The background is a light blue-tinted map of an urban area. It shows a grid of streets, a winding river or canal, and several green spaces or parks. The map is detailed but faded, serving as a backdrop for the text.

THE WHOLE IS GREATER THAN THE SUM OF THE PARTS

Creating an East Side Vision

GREAT RIVER PASSAGE

THE EAST SIDE RIVER DISTRICT



Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye

EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

SAINT PAUL PARKS AND RECREATION DESIGN AND CONSTRUCTION

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

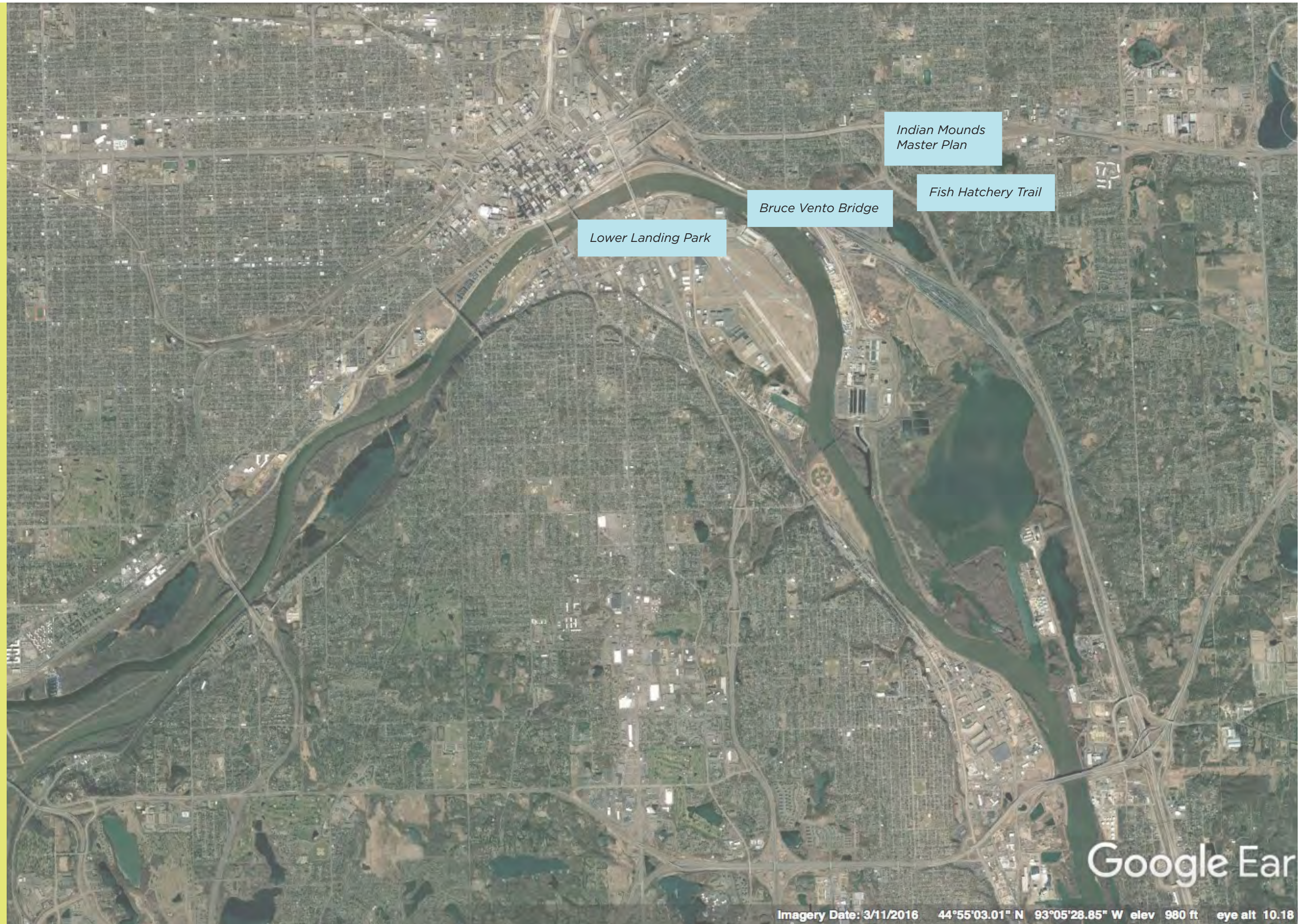
Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

