



Mississippi Riverbank Stabilizations

June 30, 2020

Meeting Outline

- Meeting Purpose/Goals
- Introductions
- How Did We Get Here
- Project Need
- Description of a Typical Restoration Practice
- What We Need From You
- Scope of Work and Next Steps

Goal of Meeting:

1. Discuss a potential partnership between the City of Brooklyn Park, Hennepin County and Watershed in conducting a Mississippi River erosion assessment of private property within the City of Brooklyn Park; and
2. Creation of a Shoreline Stabilization Plan; and
3. Discuss application for a Lessard Sam's Grant to help support implementation of the Shoreline Stabilization Plan, in partnership with neighbors and the City of Brooklyn Park.



Introductions

Virtual Meeting | June 10, 2020

How did we get here?

- Request from Neighbors – at Park System Plan and River Park Redevelopment Neighborhood Meetings
- Meeting with a few Neighbors and made connections with HC Env Health
- HC identified River Corridor as a significant and critical natural area in the County

Project Need

- Bank erosion contributes to these problems:
 - Sediment loading
 - Nutrient (phosphorus) loading
 - Habitat loss
 - Property loss
- Mississippi River impaired for:
 - Sediment and Nutrients (Twin Cities & Lake Pepin)



Credits: Ramsey County (top) and MPR (bottom)

Project Need – Causes for Riverbank Erosion



Wave Action



Flooding/Sloughing

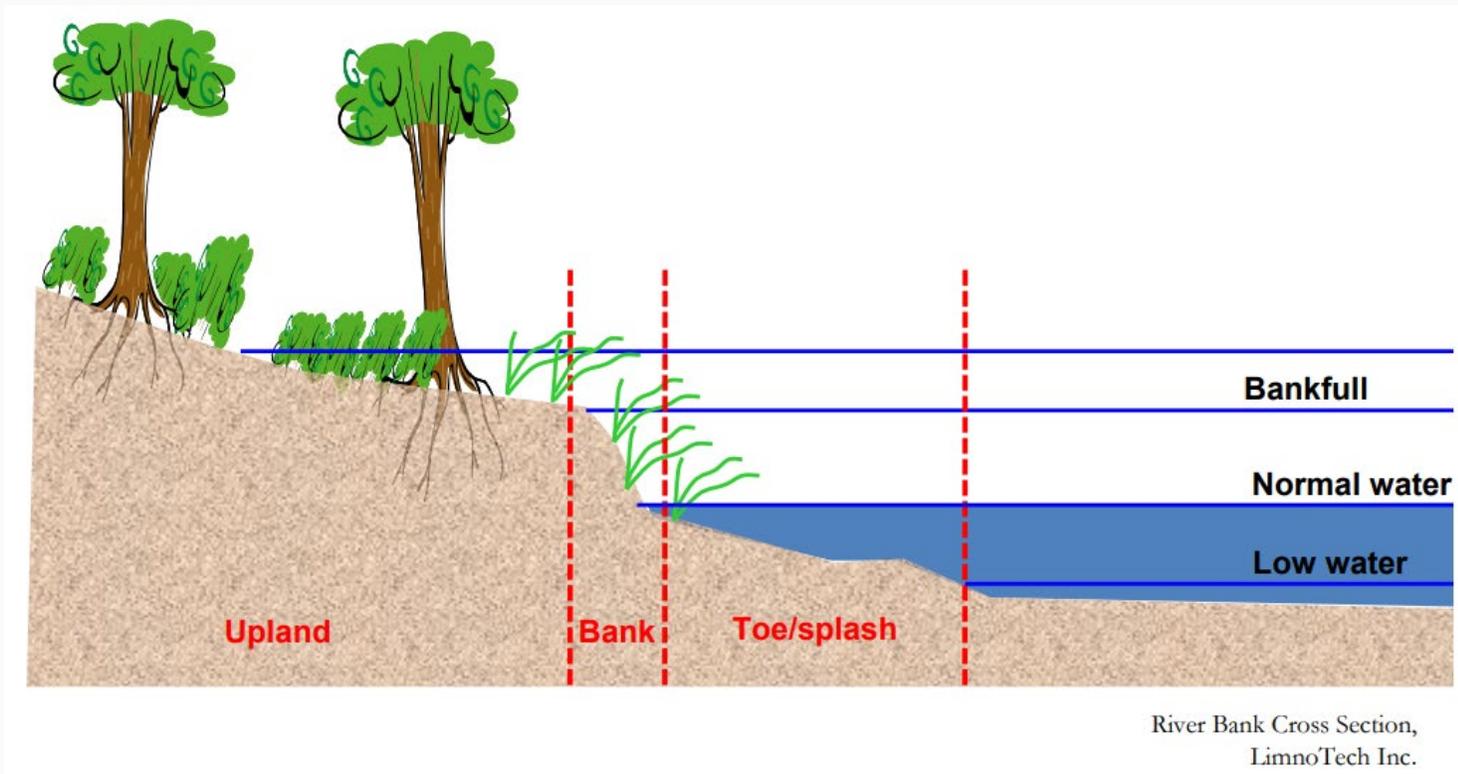
- Other factors
 - Gullies from Rainfall
 - Natural Processes

