



Minnesota Association of Watershed Districts
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2018 MAWD Project of the Year

Upper Villa Stormwater Reuse and Infiltration Project Capitol Region

CRWD obtained two State grants and partnered with the City of Roseville to construct a 60,000-ft³ underground infiltration system combined with a 13,000-ft³ cistern that harvests stormwater for irrigation of a high-use softball field at Upper Villa Park in Roseville, MN. The project protects degrading water quality within Lake McCarrons, a high-value recreational lake by capturing runoff and filtering pollutants. In addition to removing 45 pounds of TP/yr, the system will save up to 1.3 million gallons of drinking water by using rainwater to irrigate the softball field in the park. The system uses real-time technology to manage water levels in the cistern. Prior to storms, software programmed to communicate with weather forecasts and sensors within the cistern open an automated valve to drain water into the underground infiltration pipes and capture more stormwater. The valve closes after the storm and fills the cistern to provide water for irrigation.



From Left: Mark Doneux, Joe Collins, Bob Fossum, Emily Javens, Forrest Kelley, Britta Belden, Andy Novak, Elizabeth Hosch, Joe Sellner, Mary Texer, Sarah Wein, Lindsay Schwantes, Mark Houle, Shirley Reider, Nate Zwonitzer, Seitu Jones