**LOWER PHALEN CREEK
PROJECT**

DNR

Ramsey County

Met Council

Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

RAMSEY COUNTY

Met Council

Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

MET COUNCIL

Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

**SAINT PAUL PORT
AUTHORITY**

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

Saint Paul Port Authority

**NATIONAL PARK
SERVICE**

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

Saint Paul Port Authority

National Park Service

MPCA

Saint Paul Parks and
Recreation Environmental
Services

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

Saint Paul Port Authority

National Park Service

MPCA

**SAINT PAUL PARKS
AND RECREATION
ENVIRONMENTAL
SERVICES**

Mississippi Parks
Connection



EAST SIDE RIVER DISTRICT PARTNERS & PROJECTS

14 June 2018

Saint Paul Parks and
Recreation Design and
Construction

Lower Phalen Creek
Project

DNR

Ramsey County

Met Council

Saint Paul Port Authority

National Park Service

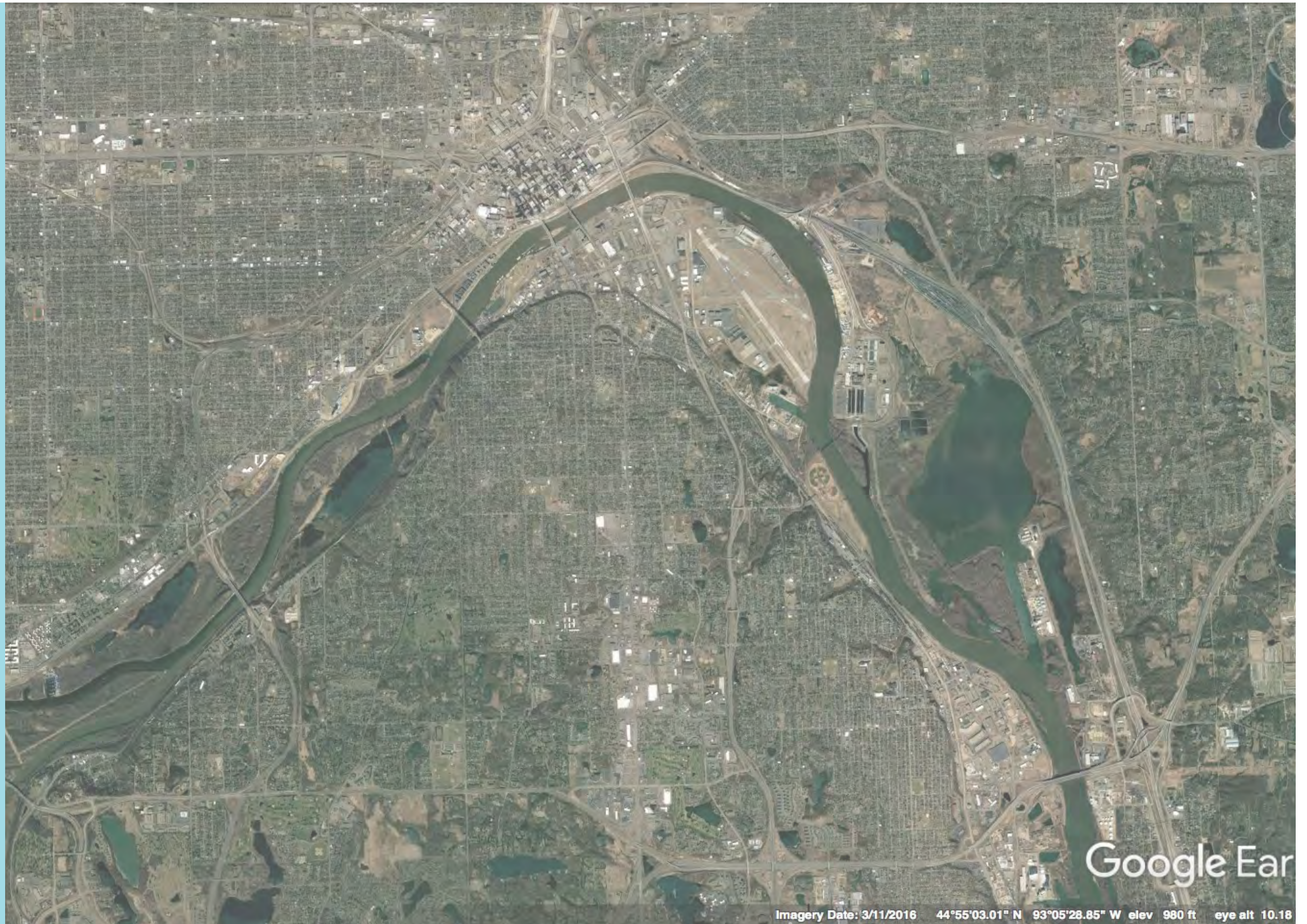
MPCA

Saint Paul Parks and
Recreation Environmental
Services

MISSISSIPPI PARKS
CONNECTION



A MOSAIC OF MASTER PLANS



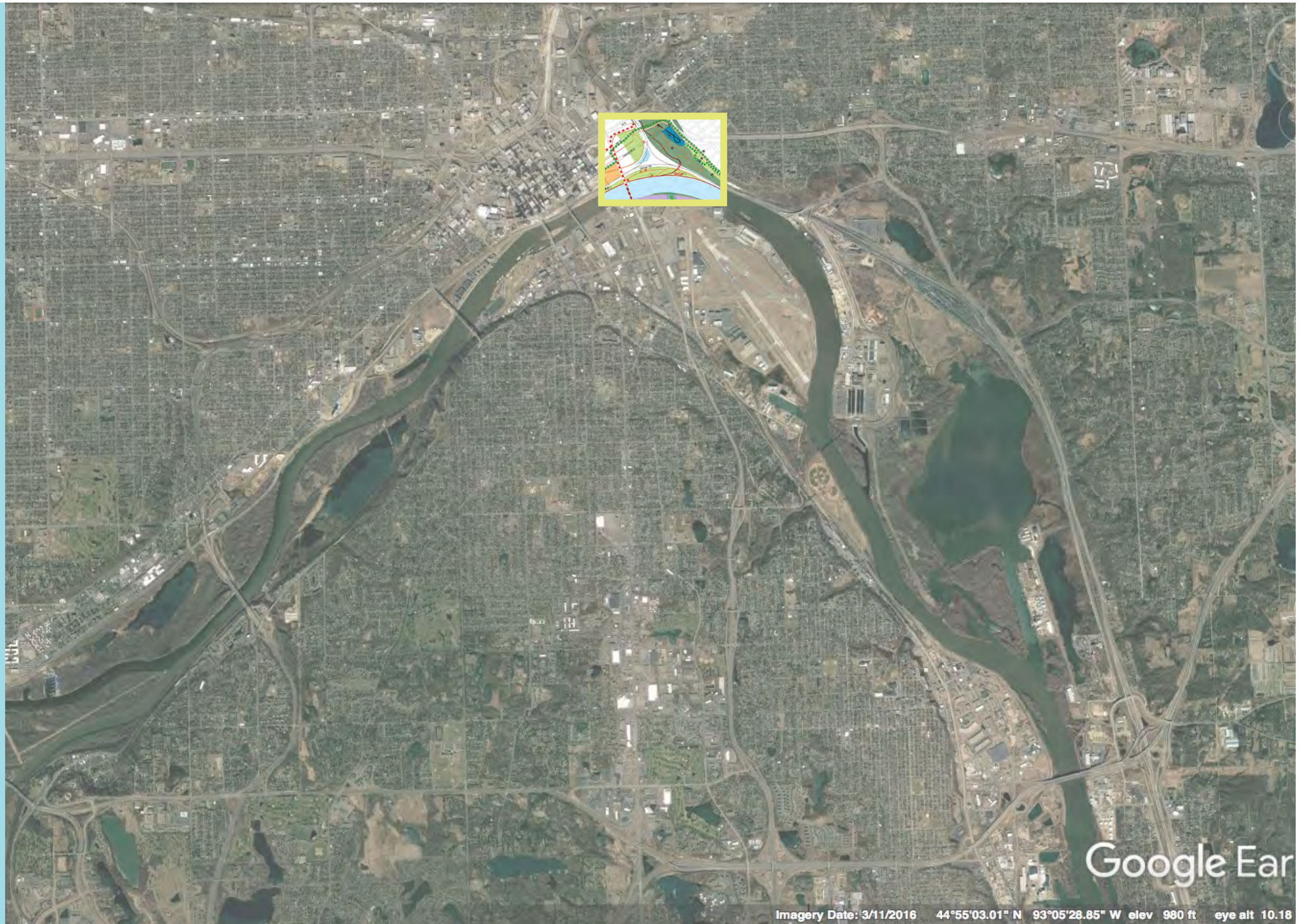
Google Earth

Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18



A MOSAIC OF MASTER PLANS

LOWER LANDING



Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18



A MOSAIC OF MASTER PLANS

Lower Landing

INDIAN MOUNDS



Google Earth

Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18

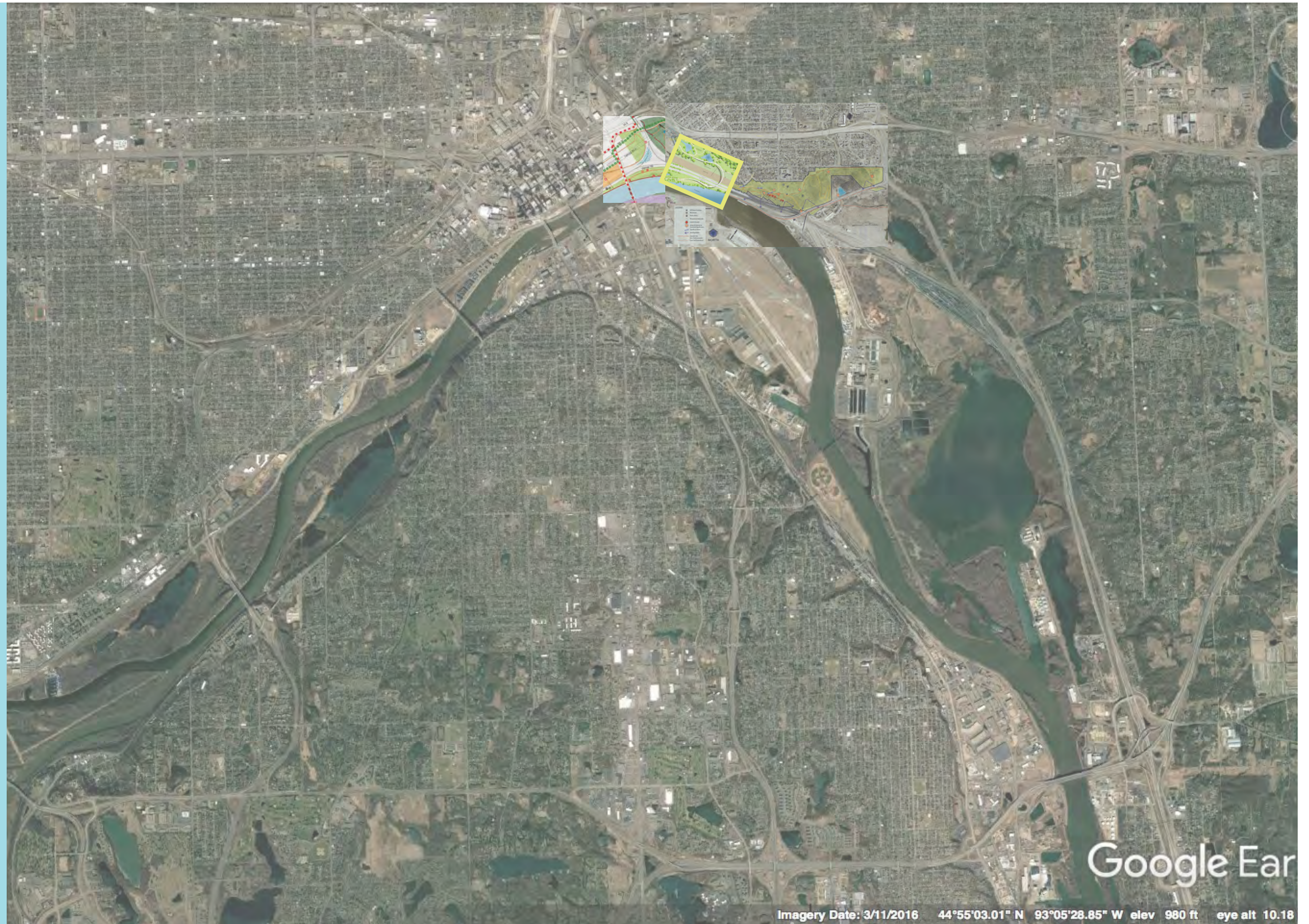


A MOSAIC OF MASTER PLANS

Lower Landing

Indian Mounds

BRUCE VENTO BRIDGE



A MOSAIC OF MASTER PLANS

Lower Landing

Indian Mounds

Bruce Vento Bridge

WAKAN TIPI CENTER



A MOSAIC OF MASTER PLANS

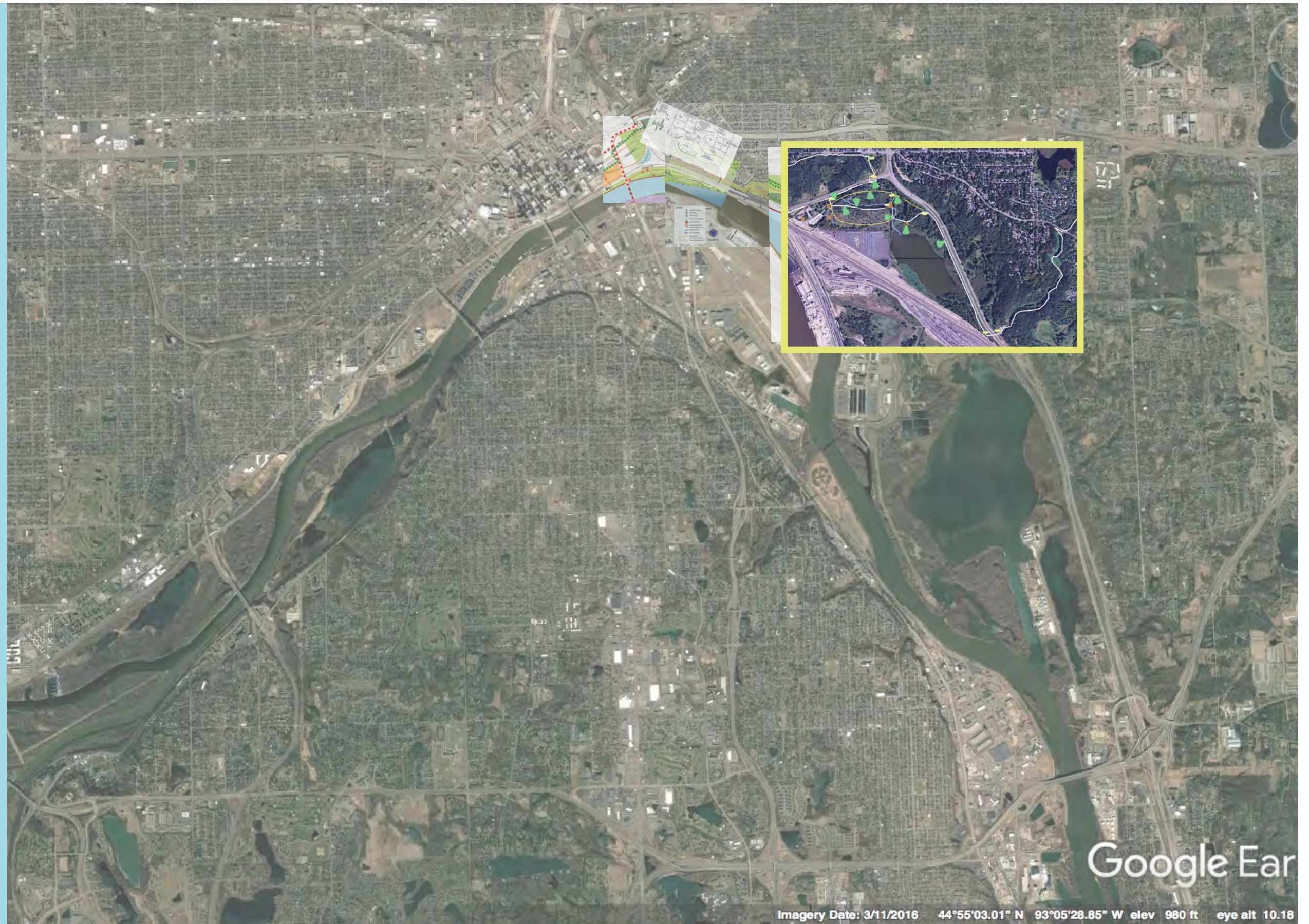
Lower Landing

Indian Mounds

Bruce Vento Bridge

Wakan Tipi Center

**DNR WILLOWBROOK
HEADQUARTERS**



A MOSAIC OF MASTER PLANS

Lower Landing

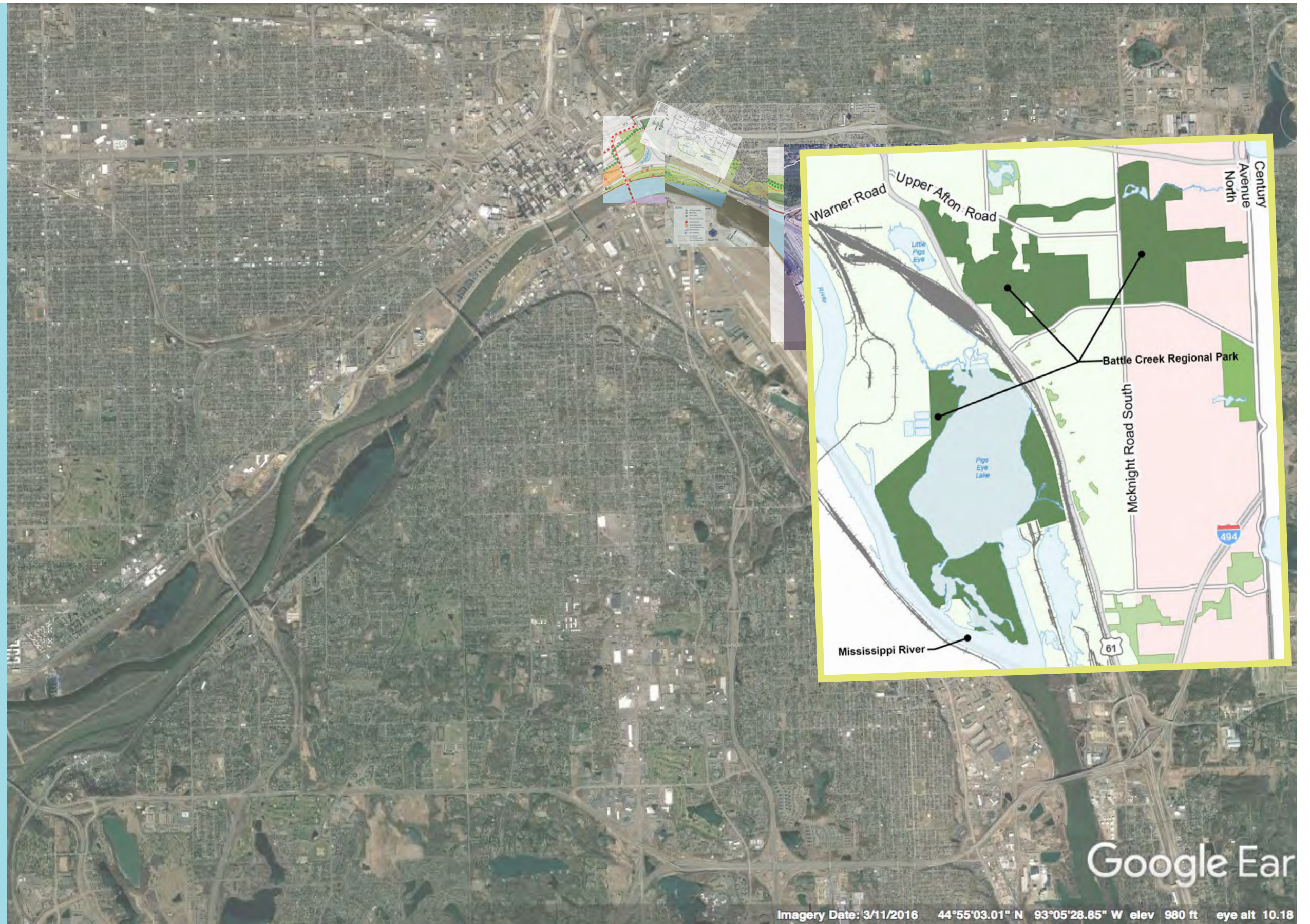
Indian Mounds

Bruce Vento Bridge

Wakan Tipi Center

DNR WillowBrook
Headquarters

**BATTLE CREEK MASTER
PLAN**



Imagery Date: 3/11/2016 44°55'03.01" N 93°05'28.85" W elev 980 ft eye alt 10.18



A MOSAIC OF MASTER PLANS

Lower Landing

Indian Mounds

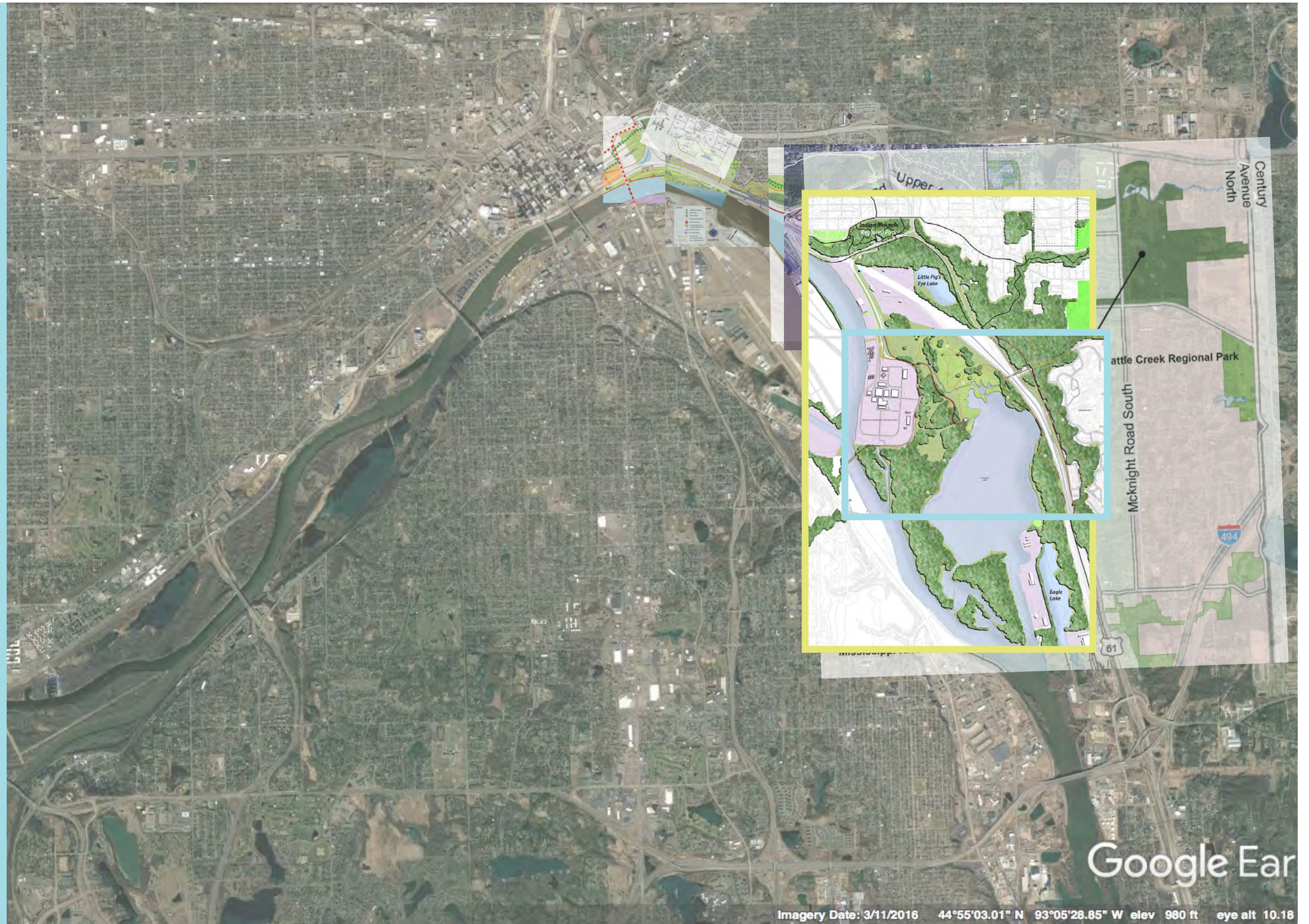
Bruce Vento Bridge

Wakan Tipi Center

DNR WillowBrook
Headquarters

Battle Creek Master Plan

**SPPR PIG'S EYE ENTRY &
TRAIL AND HIGHWOOD
BLUFFS PLAN**



A MOSAIC OF MASTER PLANS

Lower Landing

Indian Mounds

Bruce Vento Bridge

Wakan Tipi Center

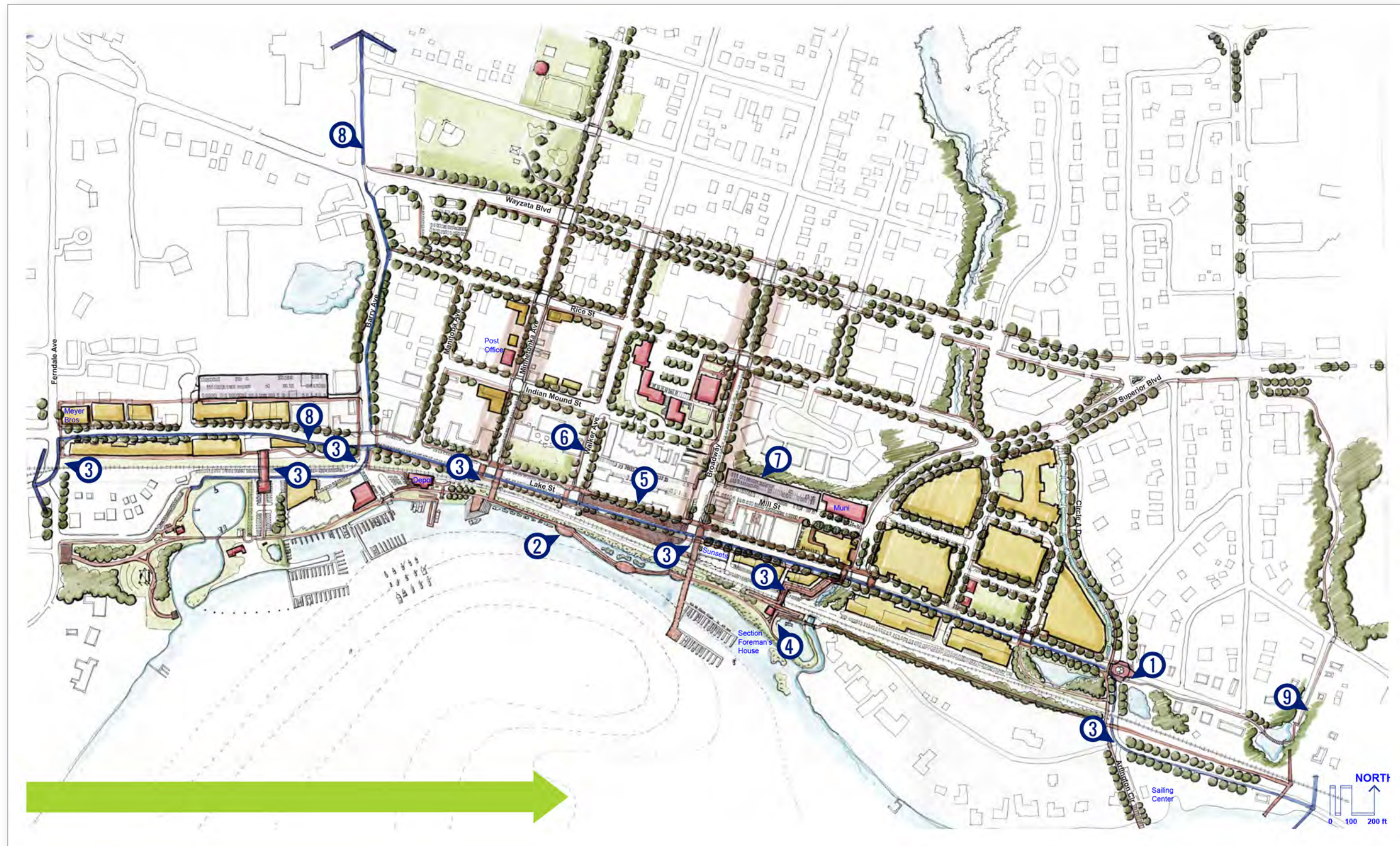
DNR WillowBrook
Headquarters

Battle Creek Master Plan

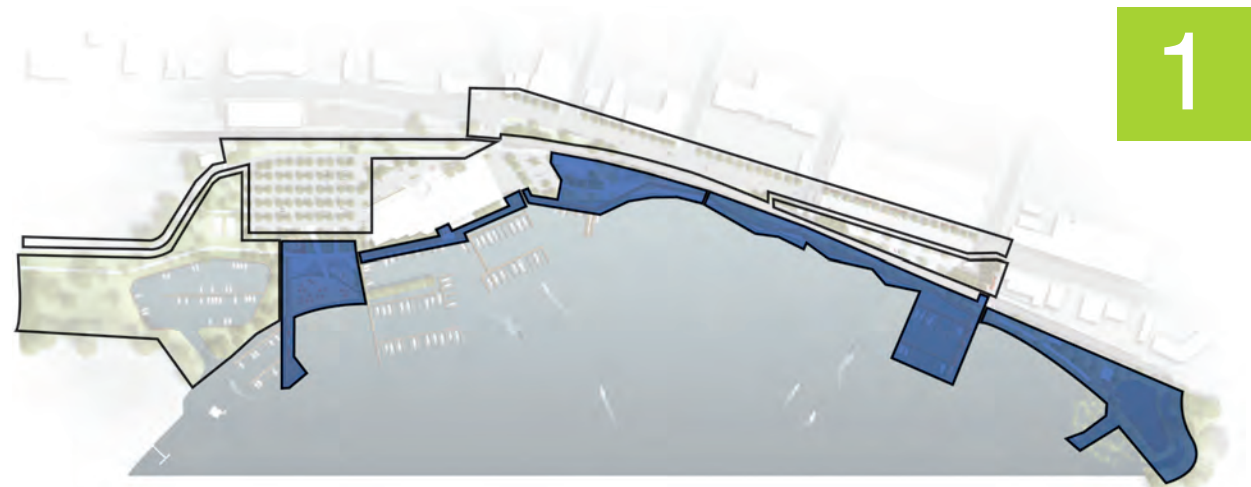
SPPR Pig's Eye Entry &
Trail and Highwood Bluffs
Plan

PIG'S EYE ISLANDS









phase 1

1.1 – LAKE WALK	\$3,274,000
1.2 – DEPOT PARK	\$1,650,000
1.3 – BOAT WORKS	\$ 543,000
1.4 – WAYZATA BEACH	\$3,498,000
1.5 – ECO PARK	\$ 905,000
1.6 – ENHANCED RAIL CROSSINGS	\$ 540,000
CONTINGENCY (15%)	\$1,500,000

