

Stormwater U

Stormwater Pond Management: Outfalls and Pond Inventories

The first in a series on stormwater pond management

#2: Three examples of successful collaborative projects

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RWMWD Engineer; Barr Engineering Company

Thursday, March 18, 2008

Stillwater MN



Ramsey-Washington Metro



District



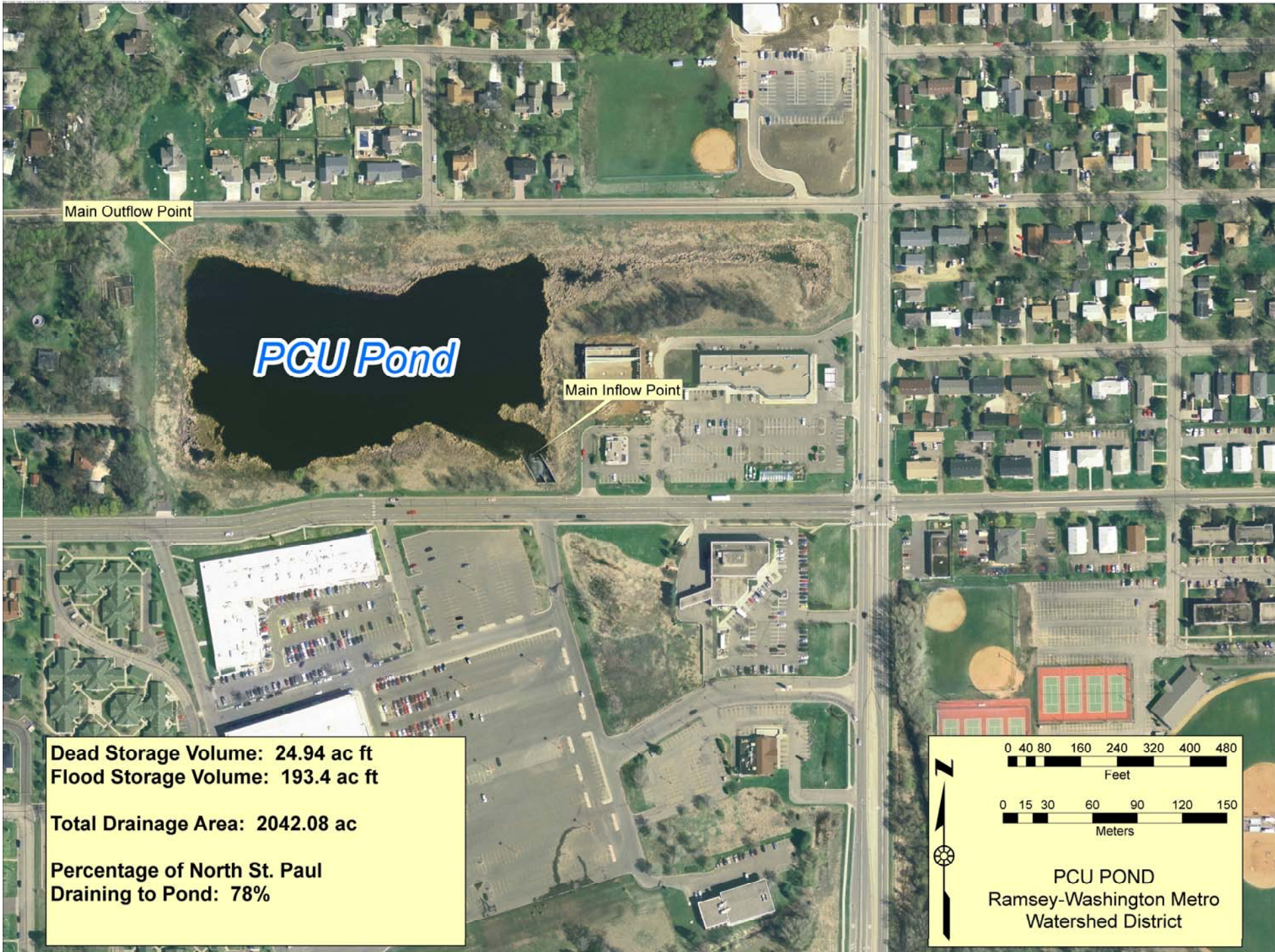
ST. ANTHONY FALLS LABORATORY

Three examples of successful collaborative projects

PCU Pond – North St. Paul

Gervais Mill Pond – Little Canada

Tanners WQ Improvement -
Oakdale



Main Outflow Point

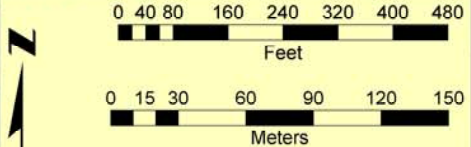
PCU Pond

Main Inflow Point

Dead Storage Volume: 24.94 ac ft
Flood Storage Volume: 193.4 ac ft

Total Drainage Area: 2042.08 ac

**Percentage of North St. Paul
Draining to Pond: 78%**



PCU POND
Ramsey-Washington Metro
Watershed District

Benefits

Watershed District

- Regional Flood Control
- Regional WQ improvement

City of North St. Paul

- Local Flood Control
- Local WQ Treatment
- Wildlife Viewing Area
- Community Educational Area



Benefits

Watershed District

- Regional WQ Improvement
- Wildlife Habitat

City of Little Canada

- City Park
- Fishing Ponds
- Local WQ Treatment
- Wildlife Viewing Area
- Native Habitat Restoration Area