*Note: Restoration doesn't address the ROOT CAUSE
(only the symptom)*



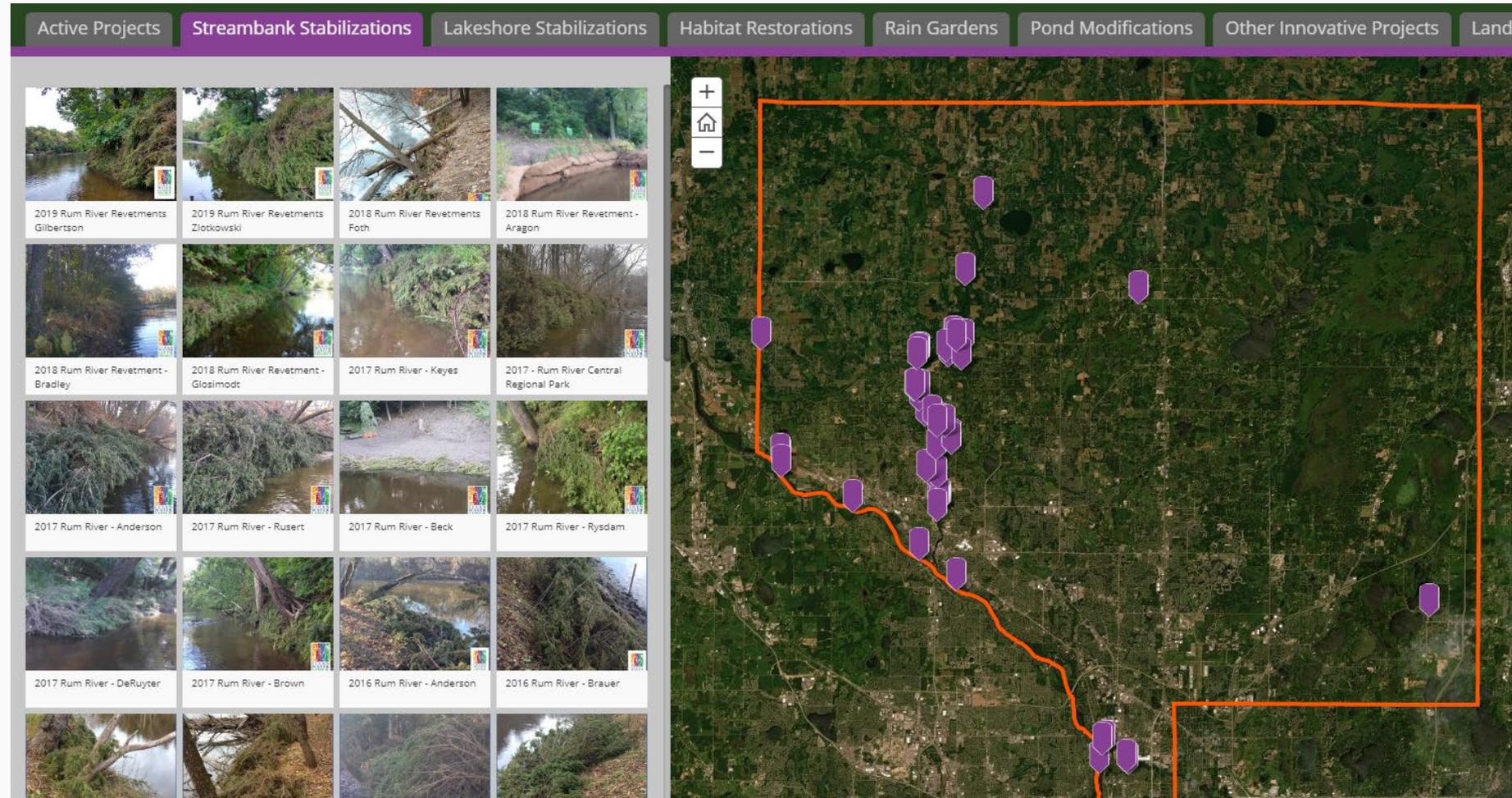
How Do We Assess Erosion?