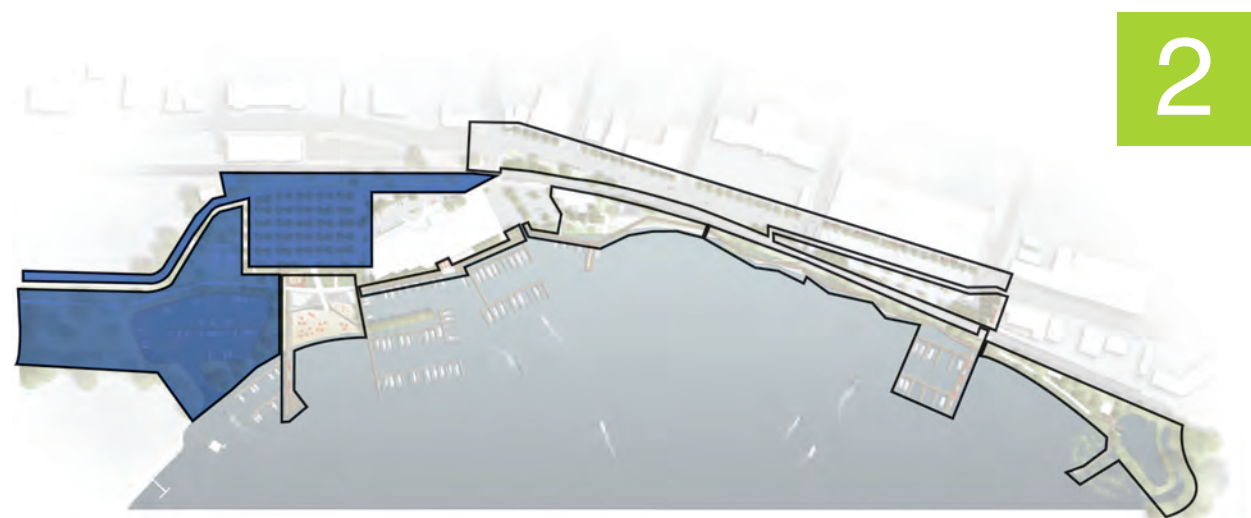
PHASE 1 TOTAL **\$11,910,000**



phase 1a

1A.1 – LAKE STREET	\$1,880,000
1A.2 – LAKE STREET PLAZA	\$1,350,000
CONTINGENCY (15%)	\$ 485,000

PHASE 1A TOTAL **\$3,715,000**



phase 2

2.1 – SHAVER PARK	\$1,705,000
2.2 – PARKING AND ROADWAY	\$ 850,000
2.3 – WALKER STREET CROSSING	\$ 390,000
CONTINGENCY (15%)	\$ 440,000

PHASE 2 TOTAL **\$3,395,000**

total all phases **\$19,020,000**

PROJECT GOALS

- Connection
- Orientation
- Destination
- Identity

PROJECT GOALS

- Connection
- Orientation
- Destination
- Identity

SCHEMATIC DESIGN PROCESS: \$600,000

- Determine Partnership and Funding Sources
- Select Design Team
- 6-9 Month Design Process

PROJECT GOALS

- Connection
- Orientation
- Destination
- Identity

SCHEMATIC DESIGN PROCESS: \$600,000

- Determine Partnership and Funding Sources
- Select Design Team
- 6-9 Month Design Process

DESIGN DELIVERABLES

- Vision
- Phasing and Leadership
- Cost Estimates
- Funding Strategy

PROJECT GOALS

- Connection
- Orientation
- Destination
- Identity

SCHEMATIC DESIGN PROCESS: \$500,000

- Determine Partnership and Funding Sources
- Select Design Team
- 6 Month Design Process

DESIGN DELIVERABLES

- Vision
- Phasing and Leadership
- Cost Estimates
- Funding Strategy

PARTNERS

- City of Saint Paul
- DNR
- Ramsey County
- Met Council
- Lower Phalen Creek Project
- MN Indian Affairs Council
- MPCA
- Saint Paul Port Authority
- National Park Service
- ACOE
- Private businesses

GreatRiverPassage.org

contact@GreatRiverPassage.org



Pig's Eye and Fish Hatchery Dumps: An Update

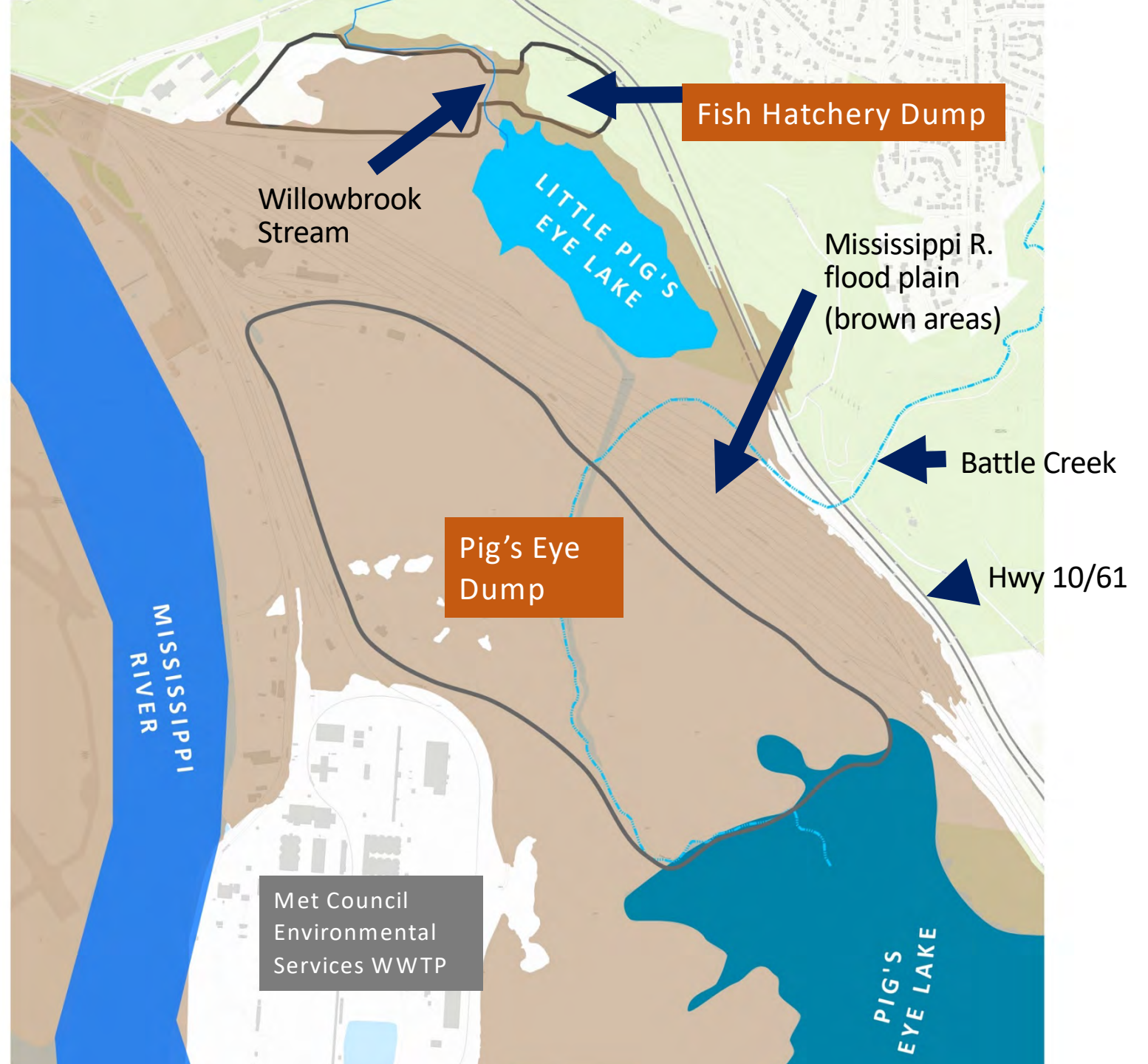
Michele Mabry, P.G.

Superfund Project Manager/Hydrogeologist

Minnesota Pollution Control Agency

June 14, 2018

Pig's Eye Neighborhood



Pig's Eye Dump

- Largest Unpermitted Dump in Minnesota (Approx. 230 Acres)
- 8.3 Million Cubic Yards of Municipal, Commercial, and Industrial Waste
- Operated 1956-1972



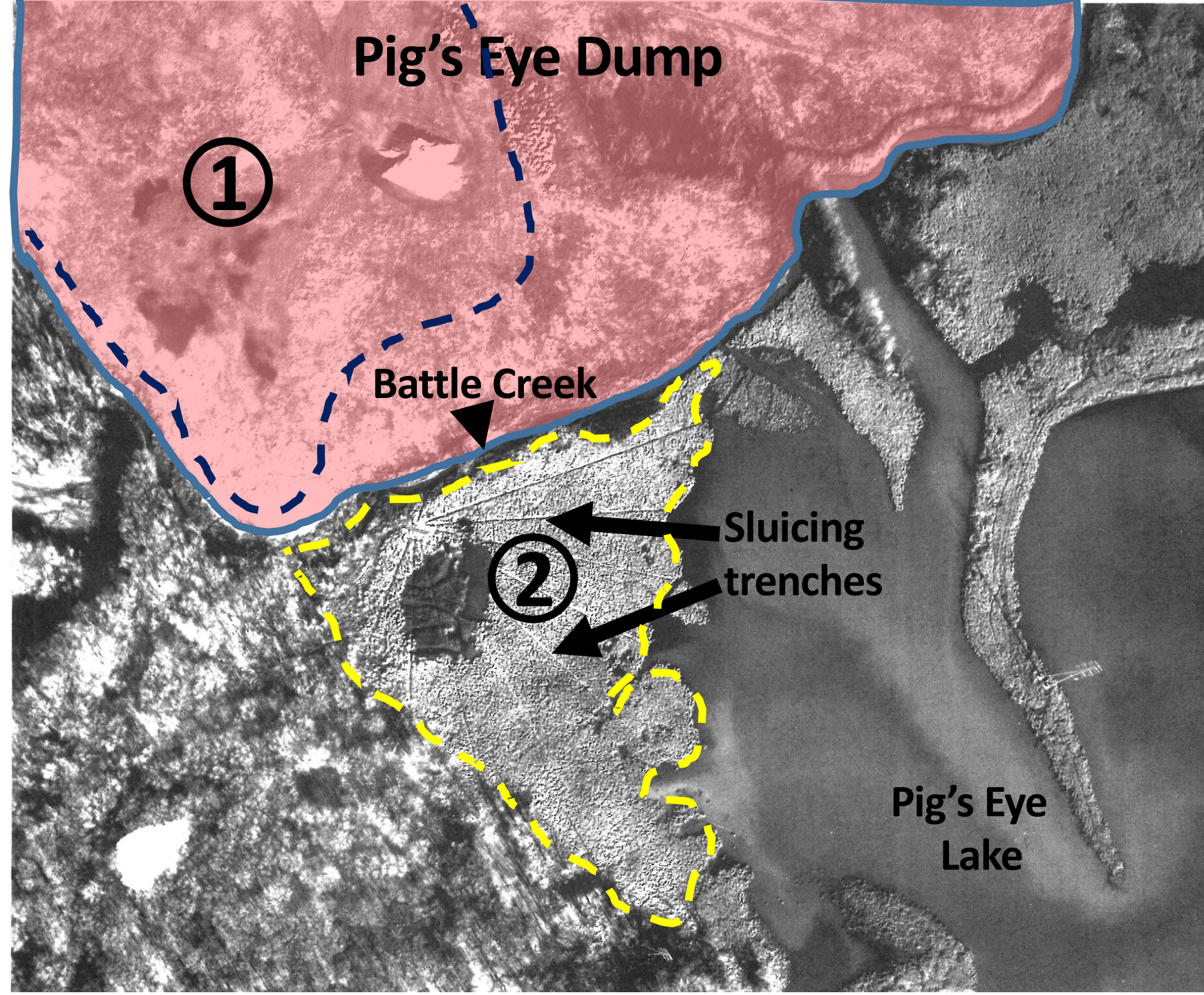
Fish Hatchery Dump

- Unpermitted Dump (38 Ac.)
- 690,000 Cubic Yards Mun., Comm. and Indust. Waste
- Operated 1930's-1971



Metropolitan Council Environmental Services WWTP

1. Permitted sewage sludge ash disposal on 31 acres (1977-1985)
2. Sluicing operations conveyed wastewater to Pig's Eye Lake



Old dumps near water

How unlined waste disposal sites leach chemicals into the environment.

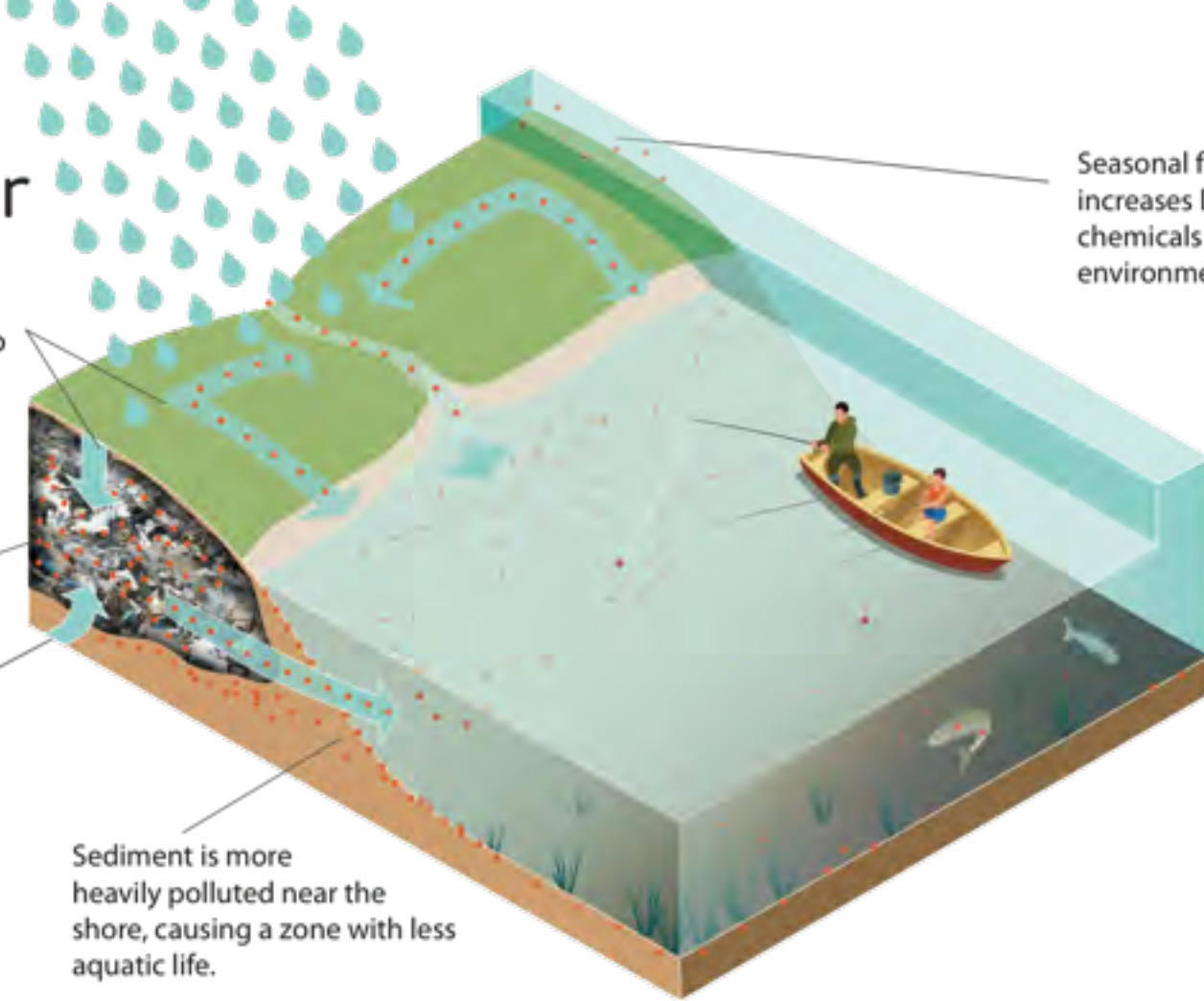
Rain soaks into the dump and also gets into streams and river

Seasonal flooding increases leaching of chemicals into the environment.

Before laws prohibited the practice, waste from industry and homes was buried in unlined holes, often near water.

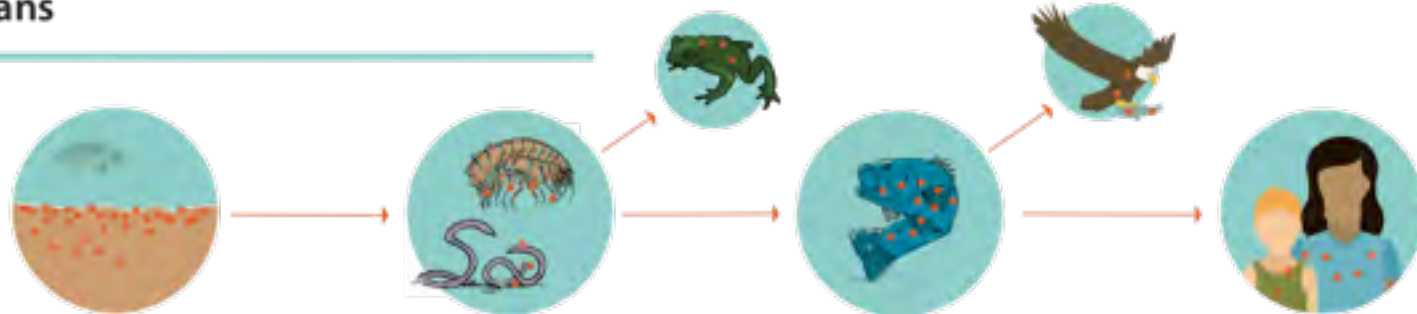
Groundwater seeps in and out of the buried waste, leaching contamination as it goes.

Sediment is more heavily polluted near the shore, causing a zone with less aquatic life.



From polluted sediment to humans

Some chemicals can be taken up by plants and animals and accumulate as they move up the food chain.



2018 Spring Flood at Pig's Eye Dump



What's been done so far?