Alum Treatment Plant and Floc Pond

Tanners Lake Wetland and Permeable Weirs

5th Street Water Quality Pond

Tanners Lake Berm and Water Quality Pond

Tanners Lake I-94/Century Ave Water Quality Treatment

Tanners Lake Outlet Structure

Tanners Lake

Battle Creek Lake

0 150 300 600 900 1,200
Feet

0 25 50 100 150 200 250 300 350 400
Meters

TANNERS LAKE
Ramsey-Washington Metro
Watershed District

Benefits

Watershed District

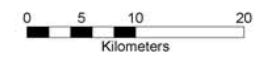
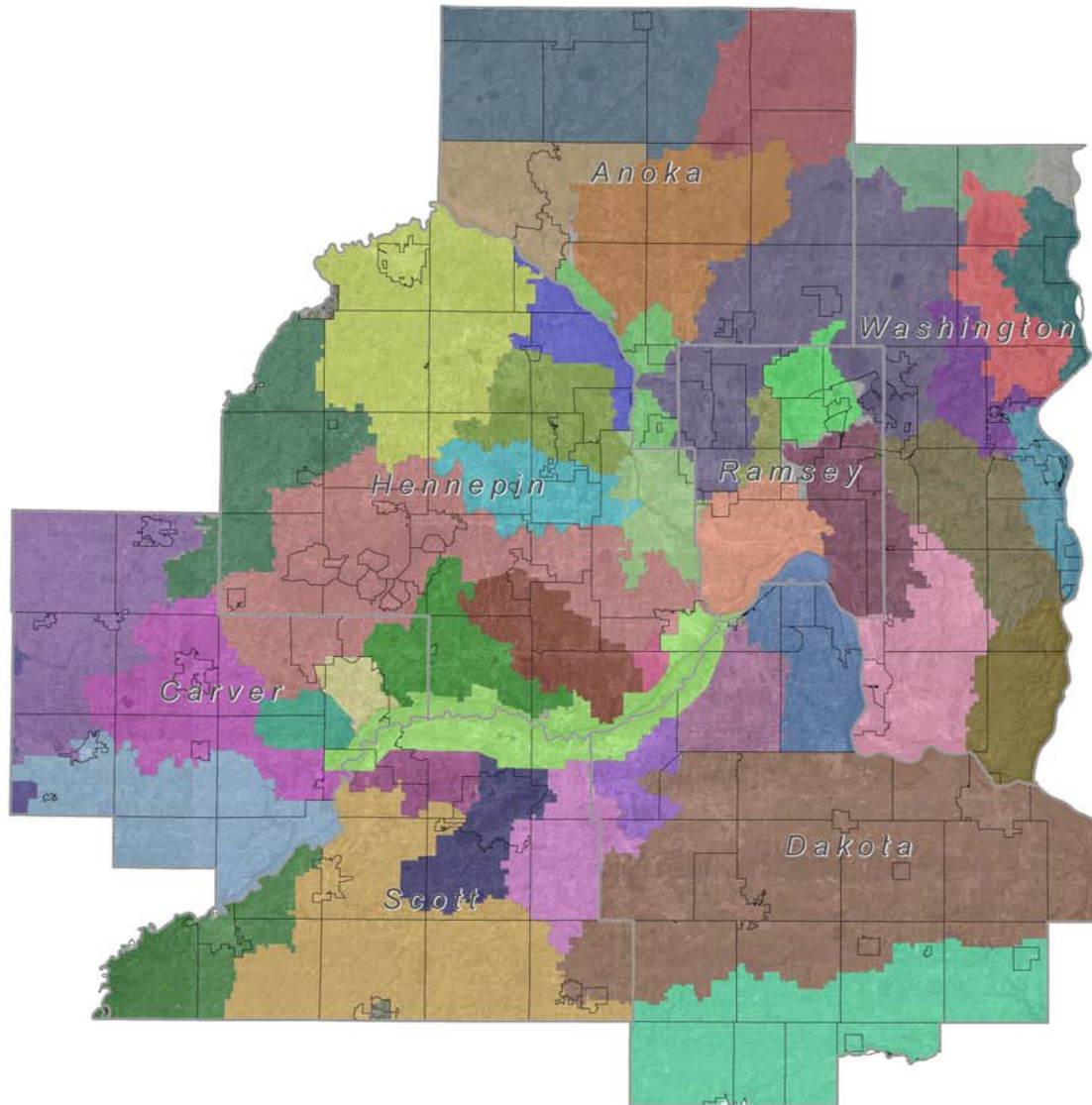
- Removal from Impaired Waters List
- Regional WQ Improvement

City of Oakdale

- Local WQ Treatment
- Improved Lake WQ

To sum up....

- Metro WMOs are mainly about flood control and surface water quality.
- They have a lot of information that may help you develop your pond inventory.
- Plan to begin working directly with your WMO today --- there could be numerous benefits to your community.



Ramsey-Washington Metro
Watershed District

METRO WATERSHED
 DISTRICTS AND
 WATERSHED MANAGEMENT
 ORGANIZATIONS
 Ramsey-Washington Metro
 Watershed District

Find your Watershed or WMO

- <http://www.mnwatershed.org/>
- <http://www.bwsr.state.mn.us/relatedlinks/WMOmap.pdf>