



CITIES OF ANOKA AND RAMSEY

STORMWATER RETROFIT ANALYSIS

Target Waterbody: Rum River

The purpose of this project is identify and rank projects that will improve stormwater quality discharged to the Rum and Mississippi Rivers. The final report will detail potential projects, costs, pollutant reductions, and an overall cost effectiveness ranking of all projects. It will provide information sufficient to prioritize expenditures and apply for project installation grants.

TASKS

STORMWATER RETROFIT ANALYSIS PROCESS*	
STEP AND PURPOSE	KEY TASKS
TAC Meeting 1 Kickoff and scoping	<ul style="list-style-type: none"> • Overview of process • Define core retrofitting objectives • Identify preferred retrofit treatment options • Establish focus area
Desktop Analysis Search for potential retrofit sites throughout the subwatershed	<ul style="list-style-type: none"> • Delineate subwatershed focus area • Secure GIS and other mapping • Conduct desktop search for potential retrofit sites • Prepare base maps for reconnaissance
TAC Meeting 2 Desktop review	<ul style="list-style-type: none"> • Present drainage area delineations and potential retrofits identified as part of the desktop analysis
Subwatershed Reconnaissance Investigate retrofit sites in the field	<ul style="list-style-type: none"> • Verify drainage areas and mapping data • Assess site constraints • Search for additional retrofit opportunities
Treatment Analysis/Cost Estimates Create project concepts and model for treatment potential	<ul style="list-style-type: none"> • Develop project concepts • Utilize a water quality computer model for determining pollution and volume reduction (WinSLAMM) • Develop project cost estimates
Evaluation and Ranking Compare projects throughout the subwatershed	<ul style="list-style-type: none"> • Conduct cost/removal analysis for project concepts • Rank projects by cost-effectiveness • Compare results to restoration objectives
TAC Meeting 3 Review of Complete Draft	<ul style="list-style-type: none"> • Review of the draft report
Presentation	<ul style="list-style-type: none"> • Presentation of final report

*Process modified from The Center for Watershed Protection's Urban Stormwater Retrofit Practices Manuals (2005 and 2007)

FOCUS AREA

The area of the Lower Rum River Watershed Management Organization (LRRWMO) proposed for study is shown in the maps on the following pages. Study areas will be those with limited infrastructure to treat stormwater prior to discharging into the Rum River. Final study area boundaries may be different than those proposed as needed to align with subwatersheds (topography, storm sewer pipes, etc).

City of Anoka	720 acres
City of Ramsey	<u>469 acres</u>
TOTAL	1,189 acres

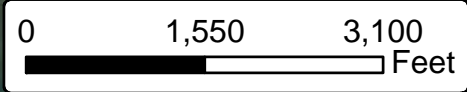
WORK PRODUCTS



- A detailed report for each city including:
 - Methods used
 - Catchment summaries including estimated pollutant and volume loads
 - Retrofit recommendations
 - Maps with identified project sites
 - Treatment analysis including estimated pollutant and volume reductions
 - Site selection guidance
 - Retrofit project ranking
- A presentation of the analysis findings (one for each city)

PARTNERSHIP BUDGET

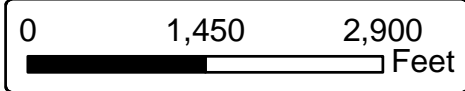
	Acres	Cost	Funding Sources			
			Conservation Districts/Clean Water Fund	LRRWMO	City of Anoka	City of Ramsey
Ramsey	469	\$7,035	\$2,367	\$789		\$3,879
Anoka	720	\$10,800	\$3,633	\$1,211	\$5,956	
	1,189	\$17,835	\$6,000	\$2,000	\$5,956	\$3,879