- First: Need to determine where erosion is occurring
- Second: What is the source of erosion – will help to determine solution



Who has done it before?

- Most work has focused upstream
- Public-Private partnerships aren't new



Source: ACD (<https://www.arcgis.com/apps/Shortlist/index.html?appid=d1e76c3d808743c1b149bde24c990894>)

What Does Restoration Look Like?



January 2019

Photos: Anoka
Conservation District

Pre-project conditions

What Does Restoration Look Like?



June 2019

Riprap placement at toe of slope and bank re-grading

What Does Restoration Look Like?



June 2019

Project complete with riprap at toe of slope, vegetated reinforced soil slope (VRSS), and erosion control blanket with native seed and plugs

What Does Restoration Look Like?



August 2019

Vegetation establishment

What Does Restoration Look Like?



November 2019

Project signage

Expectations from Landowners

- In 2020
 - Permission to access property
 - Permission from gov. units (city, watershed district)
 - Signed Letter of Support

- In 2021
 - Permission to access property, survey, and complete construction
 - 10% of installation costs (following project completion)

Overview of Scope of Work

Activity	Expected Dates
Initial Outreach	June 2020
Desktop and Field Assessments and Follow-up Outreach	June – August 2020
Grant Application	August 2020
Grant Review	September – December 2020
Project Mobilization	Winter – Spring 2021
Design	Spring – Early Summer 2021
Contracting and Installation	Summer – Fall 2021
Close-out	Late Fall – Early Winter 2021

