COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: October 12, 2015
AGENDA NUMBER: 11
FILE NUMBER: 15 - 129
ITEM: CD59-1 Culvert Repair

RECOMMENDATION: Approve with 0 Stipulations

APPLICANT: City of Ham Lake
15544 Central Ave
Ham Lake MN 55304

PURPOSE: Emergency Culvert Repair

LOCATION: 144th Avenue between Aberdeen Street and Hwy 65
APPLICABILITY:
1. Any work within or adjacent to a Public Ditch within the Watershed District.
2. The lands and water that have been, or may be covered by the regional flood.
3. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Uses)
4. High water table, outwash and organic soils.
5. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.

EXHIBITS:

HISTORY & CONSIDERATIONS: Permit application has been applied for “after the fact” due to emergency replacement of the CD59-1 cross-culvert underneath 144th Ave. The existing 30-inch CMP had collapsed, resulting in a significant sink-hole in the roadway. The culvert was replaced with a dual wall 30-inch CPP at the same inverts as the existing structure. The disturbed areas have already been hydroseeded and the road is open for traffic.

FINDINGS:
Ditches and Drainage: There is a public ditch on the property. The ditch is County Ditch 59-1. There are over 1000 acres of existing agricultural land affected by this ditch. There are no flooding concerns downstream. There is no additional drainage as part of this project. The public ditch was last repaired in 2012. The ditch is in need of repair.

Floodplain: There is no floodplain on the property according to FEMA. The District Atlas 14 model predicts the 100-year elevation for the subwatershed at 883.1 on the downstream end and 885.1 feet on the upstream end. The total floodplain impact is 0 acre-feet, within the floodplain. Compensatory storage is not needed.

Groundwater: Surficial ground water is present at unknown feet. The site does include groundwater sensitive areas. No buildings or infiltration proposed, information is not needed to substantiate low floor elevations.

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.
**Maintenance:** The proposed project does include a ditch maintenance easement or utility line crossings. It is not necessary to notify property owners affected by changes in drainage because this will be a culvert replacement matching hydraulics.

**Soils & Erosion Control:** Soil affected by the proposal is Seelyeville. Stabilizing vegetation has already taken place on site. Project site is not greater than 1 acre; an NPDES permit is not required.

**Stormwater & Hydraulics:** The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation but is not required to for this type of project. Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system. Drainage sensitive uses do 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. The applicant replaced the existing culvert with a hydraulically equivalent culvert.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. All discharges into wetlands are pretreated. 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.

**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**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.

**Performance Escrow:** $0

**ISSUES/CONCERNS:**
None.

**RECOMMENDATION:** Approve with 0 Stipulations

**Stipulations:**
None.