parks</td>
</tr>
</tbody>
</table>

A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.
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 not provided and is not needed.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is achieved. The stormwater management system utilizes sedimentation basins, and existing infiltration. 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. Concentrated storm water leaving the 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 discharges into wetlands/stormwater basins are pretreated by a sediment basin/water quality pond, and are designed correctly. 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 a portion drains to an Impaired 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 been delineated. The most recent delineation was completed on 10/16/17. The wetland boundary has been checked.

The project is not exempt.

The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.

**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 contacted the MDNR natural heritage or endangered species program. The applicant has indicated that contact was made 9/28/17. MDNR has responded to the applicant. MDNR Threatened and Endangered Species visited the site in May 2018 and determined no additional survey is necessary.

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:** $4095.00  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.

### ISSUES/CONCERNS:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tr>
<td>Escrows: $2,000 + (4.19 ac * $500/ac = $4,095.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td><strong>Stormwater &amp; Hydraulics:</strong> The parking lot reclamation project reaches subsurface soils and is considered redevelopment of an untreated area. The District estimates 147,640 sq. ft. must be treated. Approximately 0.282 acre/feet of stormwater runoff is required to be treated. Note that sufficient infiltration capacity is available for this volume. The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. A post construction test on the infiltration basin will be required to verify the assumed infiltration rates are obtained. Unclear if pretreatment sedimentation basins are of sufficient size to prevent re-suspension and remove sediment. Elevation of inlet to infiltration area PS1 is not clear.</td>
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<td>2. No action required to address water quality volume, sufficient infiltration capacity is available.</td>
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<td>3. The applicant must provide a note on the construction plans that a post construction test on the infiltration basin will be conducted by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</td>
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<td>4. Provide calculations supporting sizing in compliance with MN Stormwater Manual or size sedimentation basins for 0.5” inch storm.</td>
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<td>5. Provide note for curb cut at inlet of infiltration area PS1, at location of Flexamat.</td>
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**Soils & Erosion Control:** District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.

Sediment runoff protection is required at the rain garden and infiltration area curb cuts during construction.

The locations of rain garden and infiltration areas required to be protected during construction are not clear.

6. Update construction plans to stabilize vegetation within 7 days of rough grading or inactivity.
7. Provide biorolls or equivalent protection at the rain garden and infiltration area curb cuts during construction.
8. For clarity identify locations of rain garden and infiltration areas on grading plan.

**Maintenance:** It is unknown who will be responsible for the inspection and maintenance of stormwater facilities. A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.

9. Provide an O&M Agreement that meets District requirements.

**RECOMMENDATION:** Table with 9 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. No action required to address water quality volume, sufficient infiltration capacity is available.
3. The applicant must provide a note on the construction plans that a post construction test on the infiltration basin will be conducted by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.
4. Provide calculations supporting sizing in compliance with MN Stormwater Manual or size sedimentation basins for 0.5” inch storm.
5. Provide note for curb cut at inlet of infiltration area PS1, at location of Flexamat.
6. Update construction plans to stabilize vegetation within 7 days of rough grading or inactivity.
7. Provide biorolls or equivalent protection at the rain garden and infiltration area curb cuts during construction.
8. For clarity identify locations of rain garden and infiltration areas on grading plan.
9. Provide an O&M Agreement that meets District requirements.