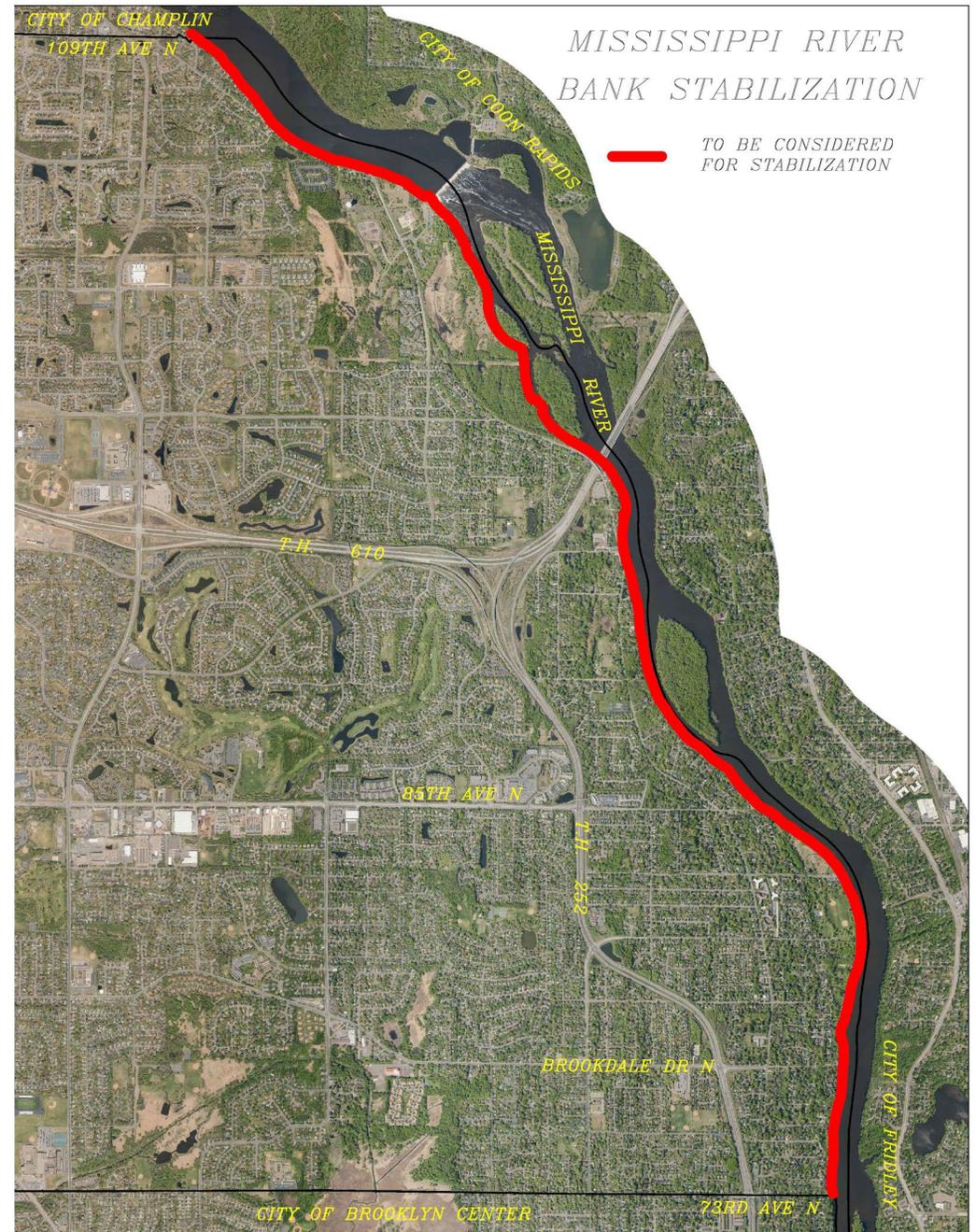
ONLY
Occurs
if we get
the
grant

Project Team

- City of Brooklyn Park (Mitch Robinson, Jody Yungers)
- Hennepin County (Kris Guentzel, Karen Galles, Kirsten Barta, Tony Brough, Kristine Maurer)
- West Mississippi River Watershed Management Commission (TBD)
- City of Brooklyn Park Neighborhood Associations (TBD)
- Contractor (Designs, Construction Oversight - TBD)
- Contractor (Construction - TBD)
- Landowners

Map of project area

- Assessment area spans complete City of Brooklyn Park riverfront
- Note: *Only area to be "assessed"*
 - Actual project locations determined based on need



Initial Outreach

- Neighborhood Meeting(s) – WELCOME!
- Begin one-on-one consultations
 - Discuss erosion issue(s) – what is primary cause and solution
 - View and take measurements/photos of riverbank
 - Discuss any other concerns on property

COVID-19 Alert: Due to precautions to limit the spread of COVID-19, PPE and 6-foot distance is mandated FOR ALL those attending site visits

Desktop and Field Assessments

Expected Dates

June - August 2020

- Desktop Analysis
 - View and make preliminary assessments of erosion using aerial images and GIS
 - Preparation for Field Assessment
 - Identification of landowners – *could use for additional outreach*
- Field Assessment
 - Watercraft survey to take photos of bank
 - Can use to:
 - Identify properties with most critical need
 - Create baseline for future monitoring
- Preliminary Engineer Assessment – development of project extent and cost for each high-priority site

Follow-up from Field Assessment

Expected Dates

June - August 2020

- Additional Outreach
 - Focusing on properties with most severe erosion
- Letter of Support from Landowners
 - No money down
 - No legal commitment – just in good faith

Grant Application and Review

Expected Dates

August – September 2020

- Current Funding Sources
 - Brooklyn Park (\$30-40K)
 - Hennepin County (\$30-40K)
 - Landowners (10% installation costs on property)
- Expected Projected Costs - \$500K-\$1M
- Will fill the gap with a State of MN Clean Water Legacy Grant
- Communication with landowners on engineer's report
- Applications typically open August-September
- Application decision typically comes in December

Note: We MUST have this grant funding to complete the project next year!



Project Mobilization and Design

- Coordination with Grant Funder (BWSR)
- Reach out again to landowners
 - Additional outreach if necessary
- Complete project designs
 - Will require survey work on each site
 - Design sheet prepared for each site

Expected Dates

Winter – Early Summer 2021

Only Completed With Grant Funding

Contracting, Installation, and Close-out

- RFQ to contractors
- Identify contractor
- Construction likely to take 2-3 months across all projects
- Close-out could easily extend into Spring 2022

Expected Dates

Summer – Early Winter 2021

Only Completed With Grant Funding

Next Steps

- Meeting video will be available on-line via City Website
- Fill out permission form
- Schedule a site visit (July 9th - 10th)!

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