

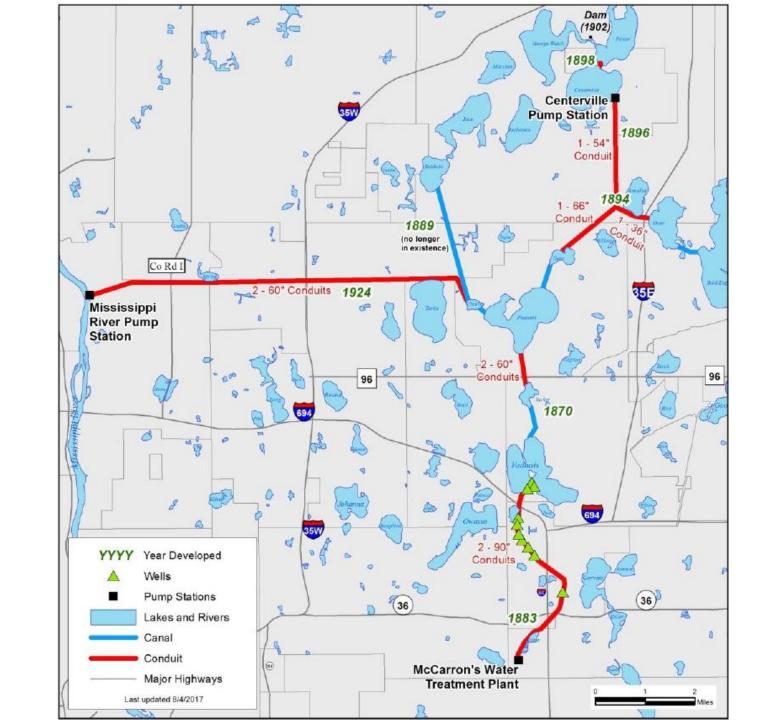
Centerville Water Supply Assessment

Determine a direction for the Centerville Water Supply System

Saint Paul Regional Water Services and Bolton & Menk Consultants

Centerville Supply System

- Built in late 1800's
- Provided water to SPRWS prior to development of Mississippi River system
- Not used in a significant degree since the 1980's









Water Quality

Infrastructure Condition

Water Quantity

Three Analysis Aspects

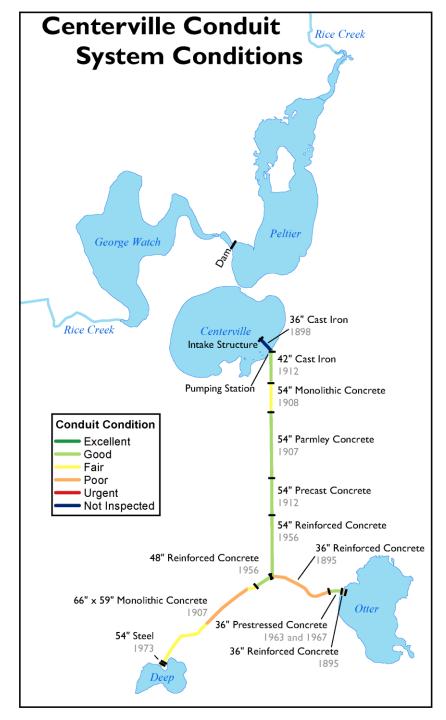


Infrastructure Condition

Assessment

Inspection of pumping stations, intake structures, conduits.





Conduit Condition

- Centerville conduit generally good condition with some rehab. needed
- Otter Lake conduit Mostly not inspectable due to water filling conduit
- Deep Lake conduit some severe deterioration, not operable at present