Anoka Stormwater Retrofit Analysis

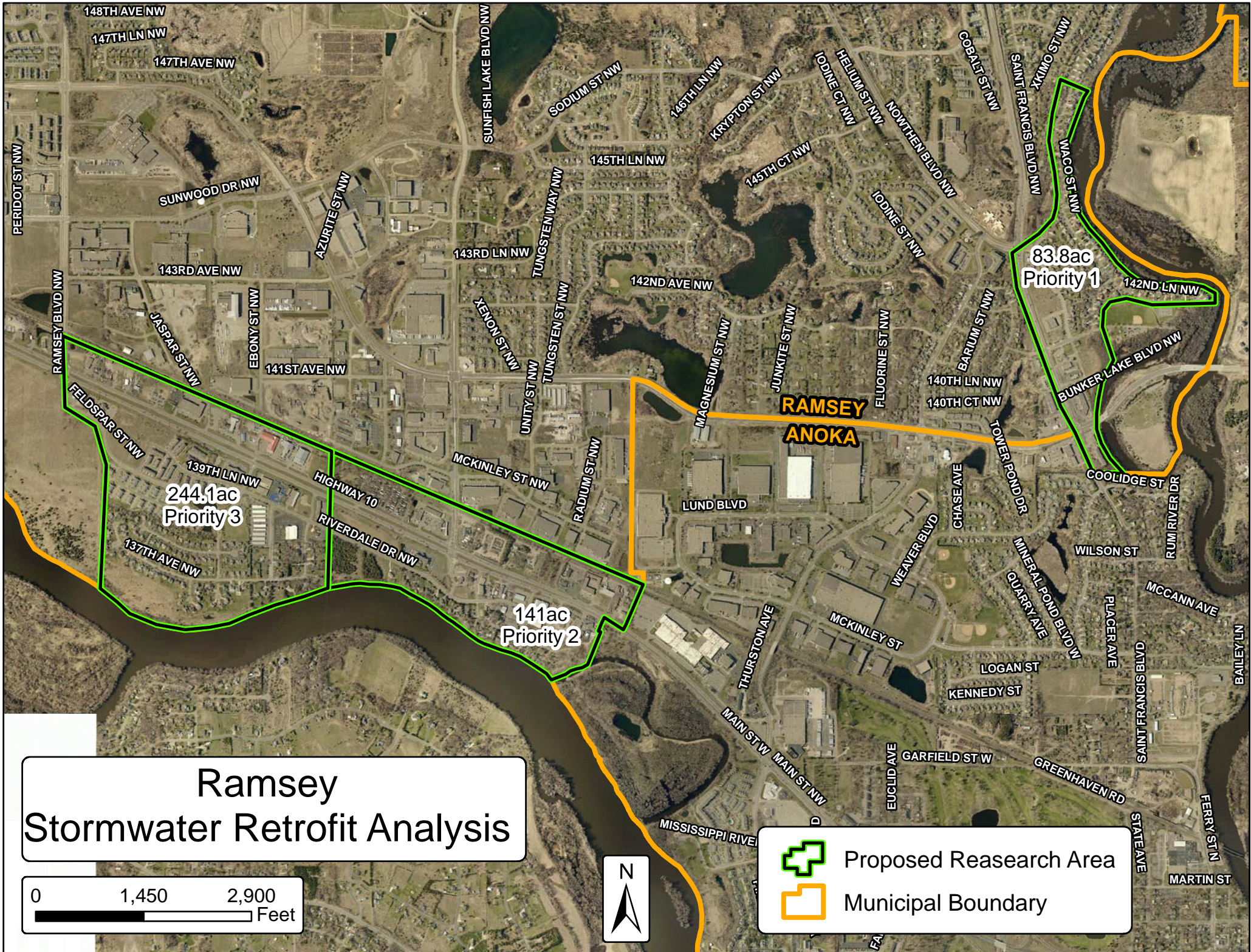


-  Proposed Research Area
-  Municipal Boundary

Ramsey Stormwater Retrofit Analysis



-  Proposed Reasearch Area
-  Municipal Boundary



244.1ac
Priority 3

141ac
Priority 2

83.8ac
Priority 1

**RAMSEY
ANOKA**

148TH AVE NW
147TH LN NW
147TH AVE NW
143RD AVE NW
141ST AVE NW
139TH LN NW
137TH AVE NW
145TH LN NW
145TH CT NW
142ND AVE NW
140TH LN NW
140TH CT NW
139TH LN NW
137TH AVE NW
SUNFISH LAKE BLVD NW
SODIUM ST NW
KRYPTON ST NW
146TH LN NW
HELIUM ST NW
NORTHERN BLVD NW
IODINE ST NW
COBALT ST NW
SAINT FRANCIS BLVD NW
KXIMO ST NW
MACOST ST NW
TUNGSTEN WAY NW
XENON ST NW
UNITY ST NW
TUNGSTEN ST NW
MCKINLEY ST NW
RADIUM ST NW
MAGNESIUM ST NW
JUNKITE ST NW
FLUORINE ST NW
BARIUM ST NW
BUNKER LAKE BLVD NW
COOLIDGE ST
RUM RIVER DR
WILSON ST
MCCANN AVE
BAILEY LN
PERIDOT ST NW
RAMSEY BLVD NW
AZURITE ST NW
JASPAR ST NW
EBONY ST NW
FELDSPAR ST NW
HIGHWAY 10
RIVERDALE DR NW
MCKINLEY ST NW
LUND BLVD
WEAVER BLVD
CHASE AVE
TOWER POND DR
MINERAL POND BLVD W
QUARRY AVE
PLAGER AVE
DANIEL FRANCIS BLVD
STATE AVE
FERRY ST N
MARTIN ST
THURSTON AVE
MCKINLEY ST
LOGAN ST
KENNEDY ST
EUCLID AVE
GARFIELD ST W
GREENHAVEN RD
SAINT FRANCIS BLVD W
FERRIS ST NW
MISSISSIPPI RIVER

ITEM G-1

EXCERPT OF MARCH 19, 2015 LRRWMO MEETING MINUTES

Subwatershed Assessment Proposal ~ ACD

Schurbon stated that a proposal was included in the meeting packet. He advised that ACD is receiving funds to complete certain studies. He highlighted an example area within the City of Anoka to complete a study of the subwatershed. He estimated the total cost to be \$10,000, noting that ACD would be able to contribute \$6,000 with the LRRWMO or City of Anoka funding the remaining \$4,000. He believed that the study could be completed in one year but noted that the funds would need to be spent by 2016.

Anderson arrived at 8:42 a.m.

Kuzma stated that he would like to see some emphasis on Ramsey because of the amount of funding Ramsey contributes.

Schurbon confirmed that the area of study does not need to be contiguous and therefore a portion of Anoka could be chosen along with a portion of Ramsey.

Haas noted that it would be nice to have that information available for future projects.

Schurbon stated that the information is also useful in the grant application process.

Yager stated that the item had not been budgeted but noted that there are some reserve funds available. She stated there would be approximately \$2,000 in reserve funds and \$2,000 in contingency funding available, noting that the remaining reserves are earmarked for the Fourth Generation Plan.

Haas stated that perhaps Anoka and Ramsey would be willing to contribute the additional \$1,000 each to round out that payment.

Kuzma stated that he would bring that issue back to his City Council.

Schurbon stated that he will work with Linton and Nelson to develop a new study area.

Nelson noted that he would also bring the item back to Anoka to determine their interest.

Schurbon believed that ACD could wait for a portion of the funds to be received in 2016, if that would be easier for some of the member cities involved.

Motion was made by Kuzma, seconded by Anderson, to table the subwatershed assessment proposal to the next meeting. Vote: 3 ayes, 0 nays. Motion carried.