

## Memorandum

**To:** Bassett Creek Watershed Management Commission  
**From:** Barr Engineering Co.  
**Subject:** Item 4E – 239 Peninsula Road Project – Medicine Lake  
BCWMC November 18, 2015 Meeting Agenda  
**Date:** November 11, 2015  
**Project:** 23270051 2015 2061

### 4E 239 Peninsula Road Project – Medicine Lake

#### Summary:

**Proposed Work:** Installation of solar panels

**Basis for Commission Review:** Work within the floodplain

**Impervious Surface Area:** Increase 84 square feet

**Recommendation:** Approval

#### General Background & Comments

The proposed project includes installation of two solar panels at 239 Peninsula Road in the City of Medicine Lake. The project is in the Medicine Lake direct subwatershed. The project parcel is 0.41 acres; approximately 400 square feet will be graded to construct the project. The proposed project results in an increase of 84 square feet of impervious surface on the parcel, and the parcel has an existing impervious area of approximately 7,400 square feet.

#### Floodplain

The project is located within the Medicine Lake floodplain (elevation 890.3). As part of the project, concrete footings will be constructed in the floodplain to support two solar panels. The concrete footings will be placed below grade, with final grade restored to match the existing surface elevation. Material excavated for the installation of the concrete footings will be disposed off-site outside of the floodplain. The project will result in no fill within the floodplain.

#### Wetlands

The Bassett Creek Watershed Management Commission is the LGU for administering the Minnesota Wetland Conservation Act of 1991 in the City of Medicine Lake. As such, the BCWMC must investigate and appropriately address any wetland impacts. Based on a review of the National Wetland Inventory mapping, it appears there are no wetlands within the project area.

#### Stormwater Management

Under existing conditions the northern portion of the site drains north toward Peninsula Road and the southern portion of the site drains south toward Medicine Lake. Under proposed conditions the drainage patterns of the site will remain the same.

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**Page:** 2  
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## **Water Quality Management**

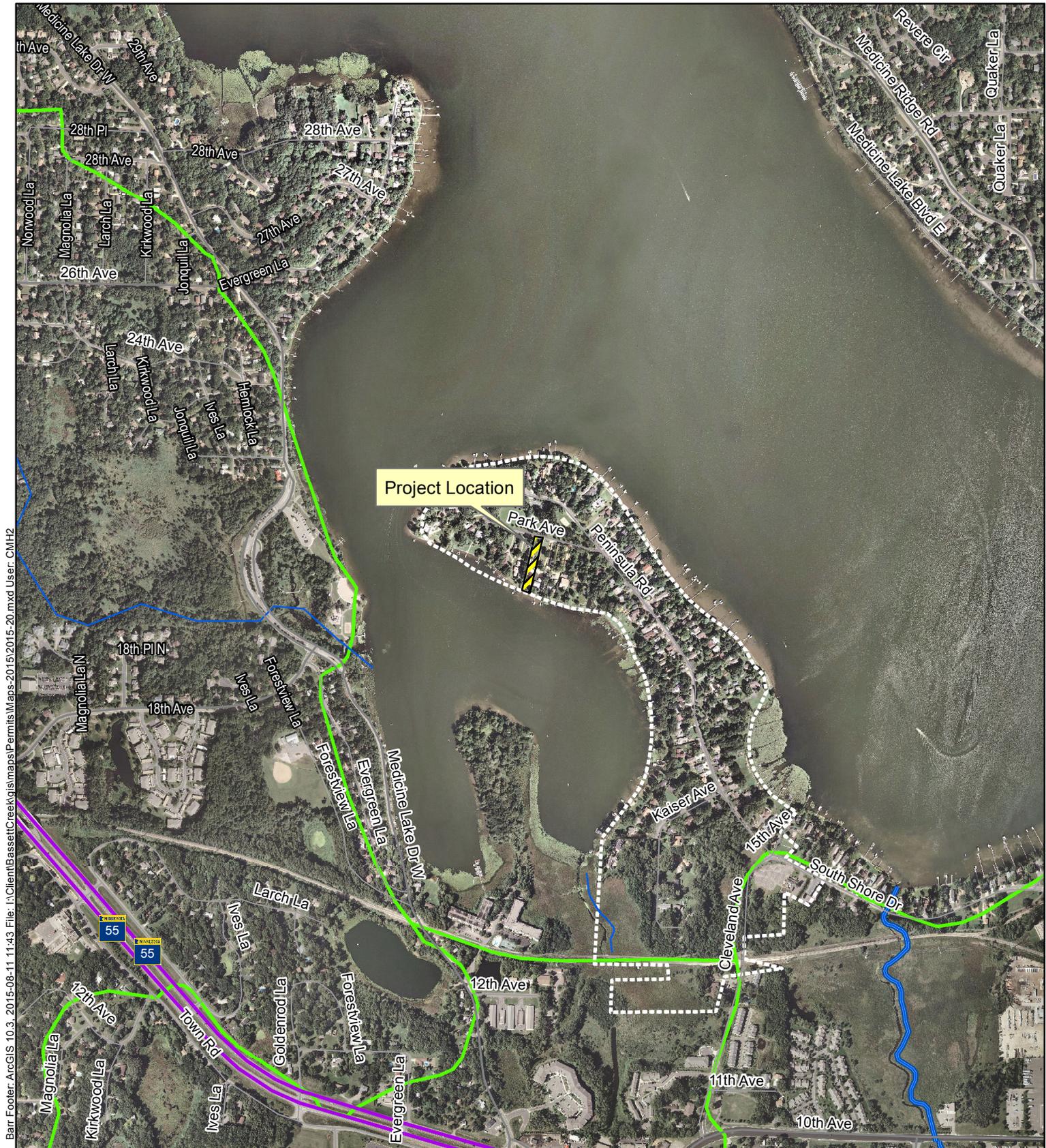
There is currently no constructed water quality treatment provided on the site. Because the project is creating and/or reconstructing less than one acre of impervious surface, no water quality treatment is required on-site. The BCWMC encourages the use of infiltration, filtration, or other abstraction of runoff from impervious area for all development and redevelopment projects as a best practice to reduce stormwater runoff. The amount of impervious surface constructed during the project will be disconnected impervious surface from small individual concrete footings and will have a minimal impact to water quality.

## **Erosion and Sediment Control**

Since the area to be graded is less than 10,000 square feet and the project involves less than 200 cubic yards of cut or fill, the proposed project is not required to meet the BCWMC erosion control requirements.

## **Recommendation**

Approval.



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Imagery Source: Aerial Express (2009)

-  Project Location
-  Bassett Creek
-  WMC Boundary
-  Major Subwatershed
-  Municipality
-  Stream



Feet



**LOCATION MAP  
APPLICATION 2015-30  
239 Peninsula Road  
Medicine Lake, MN**