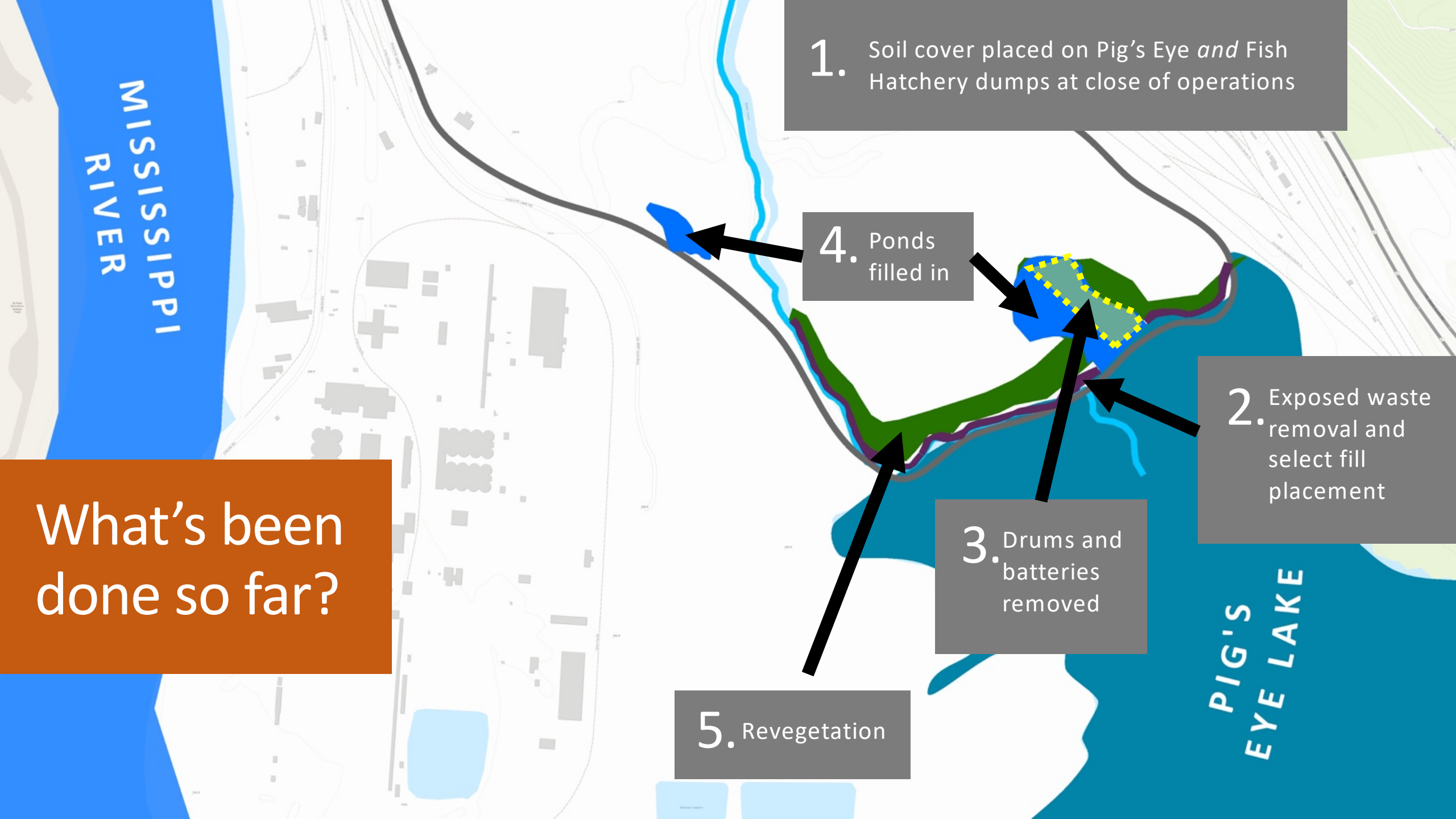
1. Soil cover placed on Pig's Eye and Fish Hatchery dumps at close of operations

4. Ponds filled in

2. Exposed waste removal and select fill placement

3. Drums and batteries removed

5. Revegetation



Soil cover placement

- 1972 (original)
- 2001-2002 and 2003-2005 (augments)



Drum and battery removal (2001-2002)

Contaminants of Concern:

- VOCs
- SVOCs
- Metals
- Mercury
- PCBs
- PFCs
- Dioxins/Furans
- Pesticides (Fish Hatchery)



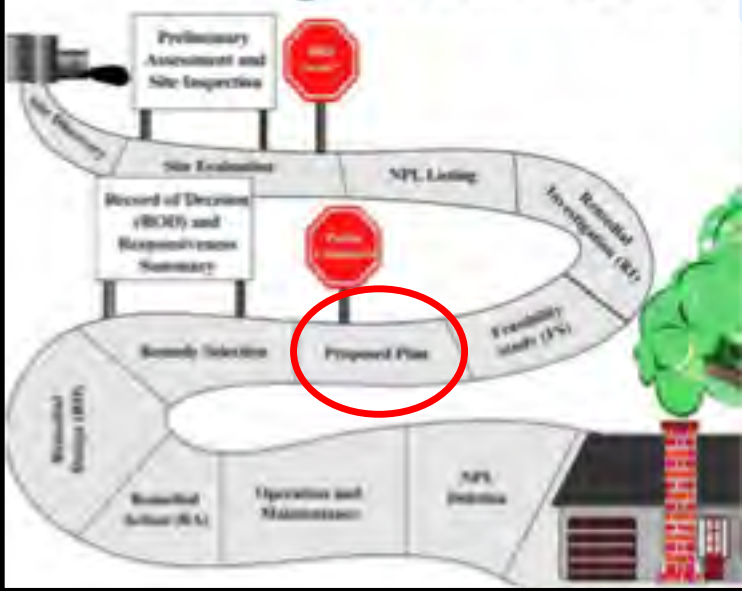


Exposed waste
removal,
regrading, select
fill placement
(2001-2005)



Seeding and tree
plantings to
revegetate cover
(2002-2005)

The Superfund Process

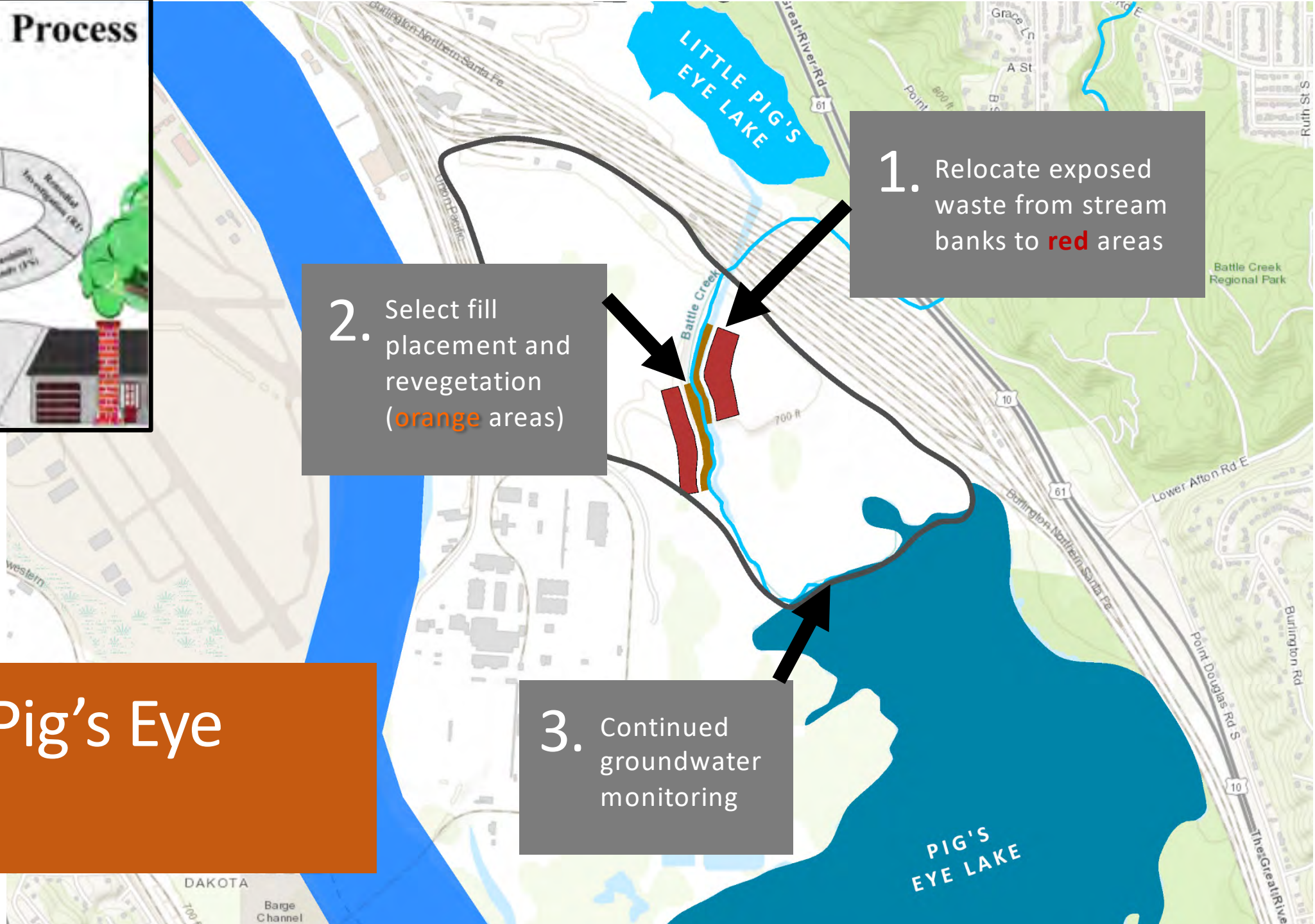



2. Select fill placement and revegetation (orange areas)

1. Relocate exposed waste from stream banks to red areas

3. Continued groundwater monitoring

Plans for Pig's Eye (FY2019)



A photograph of a person wearing a bright yellow and orange safety vest with "MPCA" on the back, khaki pants, and a grey cap. They are walking along a narrow stream, carrying a blue clipboard. The stream is surrounded by lush green grass and yellow wildflowers. The sky is overcast with grey clouds. A semi-transparent dark blue box with white text is overlaid on the left side of the image.

Move exposed
waste from
streambanks

Additional Select Fill Along Battle Creek





Revegetation

1. Prevent Soil Erosion
2. Provide Habitat
3. Clean the Soil

Continued groundwater monitoring



The Superfund Process

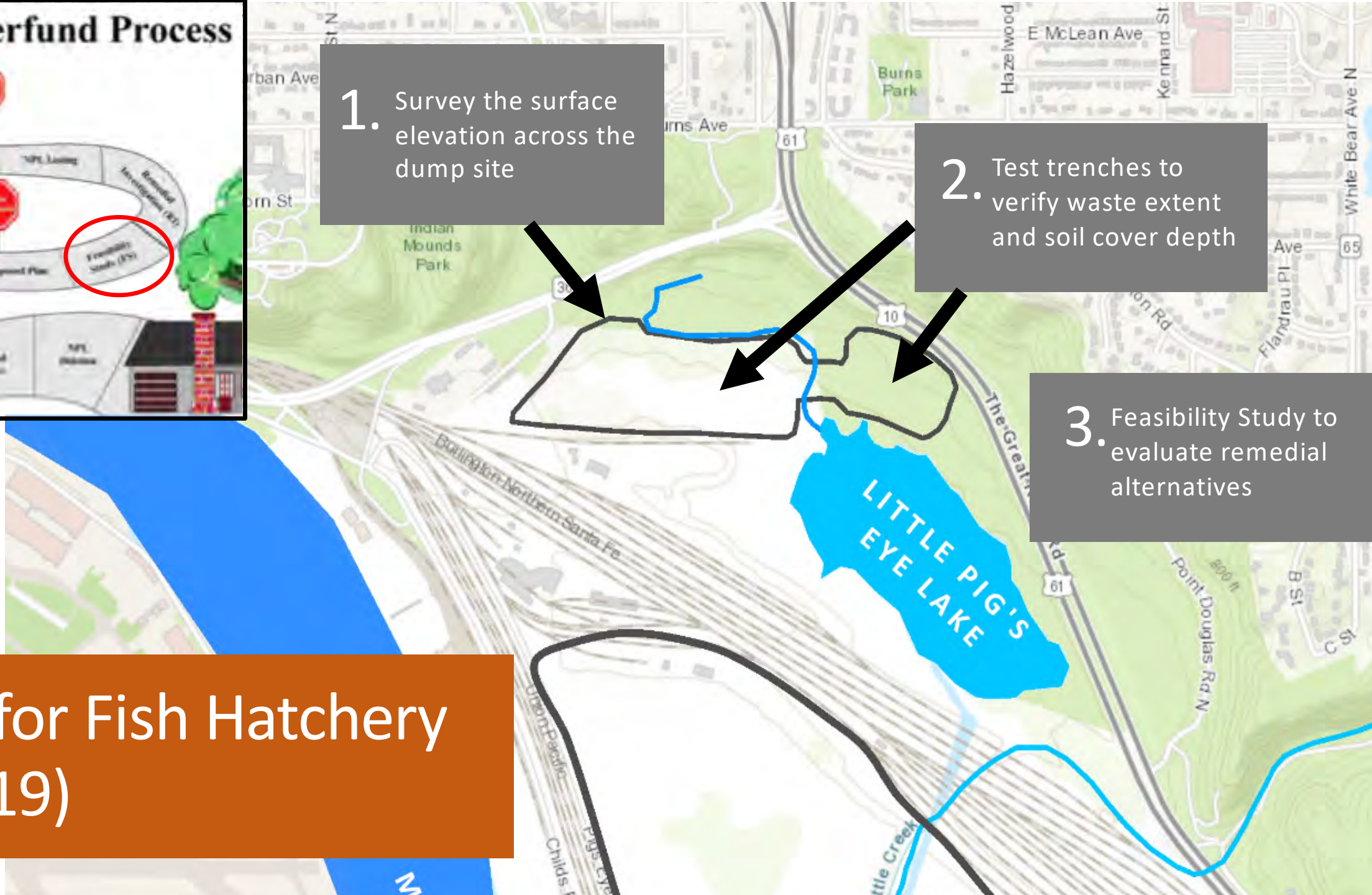


1. Survey the surface elevation across the dump site

2. Test trenches to verify waste extent and soil cover depth

3. Feasibility Study to evaluate remedial alternatives

Plans for Fish Hatchery (FY2019)



Questions?

Contact:

Hans Neve, Supervisor

(651) 757-2608

Pam Foster, Project Manager

(651) 757-2778

Michele Mabry, Project Manager/Hydrogeologist

(651) 757-2155

Mike Bares, Hydrogeologist/Sediment Specialist

(651) 757-2210

Phil Monson, Ecological Risk Assessor

(651) 757-2258

DNR Property Context



Public Goals

Improve
access and
experience





Interpretive
Sign

2018-19

2017



2016



20??



2013-2018



Source: Esri, DigitalGlobe, GeoEye, IGN, Aerimag, AeroGRID, IGN, and the GIS User Community

N, IGP, swisstopo, and

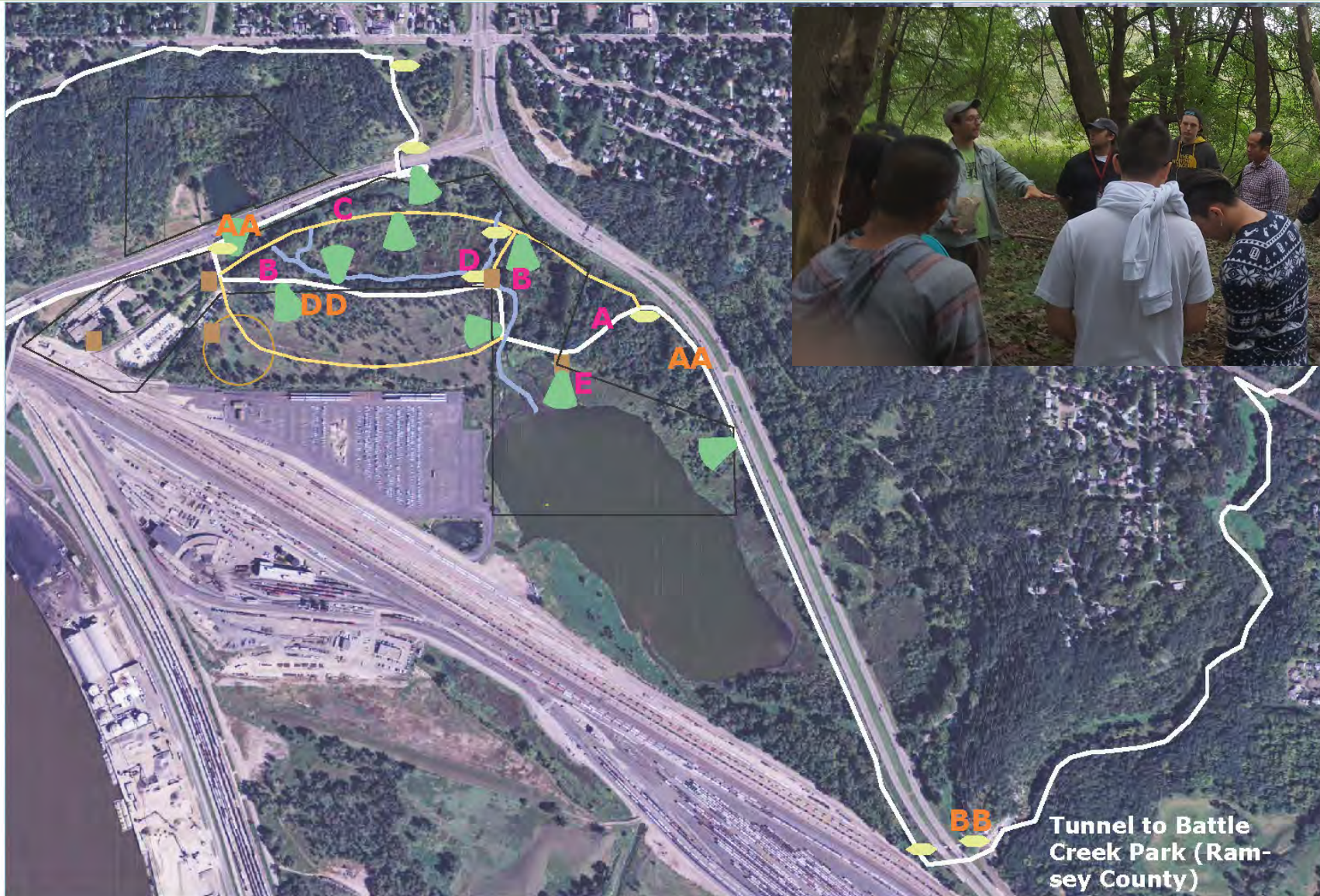
Landscape Vision

- Enhance native plant communities
- Engage youth in landscape restoration
- Interpret the site for the public



Partners/Funding

- Urban Roots
- St Paul Parks and Rec.
- DNR Grants
- Sports Groups (Muskie's Inc)
- Ramsey Wash. Watershed
- NFWF
- Metro Council



Trails



Wayfinding



Interpretation

Metropolitan Council Environmental Services: Area East of Metro Wastewater Treatment Plant

Karen Jensen, MCES Environmental Analyst

Deborah Manning, PE, MCES Assistant Manager, Plant Engineering

Stakeholder Meeting: June 14, 2018



Who is the Metropolitan Council?



