



Capitol Region Watershed District

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Citizen Advisory Committee Annual Summer Watershed Tour Wednesday, June 8, 2016 – 5:30 p.m.

CAC Members Present:

David Arbeit
Bill Barton
Pat Cavanaugh
Steve Duerre
Claudia Hochstein
Mike MacDonald
Rick Sanders
Michelle Ulrich
Richard Weil
Gwen Willems

Others Present:

Joe Collins, CRWD Board
President
Hallie Finucane, RWMWD
Bob Fossum, CRWD
Belinda Gardner, CRWD
Forrest Kelley, CRWD
Michelle Sylvander, CRWD
Mary Texer, CRWD Board
Seitu Jones, CRWD Board

Members absent:

Nicole Soderholm, w/notice
Kathryn Swanson, w/notice

Citizen Advisory Committee Annual Summer Watershed Tour

1) Arrive 5:40 – Curtiss Pond Improvement Project, Bob Fossum

1551 Iowa Ave Parking area just west of Iowa Ave and Arona St intersection, Falcon Heights

In 2014, CRWD in partnership with the City of Falcon Heights constructed a large underground detention and infiltration facility adjacent to Curtiss Pond under the ball field. This project increases storage area for floodwaters and increases the footprint of infiltration while delivering water to best soils for infiltration on the site. Additionally, the inlet structure of the facility included an automated valve system that allows the pond to be drawn down prior to heavy rainfall to provide more flood storage. This system is automated and decisions to open the valve are based on real-time forecasts continually accessed from the National Weather Service. The constructed system includes 390' of 10-ft. perforated pipe that stores and infiltrates floodwater.

Leave Curtiss Pond at 6:10

2) Arrive 6:20 – Victoria Street Wetland, Forrest Kelley

1971 Victoria St., Roseville

In order to complete a 2015 project that reconstructed Victoria Street and extended the pedestrian path from the Cemetery north to County Road B, a small amount of permanent wetland fill was

determined to be unavoidable. In order to create new wetland to replace the loss of wetland at a 2:1 ratio, the City of Roseville and CRWD partnered to purchase a 1.6 acre parcel of land adjacent the existing wetlands.

Leave Victoria Street Wetland at 6:35

3) Arrive 6:45 - Upper Villa Park Stormwater Improvement Project, Forrest Kelley

B-Dale Club, 2100 North Dale St, Roseville

In 2012, CRWD was awarded a \$275,000 grant from MPCA to design and construct volume reduction BMPs within the Lake McCarrons Subwatershed. An additional \$360,000 grant was provided by BWSR to combine stormwater harvest and reuse with infiltration to protect Lake McCarrons and the Villa Park Wetland System. Construction of the 60,000 cubic foot infiltration pipe gallery and 13,000 cubic foot concrete cistern started in November of 2015 and was substantially completed in December. The system captures runoff from the 250 acre drainage area and utilizes the real time adaptive controls to monitor water levels in the cistern and irrigate the softball field behind the B-Dale Club.

Leave Upper Villa at 7:25

4) Arrive 7:30 – Villa Park North Wetland Restoration Project, Forrest Kelley

View from Upper Villa Park Trails, Roseville

The Roseville Parks Department has initiated a vegetation restoration project throughout the city. CRWD provided a \$22,400 grant to complete a wetland restoration project within the Northern portion of Villa Park. The goals are to provide additional hydrology to a previously drained and farmed wetland by removing drain tile, and installing a series of ditch checks. The City also removed invasive buckthorn and will restore native wetland vegetation.

Leave Upper Villa Wetland at 7:40

5) Arrive 7:45 - Mueller Bies Funeral Home Permit Site, Forrest Kelley

2130 North Dale St, Roseville

The Mueller-Bies Funeral Home parking lot expansion required a CRWD Stormwater Management Permit due to its location adjacent to the Villa Park Wetland. In order to treat runoff from the 8,000 square foot parking lot expansion, the applicant constructed a small raingarden to filter the water prior to discharge to the open channel that drains into Villa Park.

Leave Mueller-Bies at 7:55

6) Arrive 8:00 - Villa Park Improvements, Bob Fossum

View from Villa Park Overlook 445 N. McCarrons Blvd, Roseville

In 2009, Capitol Region Watershed District (CRWD) completed the Villa Park Wetland Management Plan that identified multiple projects/solutions to dealing with the elevated phosphorus loads that were entering Lake McCarrons in Roseville. The project goal is accomplished by the following project objectives:

- Remove 17,360 cubic yards of sediment from Wet Pond, Wet Cell 5, and Wet Cell 1.
- Dewater the sediment through the use of 3,005' of 60-ft. diameter geotextile tubes.
- Improve residence time by creating additional storage in each of the basins.
- Increase phosphorus removal by an estimated 118 lbs/yr

The project was completed during the summer of 2013 by CRWD through hydraulic dredging methods and dewatering through geotextile tubes in partnership with the City of Roseville at a construction cost of \$1.2

“Our mission is to protect, manage, and improve the water resources of the Capitol Region Watershed District.”

million. The sediment removed had high levels of polycyclic aromatic hydrocarbons (PAHs) and arsenic which required disposal of about two-thirds of the sediment in a landfill.

Leave Upper Villa at 8:15, return to office around 8:30

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