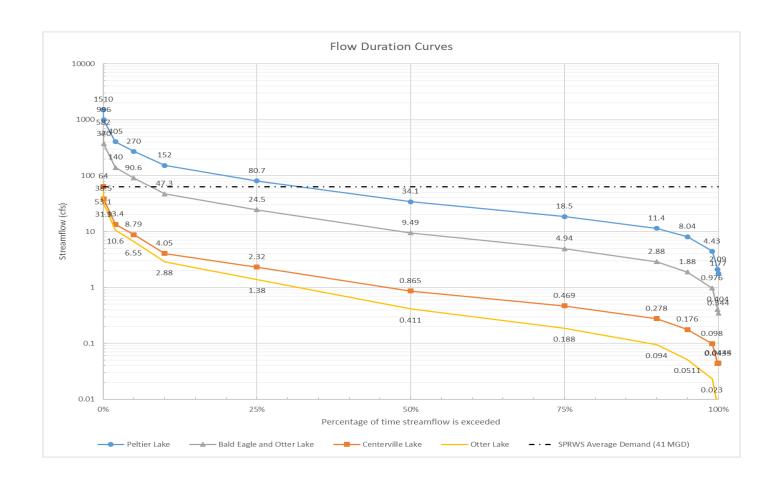


Pump Station and Intake Structure

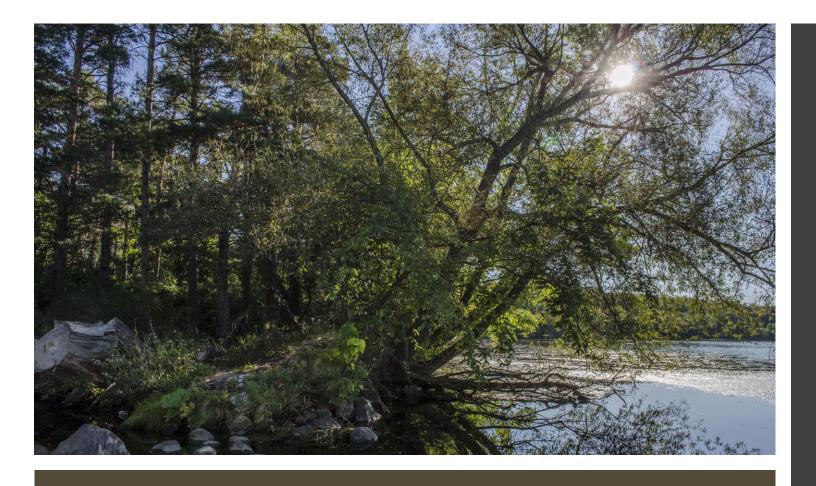
- "The motors and pumps are considered to be in good condition."
- "The electrical and control systems for the pumping station appear to be in poor condition and operationally questionable"
- "The intake structure is in poor condition..."

Available Quantity of Water Supply

 "SPRWS needs 41 MGD of raw water to satisfy the average annual demand. Although this flowrate is always available in the Mississippi River, it is only available in Rice Creek at Peltier 32% of the time."



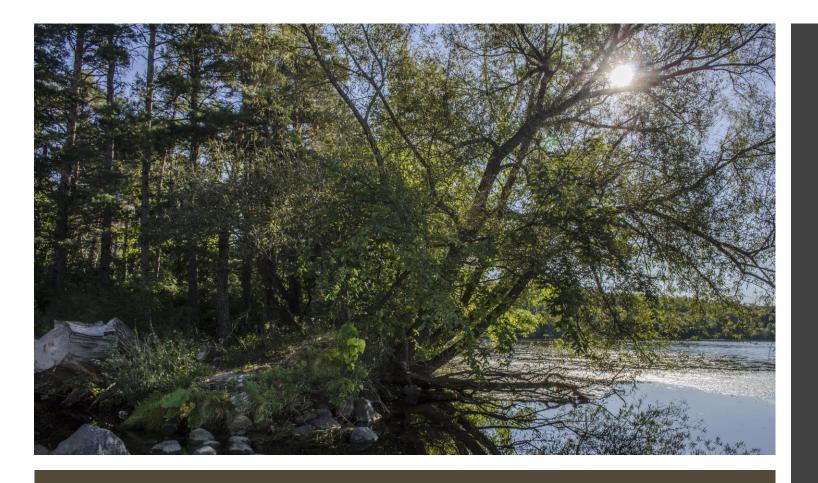




Restore vs Decommission

- Cost to make Centerville Lake system operational: \$19M
- Cost to decommission the Centerville source: \$2.6M
 - Station & Intake: \$276k
 - Centerville Conduit: \$1.1M
 - Otter Lake Conduit: \$515k
 - Deep Lake Conduit: \$763k





Value in this historical Centerville source relative to the Boards overall supply infrastructure

Input and comments from the Board with final recommendation in July

Moving Forward...