The Council's mission is to foster efficient and economic growth for a prosperous region.

- Transportation
- Wastewater collection & treatment
- Planning & development
- Parks
- Housing

What is Metropolitan Council Environmental Services (MCES) and the Regional Wastewater System?



WHO WE SERVE

7-county Twin Cities Metro Area

109 communities

2,600,000 customers

OUR FACILITIES

8 wastewater treatment plants

610 miles of interceptors

250 million gallons per day (on average)

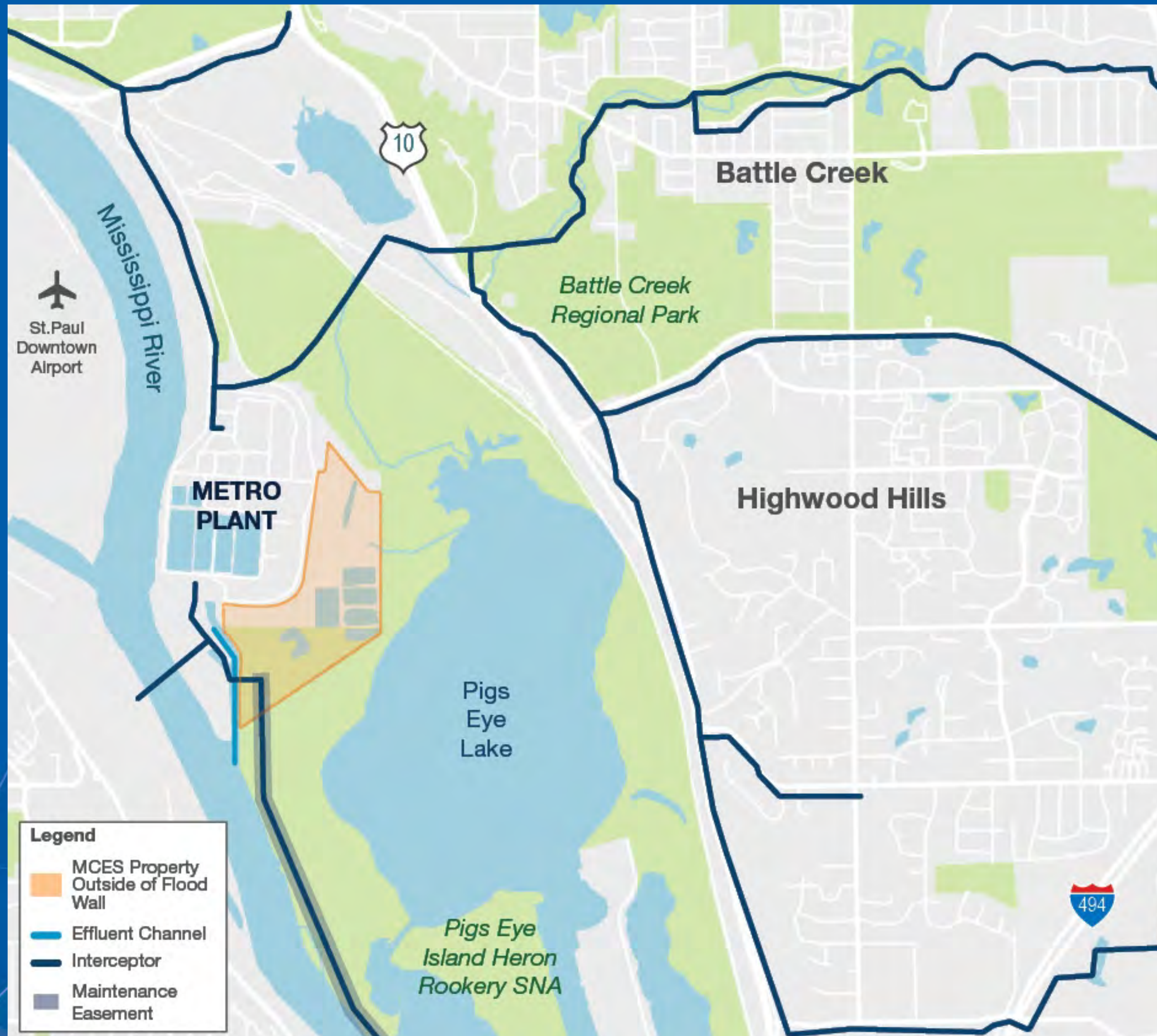
OUR ORGANIZATION

600+ employees

\$7 billion in valued assets

\$140 million per year capital program

Overview: Metro Plant, Area East of Metro Plant, Peninsula Maintenance Easement, and Pigs Eye Lake



Overview: Area East of Metro Plant



Timeline: Area East of Metro Plant

Past

- **1937:** Construction of Metro Plant
- **1938-1976:** Deposition of incinerator ash on area east of Metro Plant
- **1966:** Expansion of Metro Plant including flood control dikes
- **1974-1982:** Construction of 4 ash lagoons east of Metro Plant
- **1977-1985:** Deposition of incinerator ash in lagoons
- **1988:** Excavation of lagoons and deposition of ash to Pig's Eye Dump
- **1986-Present:** Transport of ash off-site, either to be recycled or landfilled
- **2005-Present:** Investigation of soil, groundwater, and lake sediments

Present

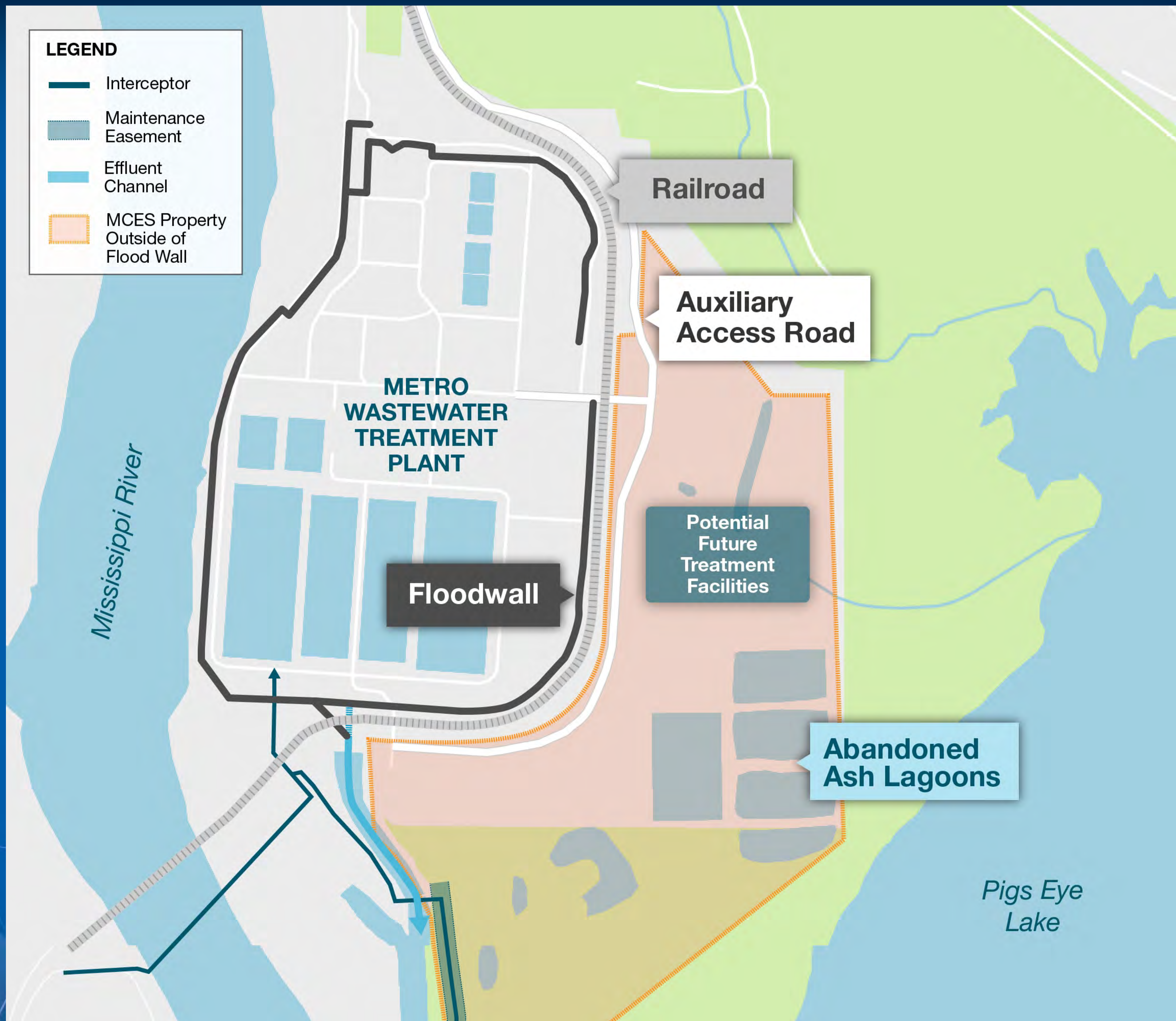
- **2018:** Proposed further investigation of site soils

Future

- **Future/TBD:** Potential expansion of Metro Plant to the east to meet yet-to-be-determined regulatory requirements

LEGEND

- Interceptor
- ▨ Maintenance Easement
- Effluent Channel
- ▨ MCES Property Outside of Flood Wall



No Planned MCES Capital Projects

No planned capital projects in the area east of the existing Metro WWTP

Completed planning level analysis of **potential future** nutrient regulations, treatment options, and facilities needed

Working with MPCA to identify sampling locations to identify areas with ash residual

MCES Potential Future Treatment Facilities

Preliminary Layout for Total Nitrogen Monthly Discharges <10mg at Current Rated Capacity (200 mgd Annual Average)

Source: Planning Level Analysis for Reducing Total Phosphorus and Total Nitrogen Discharges at the Metro WWTP, Prepared for MCES by Brown and Caldwell, May 2013

LEGEND



MCES Property Outside of Flood Wall



Potential Future Treatment Areas

All improvements apply to both scenarios unless noted otherwise.

Unit process locations reflect those identified in Master Plan

MCES Potential Future Treatment Facilities

Preliminary Layout for Total Phosphorous Annual Discharges <0.1 mg P/L and Total Monthly Nitrogen Discharges <10mg N/L at Current Rated Capacity (251 mgd Annual Average)

Source: Planning Level Analysis for Reducing Total Phosphorus and Total Nitrogen Discharges at the Metro WWTP, Prepared for MCES by Brown and Caldwell, May 2013

LEGEND



MCES Property Outside of Flood Wall



Potential Future Treatment Areas

© 2018 Google

Questions

PIGS EYE LAKE

CAP - SECTION 204 BENEFICIAL USE OF DREDGED MATERIAL

USACE POC:

Nathan Campbell
Senior Civil Works Program Manager
651-290-5544



US Army Corps
of Engineers ®



COORDINATION EFFORTS AND PARTNERING OPPORTUNITIES

Interest in the Project

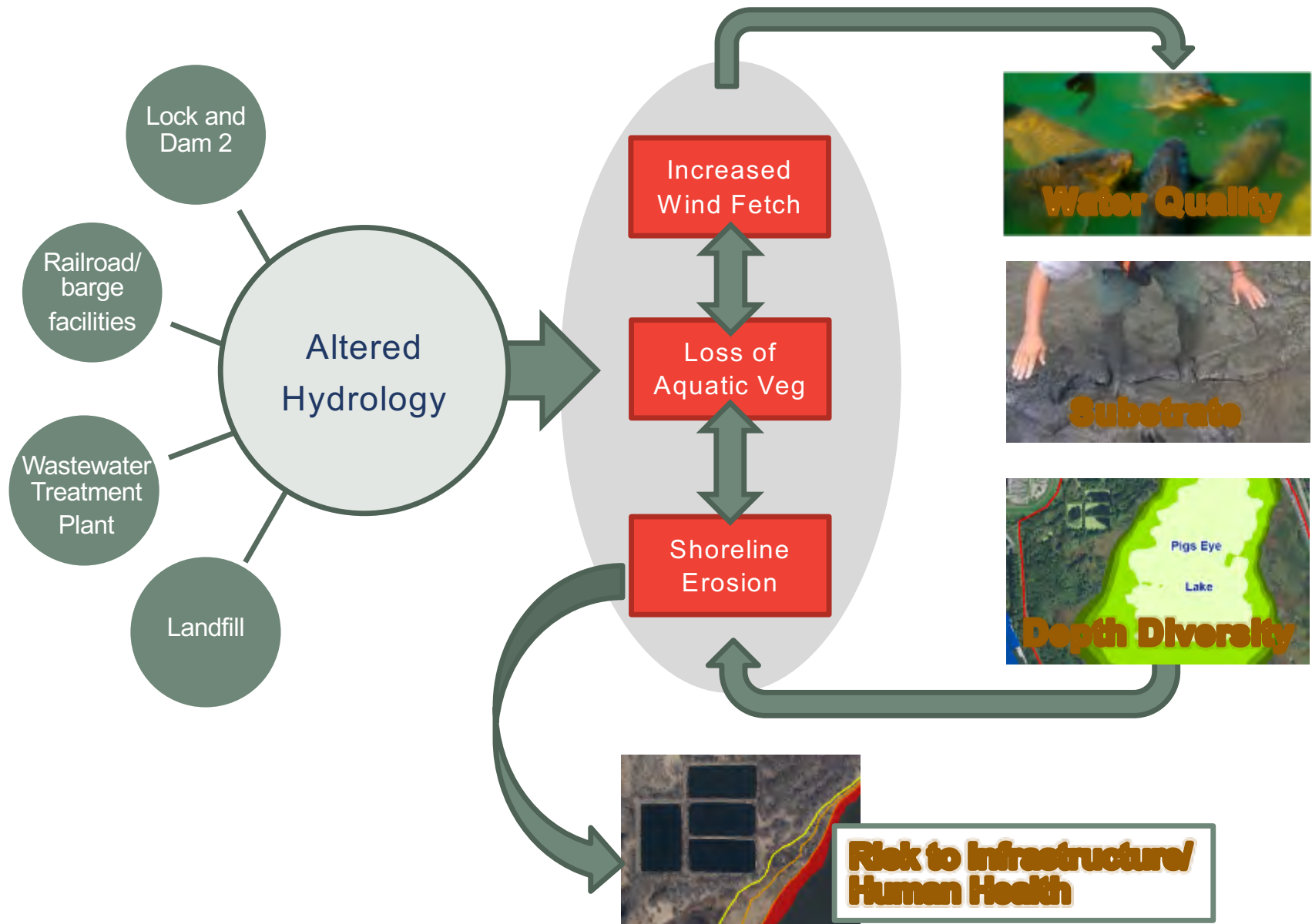
- Sponsor: Ramsey County, MN
- Partners:
 - Minnesota Pollution Control Agency: Actively working on remediation plan for Superfund site in project area.
 - Minnesota DNR
 - National Park Service
 - U.S. Fish and Wildlife Service

Coordination Efforts

- Agency Meetings
- Sub-Groups:
 - Habitat (NPS, MN-DNR, USFWS)
 - Contaminants (MPCA, Met Council)
 - Constructability (C&H)
- Joint Pool 2 Meeting
 - Dredge Material Management Plan
 - Channel Management Study
- FAA - St. Paul Airport

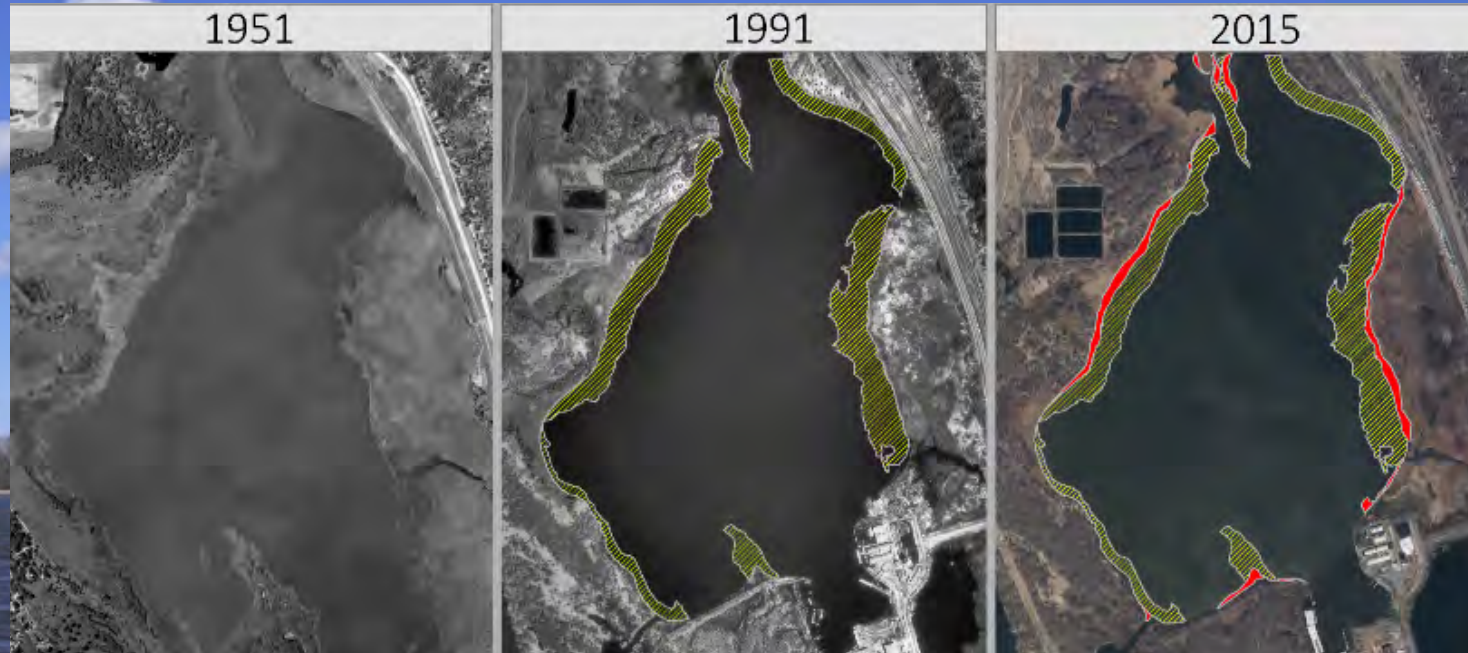
CONCEPTUAL MODEL OF PIG'S EYE PROBLEMS

3



SHORELINE EROSION - PRESENT

4



Shoreline Boundary Comparison: 1951-2015

- Shoreline Loss 1951-1991: 93 acres
- Shoreline Loss 1991-2015: 18 acres

SHORELINE EROSION - FUTURE

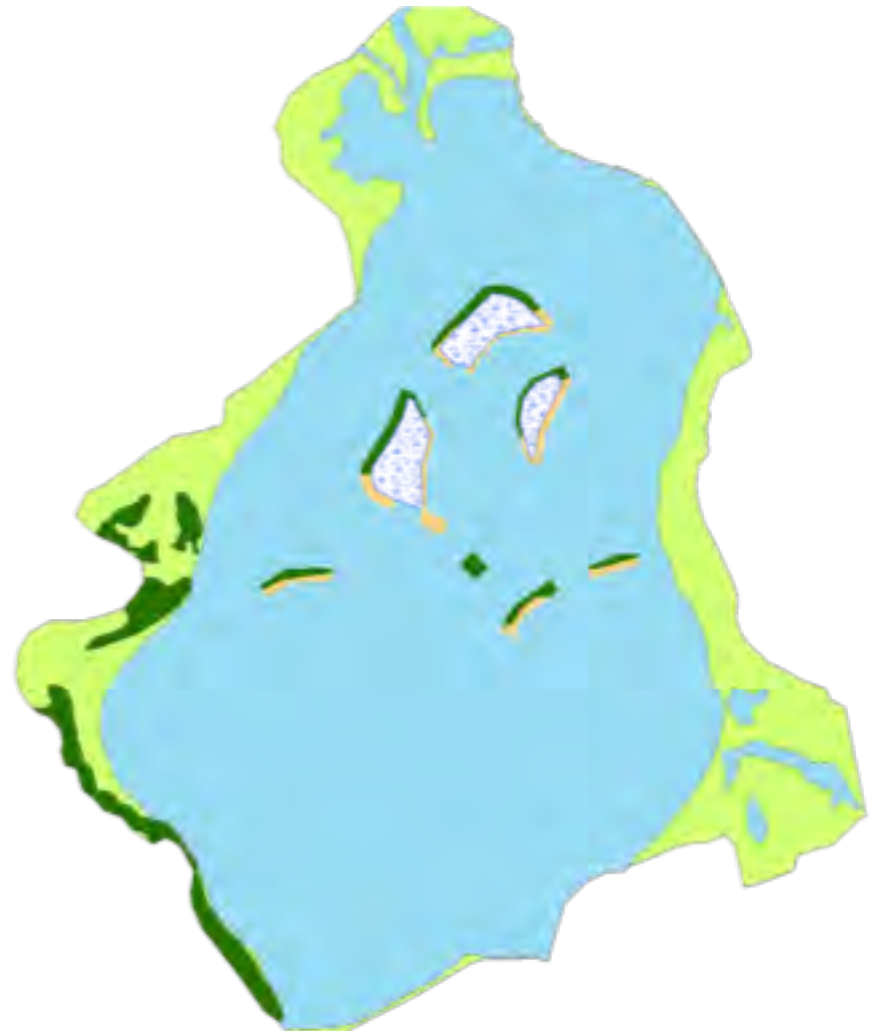


HABITAT BENEFITS

Islands would add new and varied habitat within the lake, including trees, marsh, prairie, and sandy areas.

Project Habitat Improvements:

- Increased shallow water areas
- Thermal protection
- Visual barriers
- Loafing structures
- Plant community diversity
- Important food plant abundance



Type	Acres	Percent	% Δ
Bottomland Forest - Scrub/Shrub	26.5	3.5%	+1.1%
Shallow Marsh - Emergents	131.1	17.6%	0.0%
Wet Prairie - Grasses/Forbs	8.3	1.1%	+1.1%
Marsh - Rooted Floating & Emergents	17.6	2.4%	+1.4%
Open Water	563.5	75.4%	-3.6%

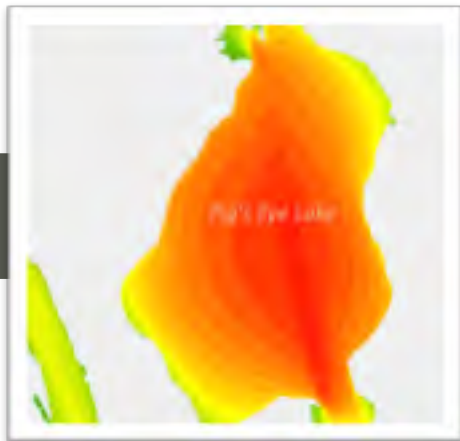
WIND FETCH BENEFITS

37.5 Acres of shoreline predicted to be lost without project.

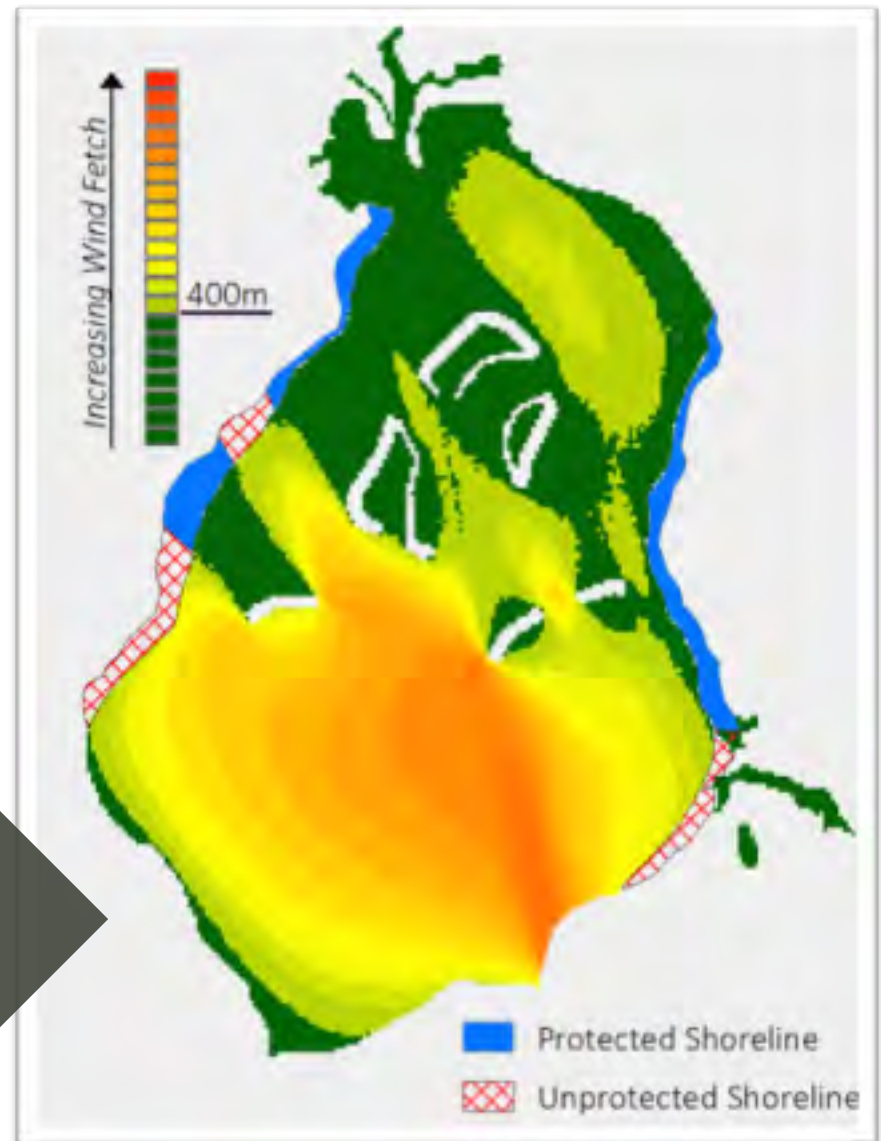
Islands block wind, reduce shoreline erosion and protect valuable habitat that would otherwise be lost.

This also creates calm, protected areas that benefit birds and other wildlife and reduce sediment re-suspension.

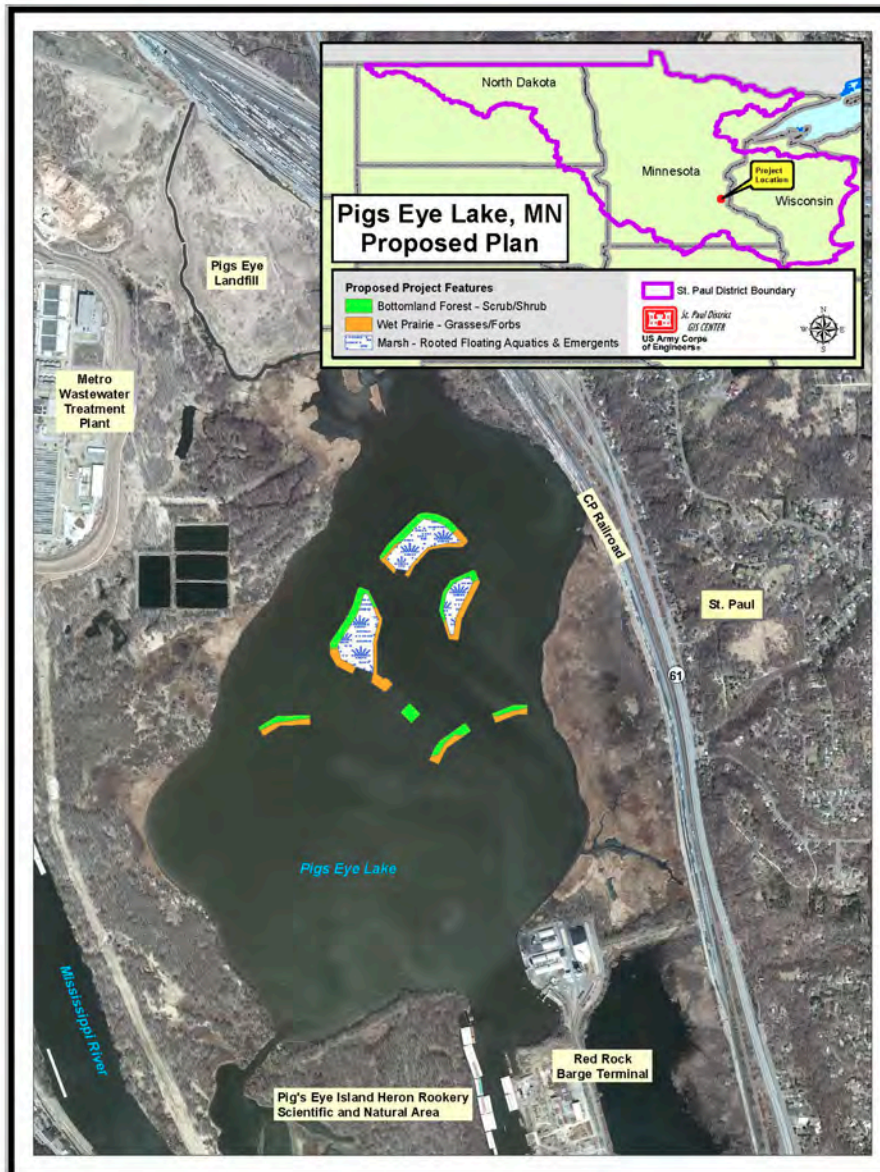
*Existing
Wind Fetch*



Wind Fetch with Project



SELECTED PLAN DETAILS



- **Features:**
 - 7 islands with sand benches (413,000 cy of dredged material)
 - 16 acres of floodplain forest and wet prairie
 - 18 acres of marsh habitat
- **171.1 AAHU** (*Average Annual Habitat Unit*)
- **\$2,700/AAHU**
- **\$12.4M Project First Cost**
 - \$8.7M Federal
 - \$4.3M Non-federal
- Support from Ramsey County, USFWS, MN-DNR, Met Council, MPCA, FAA, NPS

TENTATIVE SCHEDULE

- Execute Project Partnership Agreement – September 2018
- Begin Plans and Specifications – October 2018
- Complete Plans and Specifications – March 2019
- Advertise Project for bids – July 2019
- Award Contract – August 2019
- Complete Island Construction – November 2020
- Complete topsoil and planting of islands – November 2021



Battle Creek Master Plan

Purpose

- The current master plan for Battle Creek Regional Park is outdated having been produced in 1981
- Ramsey County Parks & Recreation will be updating the master plan beginning July, 2018
- Master planning efforts will include extensive public engagement to look at the parks current and future uses.

Project Location

- Battle Creek Regional Park includes the Pig's Eye Lake
 - Segments of the park are located within the East Side River District, Mississippi River Corridor Critical Area, and the Mississippi National River and Recreation Area

Timeline

- Plan development is anticipated to be completed late 2019 or early 2020.



Map of the Potomac River area near Washington, D.C., showing various industrial and commercial sites labeled A through J. The river is on the left, and the Potomac River is labeled. The area is divided into sections by yellow lines. Labels A through J are placed on different sites. A yellow line also outlines a large area on the left side of the river.

*Port Authority Tenant



Barge Terminal 1

Site ID	Tenant / User
A	Cemstone
B	Northern Metals
C	Northern Metals
D	Morton Salt Sub-Lease
E	Hawkins Chemical
F	Aggregate Industries
G	Cemstone
H	Westway
I	Koch Flint Hills
J	Westway



380 St. Peter Street
Suite 850
St. Paul, MN 55102
(651) 224-5686
www.sppa.com





Southport
Terminal -
Barge Channel
Road



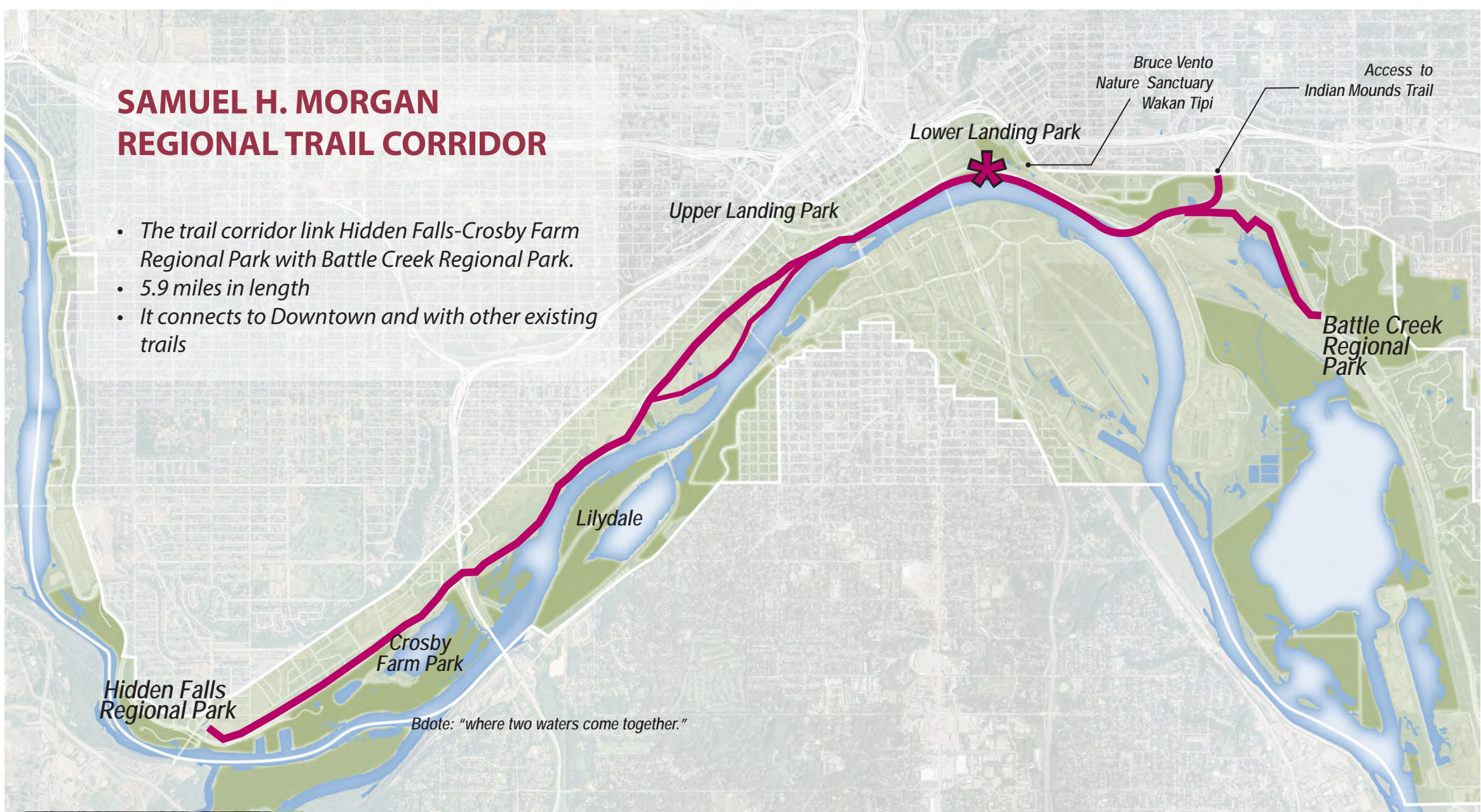
SAMUEL H. MORGAN REGIONAL TRAIL CORRIDOR



LOWER LANDING PARK RENOVATION PLAN

CITY OF SAINT PAUL
DEPARTMENT OF PARKS & RECREATION
DESIGN AND CONSTRUCTION DIVISION
2017-2018





SAMUEL H. MORGAN REGIONAL TRAIL CORRIDOR

- The trail corridor link Hidden Falls-Crosby Farm Regional Park with Battle Creek Regional Park.
- 5.9 miles in length
- It connects to Downtown and with other existing trails



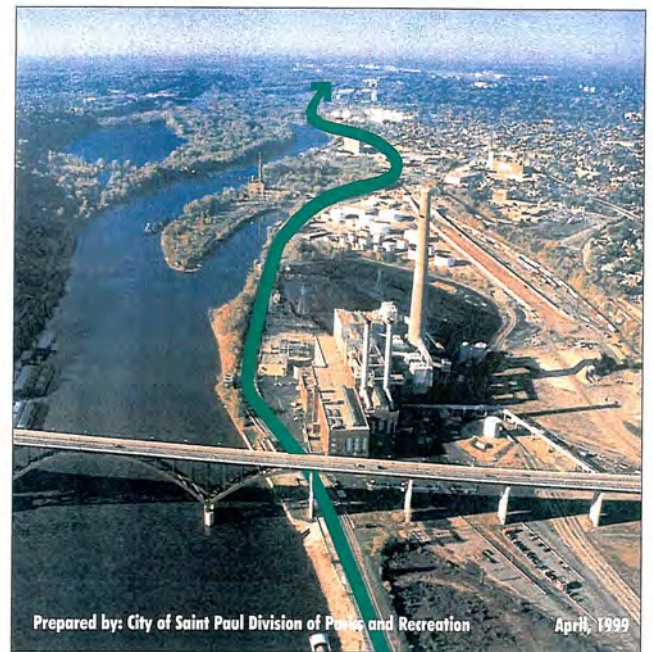
1,000 WAYS TO RECREATE

- | | |
|-----------------------------------|-----------------------------|
| 17 MILES OF THE MISSISSIPPI RIVER | 5 HISTORIC & PRESERVE SITES |
| 17 PARKS | 4 LAKES |
| 6 MAJOR TRAILS | 2 DOG PARKS |
| | 1 ARCHERY RANGE |

East Bank Mississippi River Regional Trail Corridor

Master Plan

Saint Paul, Minnesota



Greater Lowertown Master Plan Summary



SAMUEL H. MORGAN REGIONAL TRAIL CORRIDOR LOWER LANDING PARK RENOVATION PLAN

PROJECT BACKGROUND

CITY OF SAINT PAUL
DEPARTMENT OF PARKS & RECREATION
DESIGN AND CONSTRUCTION DIVISION
2017-2018





RECREATIONAL PROGRAM

- 1 PUBLIC ART GALLERY
- 2 IMPROVED PICNIC AREA/ ACCESS TO FISHING DECK
- 3 DOG PARK
- 4 FUTSAL COURTS
- 5 HALF BASKETBALL COURTS
- 6 PUMP TRACK
- 7 CHILDREN AND TEENS PLAY AREA
- 8 EXERCISE COURSE
- 9 GATHERING SPACE FOR EVENTS / FRISBEE ACTIVITIES
- 10 LAND & RIVER INTERPRETIVE OVERLOOK
- 11 MULTIUSE OPEN FIELD / NATIVE LACROSSE FIELD - COMMUNITY PARTNERSHIP
- 12 COTTONWOOD TREE FOREST - DAKOTA SPIRITUALITY ACKNOWLEDGE - PUBLIC ART
- 13 BIRD WATCHING TRAIL

SERVICES

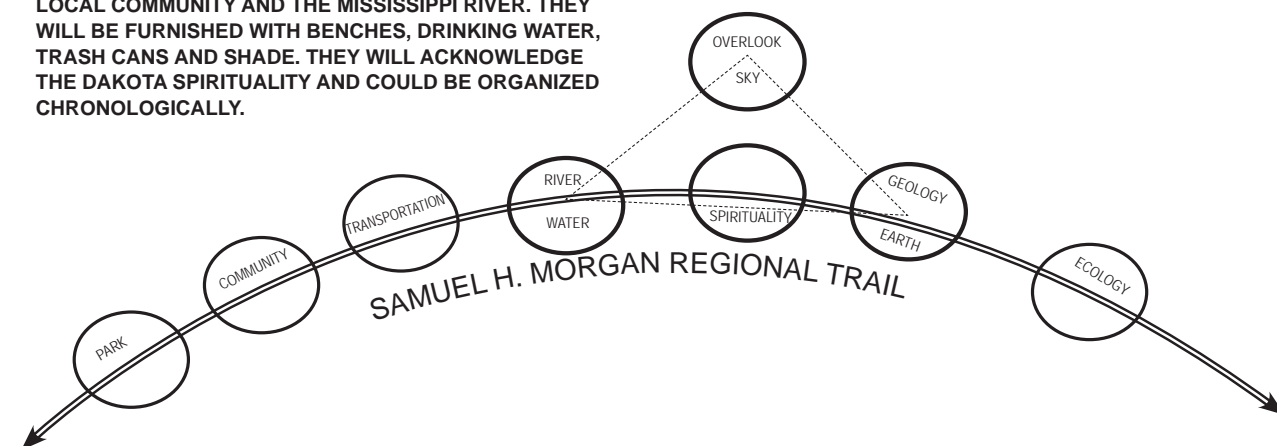
- A EXISTING PARKING
- B PARKING EXPANSION - FOOD TRUCKS
- C DROP-OFF ACCESS
- D PORTABLE POTTY SHELTER
- E INFORMATION KIOSK /BIKE FIX STATION

WINTER ACTIVITIES

- CROSS COUNTRY SKI TRAIL
- SLEDDING HILL

INTERPRETIVE STATIONS

EACH STATION WILL INCLUDE INTERPRETIVE PUBLIC ART AND INFORMATION ABOUT THE HISTORY OF THE SITE, LOCAL COMMUNITY AND THE MISSISSIPPI RIVER. THEY WILL BE FURNISHED WITH BENCHES, DRINKING WATER, TRASH CANS AND SHADE. THEY WILL ACKNOWLEDGE THE DAKOTA SPIRITUALITY AND COULD BE ORGANIZED CHRONOLOGICALLY.





SAMUEL H. MORGAN REGIONAL TRAIL CORRIDOR LOWER LANDING PARK RENOVATION PLAN

ACTIVE PROGRAM

RECREATIONAL PROGRAM

- ① PUBLIC ART GALLERY
- ② IMPROVED PICNIC AREA/ ACCESS TO FISHING DECK
- ③ DOG PARK
- ④ FUTSAL COURTS
- ⑤ HALF BASKETBALL COURTS
- ⑥ PUMP TRACK
- ⑦ CHILDREN AND TEENS PLAY AREA
- ⑧ EXERCISE COURSE
- ⑨ GATHERING SPACE FOR EVENTS / FRISBEE ACTIVITIES

SERVICES

- Ⓐ EXISTING PARKING
- Ⓑ PARKING EXPANSION - FOOD TRUCKS
- Ⓒ DROP-OFF ACCESS
- Ⓓ PORTABLE POTTY SHELTER
- Ⓔ INFORMATION KIOSK /BIKE FIX STATION

WINTER ACTIVITIES

- CROSS COUNTRY SKI TRAIL
- SLEDDING HILL

CITY OF SAINT PAUL
DEPARTMENT OF PARKS & RECREATION
DESIGN AND CONSTRUCTION DIVISION
2017-2018





RECREATIONAL PROGRAM

- ① PUBLIC ART GALLERY
- ② IMPROVED PICNIC AREA/ ACCESS TO FISHING DECK
- ③ DOG PARK
- ④ FUTSAL COURTS
- ⑤ HALF BASKETBALL COURTS
- ⑥ PUMP TRACK
- ⑦ CHILDREN AND TEENS PLAY AREA
- ⑧ EXERCISE COURSE
- ⑨ GATHERING SPACE FOR EVENTS / FRISBEE ACTIVITIES

SERVICES

- Ⓐ EXISTING PARKING
- Ⓑ PARKING EXPANSION - FOOD TRUCKS
- Ⓒ DROP-OFF ACCESS
- Ⓓ PORTABLE POTTY SHELTER
- Ⓔ INFORMATION KIOSK /BIKE FIX STATION

WINTER ACTIVITIES

- CROSS COUNTRY SKI TRAIL
- SLEDDING HILL



PROJECT INFORMATION
www.stpaul.gov/LowerLandingRenovation



Bianca Paz
bianca.paz@ci.stpaul.mn.us
651.266.6418

Brett Hussong
brett.hussong@ci.stpaul.mn.us
651.266.6420

INDIAN MOUNDS REGIONAL PARK KICK-OFF MTG

WELCOME!




Goal: Collaboratively establish the community process, content and scope for:

- 1) Cultural Landscape Study and,
- 2) Trail Reconstruction Project

IMRP TRAIL RECONSTRUCTION PRELIMINARY ALIGNMENT

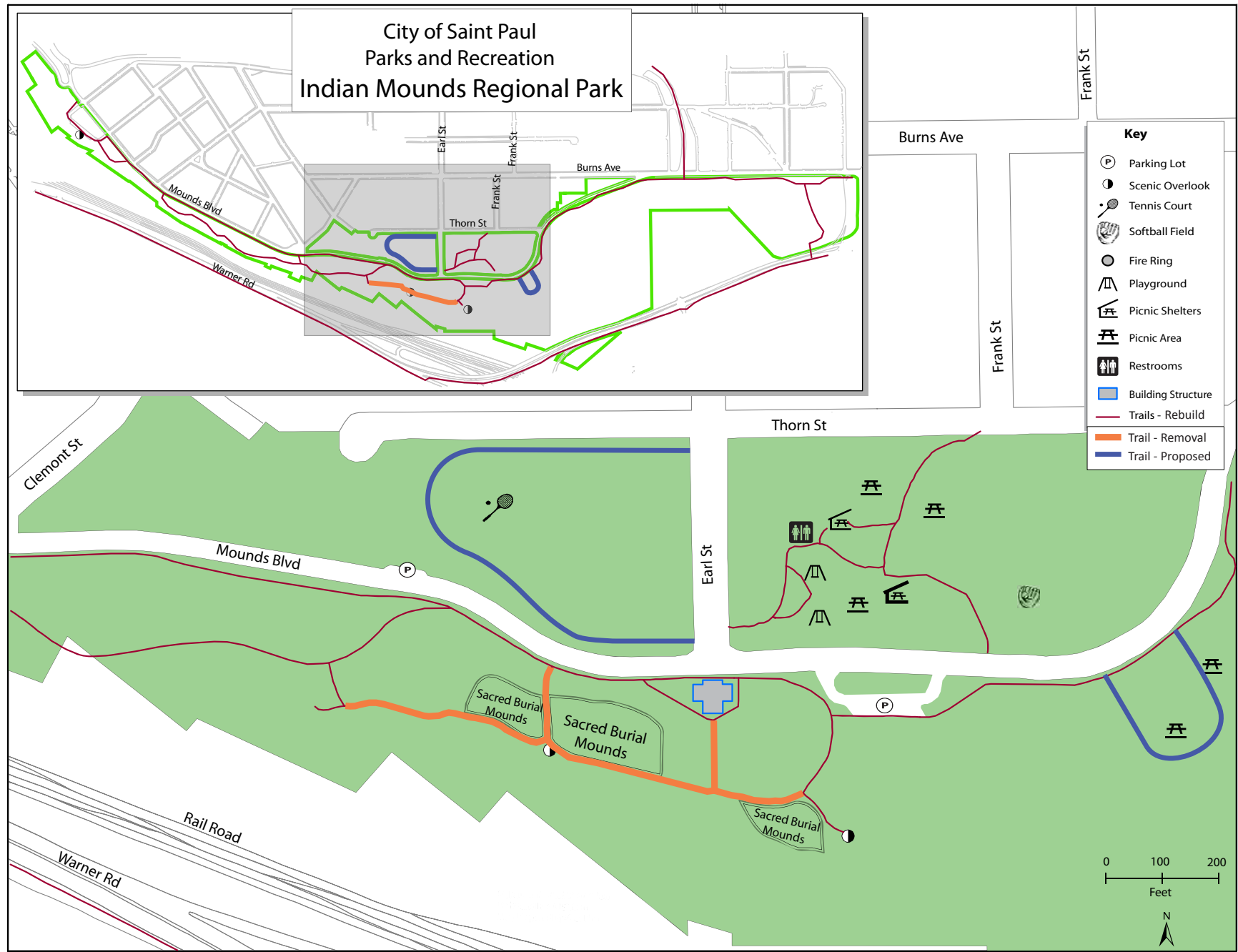
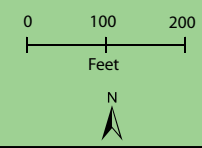


Legend

-  = Park Boundary (potential Cultural Resource Study)
-  = Existing Trails (potential Trail Reconstruction alignment)
-  = Existing Trails To Be Removed
-  = Potential Trails (based upon geophysical survey)
-  = Sam H. Morgan Regional Trail (below bluff)

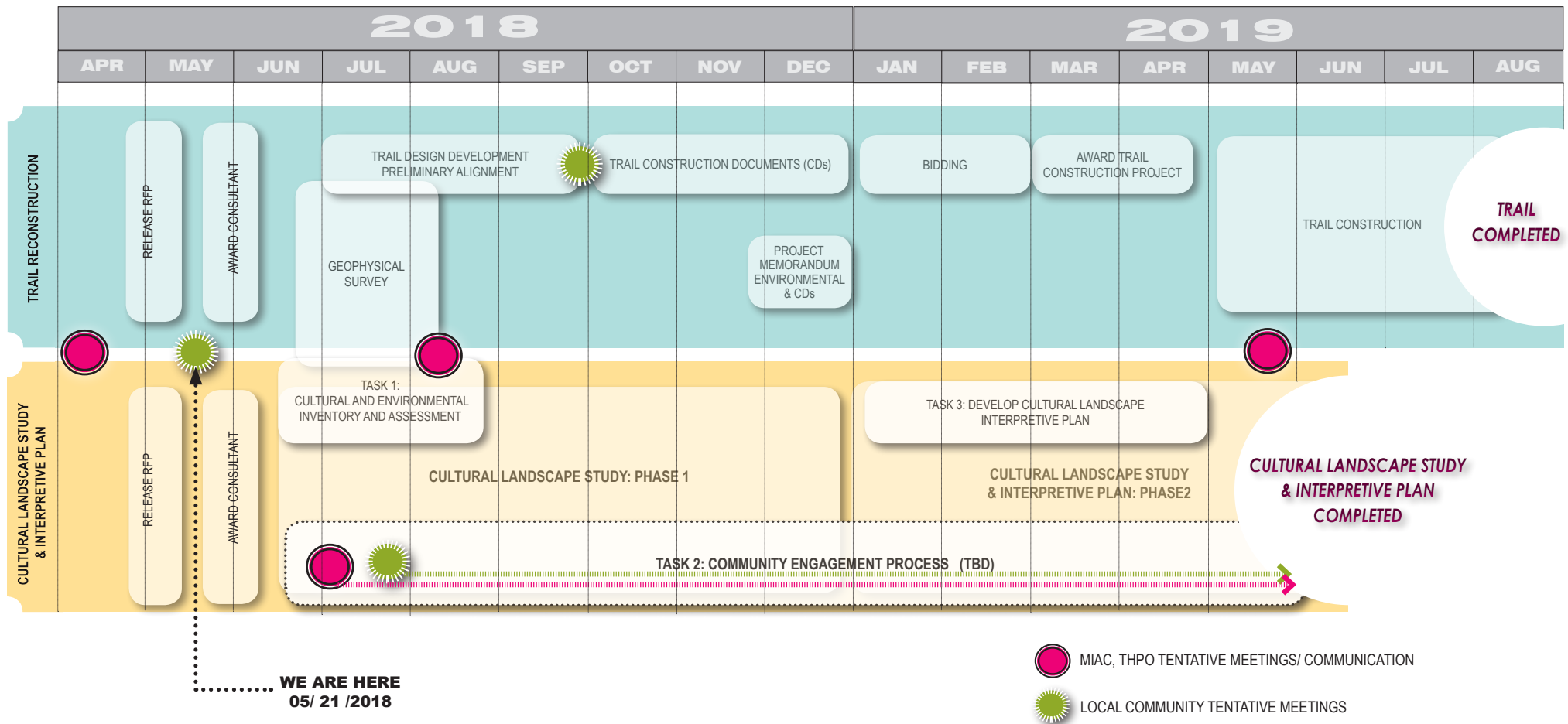
City of Saint Paul Parks and Recreation Indian Mounds Regional Park

- Key**
- (P) Parking Lot
 - Scenic Overlook
 - ⬮ Tennis Court
 - ⬮ Softball Field
 - Fire Ring
 - ⬮ Playground
 - ⬮ Picnic Shelters
 - ⬮ Picnic Area
 - ⬮ Restrooms
 - ⬮ Building Structure
 - Trails - Rebuild
 - Trail - Removal
 - Trail - Proposed



INDIAN MOUNDS REGIONAL PARK

TENTATIVE TIMELINE



INDIAN MOUNDS REGIONAL PARK

NEXT STEPS

Short Term (1 yr):

- Award Request for Proposals (RFPs)
 - Complete Geophysical Survey
- Complete Cultural and Environmental Analysis

Long Term (1+yrs):

- Great River Passage Cultural Landscape Study (17 Miles along Mississippi River)

Contact:

Brett.Hussong@ci.stpaul.mn.us

Bianca.Paz@ci.stpaul.mn.us

Website:

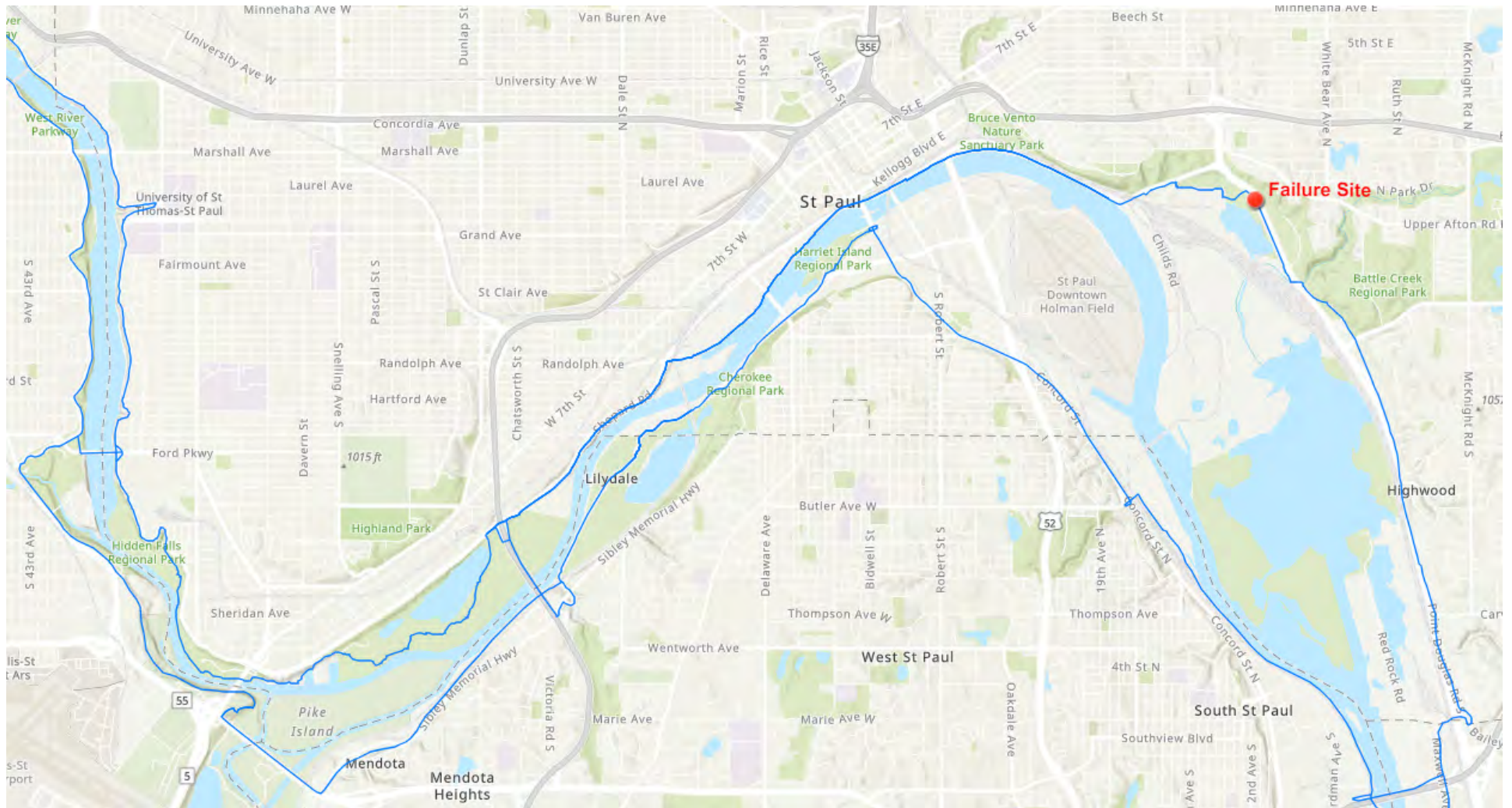
<https://www.stpaul.gov/facilities/indian-mounds-regional-park>

Fish Hatchery Trail Update

February 1, 2018



Regional Context



Update on Activities

- MnDOT drainage work completed in October 2017
- “Report of Geotechnical Exploration And Review” - draft completed December 2017



- Two locations of failure identified
- No precise single cause of failure, but based on information and data, slope movement may be caused by water pooling on eastern edge of highway and feeding naturally occurring ground water flows through the embankment.

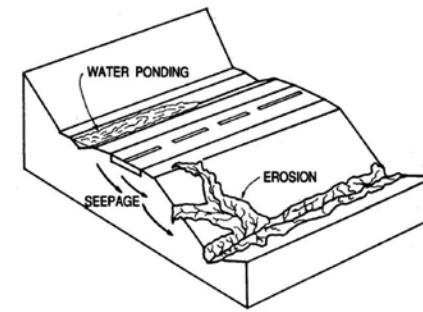


Figure 6.1-1. Subsurface drainage as a potential cause of slope instability (Reference: FHWA Report No. FHWA-RT-88-040).

Geotechnical Recommendations

Area A

DRAFT



Photograph 1. Looking south at slide Area A (photograph dated 11/24/17).



Photograph 2. Looking south across the embankment slope of slide Area A. Inclinator INCL-1 can be seen in the center of the photograph (Photograph dated 12/1/17).

American Engineering Testing, Inc.
AET No. 01-07231

Area B

DRAFT



Photograph 3. Looking south along the head scarp of Slide Area B (Photograph dated 11/24/17).



Photograph 4. Looking north across the embankment slope of slide Area B. Inclinator INCL-2 can be seen in the left-center of the photograph (Photograph dated 12/1/17).

American Engineering Testing, Inc.
AET No. 01-07231

Temporary Solutions

- Detour Route and Signage



Temporary Solutions

- Construction of a boardwalk



Next Steps

- Identify remaining funds for boardwalk construction
- Apply for DNR Federal Grant
- Feasibility study completed



Questions/Discussion?



Environmental Services

Current Work in the East Side River District- 2018



Wh



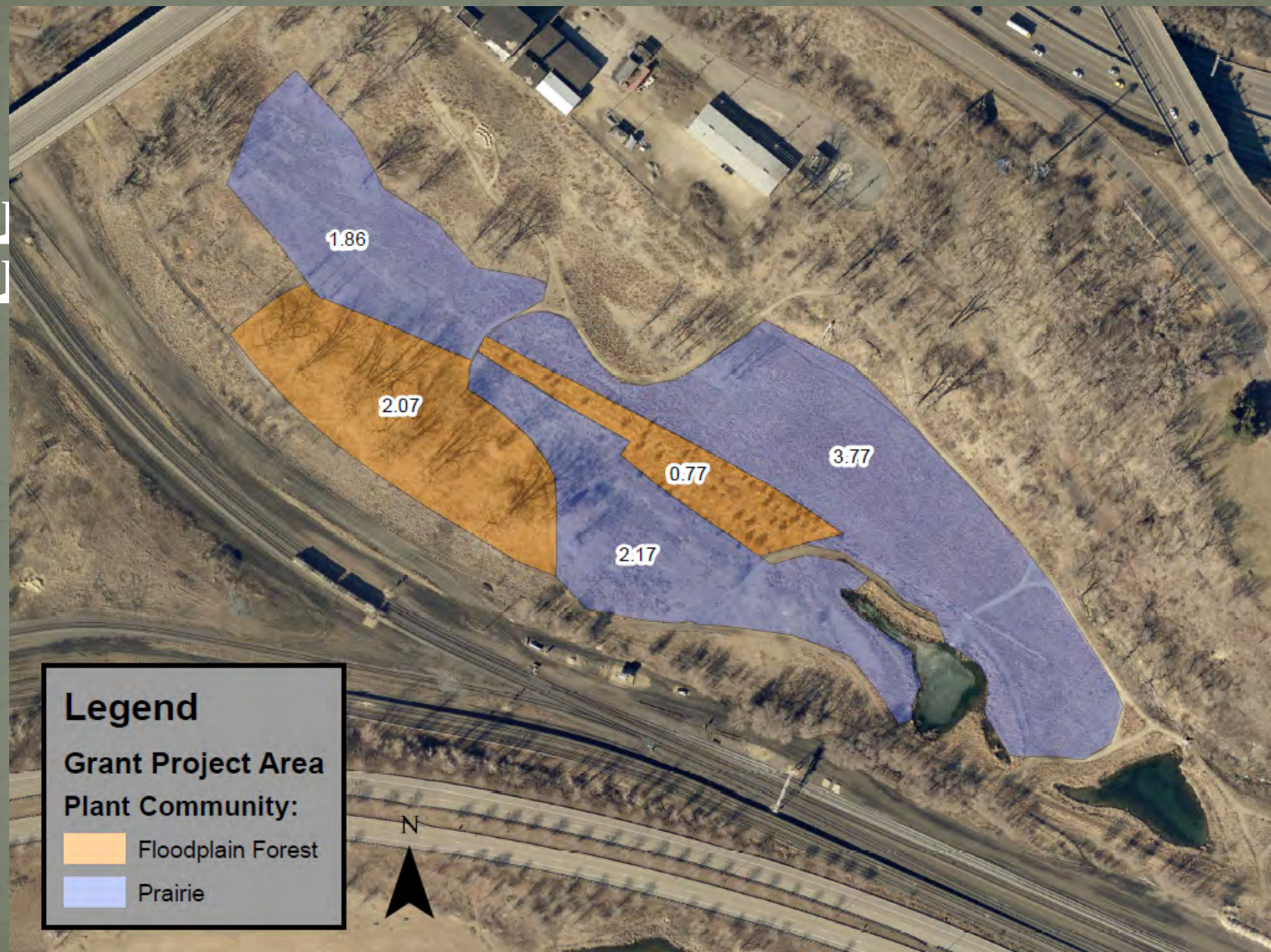
in

Environmental Services

- What we do continued:
 - Write and manage between \$250,000-\$500,000 in grants per year
 - Manage the city's prescribed burn, hazardous waste, well management, deer, pesticide programs and more







Potential Future Funding

- NFWF Five Star Grant with National Park Service to improve Rusty Patch Bumble Bee habitat
 - Indian Mounds, Bruce Vento Nature Sanctuary, Highwood Park, Henry Park





PLANT FOR THE FUTURE

Partner Update



MISSISSIPPI PARK
CONNECTION
Discover your river

Forest Resiliency Campaign

- Cross jurisdictional program to address Ash die off (500,000 trees in MNRRA)
- \$1M campaign, including 15,000 healthy trees, public engagement and volunteerism, dedicated conservation corps crew for all partners



Benefits of a healthy forest

- > Flood Protection
- Improved Water Quality
- Scenic Values
- Erosion reduction
- Better Habitat for Wildlife
- Cooling effects of the tree canopy



Benefits of a healthy forest

> Carbon Sequestration

Ash trees within the park contain an estimated 101,555 tons of carbon

About the same as saving 38,009,477 gallons of gas consumed, taking 71,353 cars off the road for a year or installing 85 wind turbines

Loss of ash will lead to rise in available land for invasive plant takeover



Treepocalypse

- **3,510 trees have been planted in either gravel beds or area parks in May**
- **155 volunteers in May**
- **Trained 6 new NPS seasonal Ranger staff**



Tree Nurseries

- Prospect Park Community Garden
- Raptor Center (2)
- Science Museum of MN
- Urban Roots
- KARE-11 (pending)



Conservation Corps Crew

- Young Adult Group came on board in March
- Youth Crews have joined Thursdays and Saturdays
- Notable projects include: an ash survey, prepping for various tree and shrub plantings, and clearing hazard ash trees over trails.



Public Engagement

- Cocktails for the Canopy
- Rooted Red Ale (Dangerous Man)
- MN United pre game parties
- Virtual Reality Experience
- Instagram contest



Science Museum of Minnesota

40 trees of 4 different species



The Raptor Center *400 Cottonwoods*



Urban Roots- Rivoli Site
270 trees of 8 different species



Surly Gives a Damn
800 trees of 7 different species





Lower Phalen Creek Project is an East Side Saint Paul organization whose mission is to engage people in honoring and caring for our natural places and the sacred sites and cultural value within them.

LOWER PHALEN CREEK PROJECT

Our **mission** is to strengthen the East Side and Lowertown communities of Saint Paul, Minnesota by developing and maximizing the value of local parks, trails, ecological and cultural resources and by rebuilding connections to the Mississippi River.

We **value** human relationships and community building at the core of how we do our work.

We **value** our parks, trails and open spaces and access to all, as a fundamental community asset.

www.phalencreek.org

East Side Trails, Infrastructure and Connections

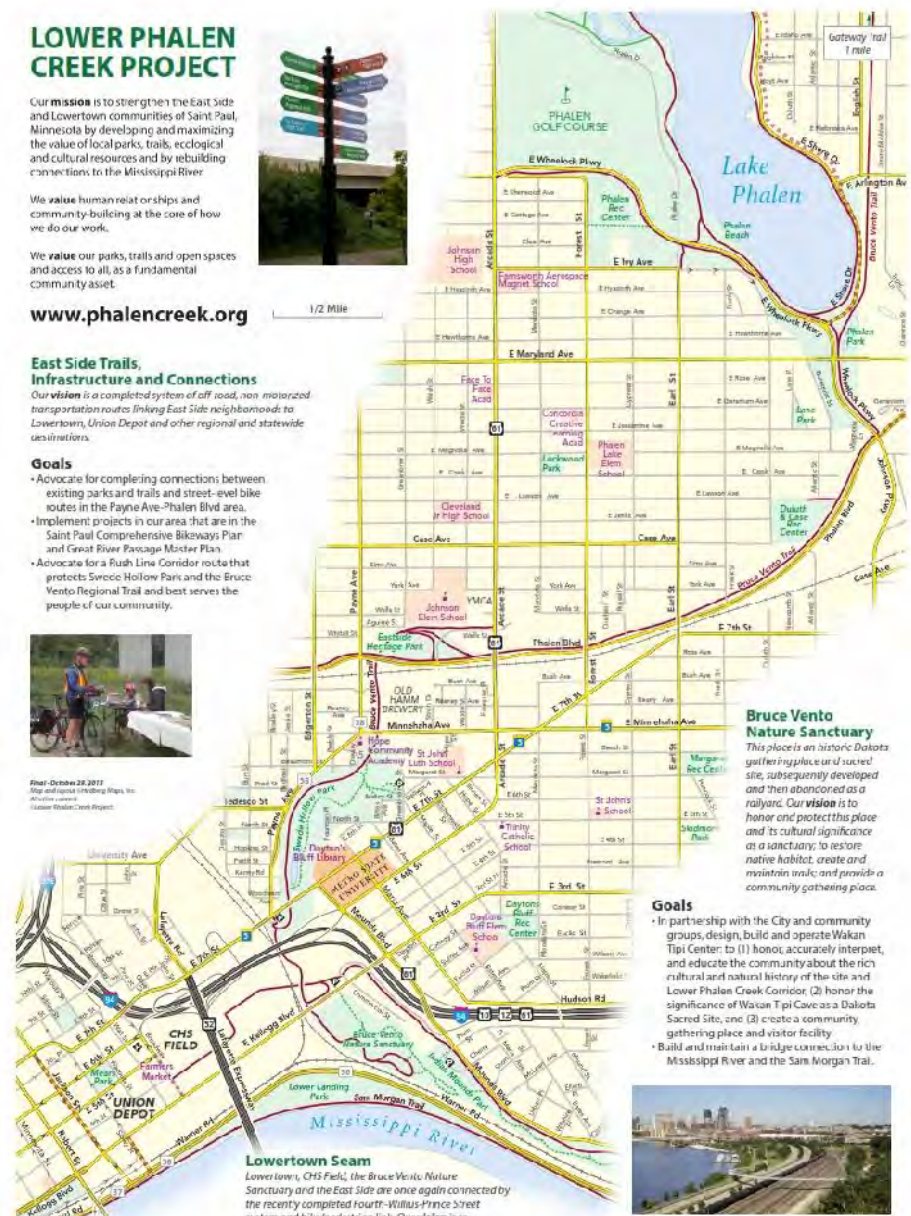
Our **vision** is a completed system of off road, non motorized transportation routes linking East Side neighborhoods to Lowertown, Union Depot and other regional and statewide destinations.

Goals

- Advocate for completing connections between existing parks and trails and street-level bike routes in the Payne Ave-Phalen Blvd area.
- Implement projects in our area that are in the Saint Paul Comprehensive Bikeways Plan and Great River Passage Master Plan.
- Advocate for a Rush Line Corridor route that protects Swoose Hollow Park and the Bruce Vento Regional Trail and best serves the people of our community.



Photo: October 28, 2013
Map and aerial view of the project area.
Lower Phalen Creek Project



Bruce Vento Nature Sanctuary

This place is an historic Dakota gathering place and sacred site, subsequently developed and then abandoned as a railway. Our **vision** is to honor and protect this place and its cultural significance as a sanctuary; to restore native habitat, create and maintain trails, and provide a community gathering place.

Goals

- In partnership with the City and community groups, design, build and operate Wakan Tipi Center: to (1) honor, accurately interpret, and educate the community about the rich cultural and natural history of the site and Lower Phalen Creek Corridor; (2) honor the significance of Wakan Tipi Cave as a Dakota Sacred Site; and (3) create a community gathering place and visitor facility.
- Build and maintain a bridge connection to the Mississippi River and the Sam Morgan Trail.



Lowertown Seam

Lowertown, CHS Field, the Bruce Vento Nature Sanctuary and the East Side are once again connected by the recently completed four-mile Payne Street system and bike/pedestrian link. Our **vision** is to leverage this Lowertown Seam to create spaces and connections that are natural, sustainable, and accessible by multiple modes of transportation.

Goals

- Support and connect to the "Bike Rally" project as described in the Great River Passage Master Plan.
- Support and connect to the Bikeway on Jackson Street in Lowertown.
- Engage the community in influencing the design of new 3rd Street Bridge, and track other projects of interest in the neighborhood.





Urban setting





Interior of Carvers Cave May 1st 1861
Centennial Anniversary of Carvers visit to
and treaty with the Indians



Wakan Tipi Cave



Wakan Tipi Cave



School curricula

Wakan Tipi Center

Cost:

Design & construction = \$6.7M

Reserve for M&O = \$1M

TOTAL = \$7.7M

Funding:

State bonding = \$3M (granted May 2018)

Private capital campaign = \$4.7M



Timeline:

2018-2020 – Capital campaign

May 2020 – Construction begins

2021 – Center is completed

Early 2022 – Grand Opening

(design idea only)

Partner Organizations:



**Lower Sioux Indian Community
Cansayapi Cultural Department**

**Indigenous
Education Design**





Contact info:

Melanie Kleiss

mkleiss@lowerphalencreek.org

612-581-8636