



CITY OF DULUTH
PURCHASING DIVISION
Room 100 City Hall
411 West First Street
Duluth, Minnesota 55802-1199
218/730-5340 218/730-5922 FAX
purchasing@duluthmn.gov

Addendum 1
File # 16-0667
Indian Point Park Mini Master Plan

Questions asked are answered below. The requested Kingsbury Bay restoration concept plan is attached to this Addendum.

Q1 Regarding Deliverable A, will the City be coordinating the internal/public meetings, including selecting the venue and other logistics including notifying the stakeholders and the public?

A1 Yes

Q2 Is there a condition report available for the sewer and water infrastructure to the campground that shows the deficiencies or assessment made by the City or a hired evaluator?

A2 No, but our Engineering Staff is in the process of preparing a report that will be ready at the time of contract award.

Q3 Is there a map or layout/plan available for the water and sewer utilities going into the campground?

A3 Yes.

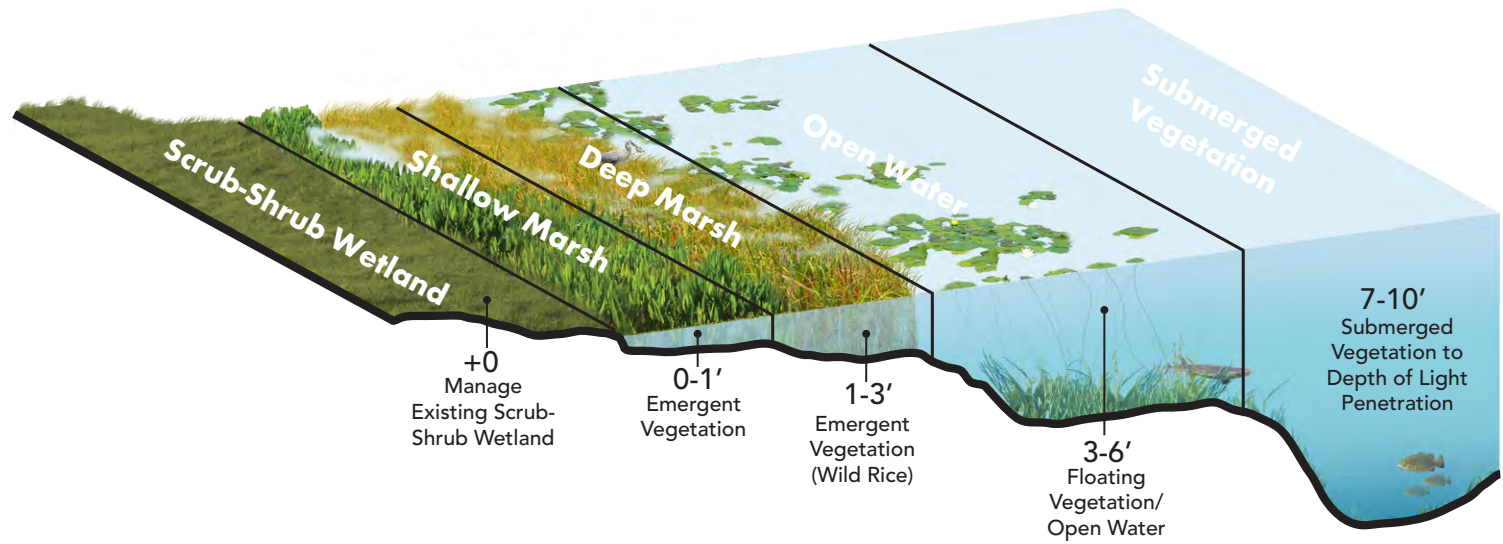
Q4 Could you provide a copy of the Kingsbury Bay restoration concept plan?

A4 Yes, see attached.

Please acknowledge receipt of this Addendum by initialing and dating Addendum #1 below the bid form on the invitation for bids.

Posted: November 17, 2016

Habitat Types to Be Restored in Kingsbury Bay



Vegetation Types



Species May Include:
Bur-reed
Arrowhead
Pickerel Weed



Wild Rice



Species May Include:
Water Lily
Eel Grass

Floating Vegetation
+ Open Water

Dredging Plan

Volume =290,000 CY

Approximate quantity volume to be dredged based of preliminary design

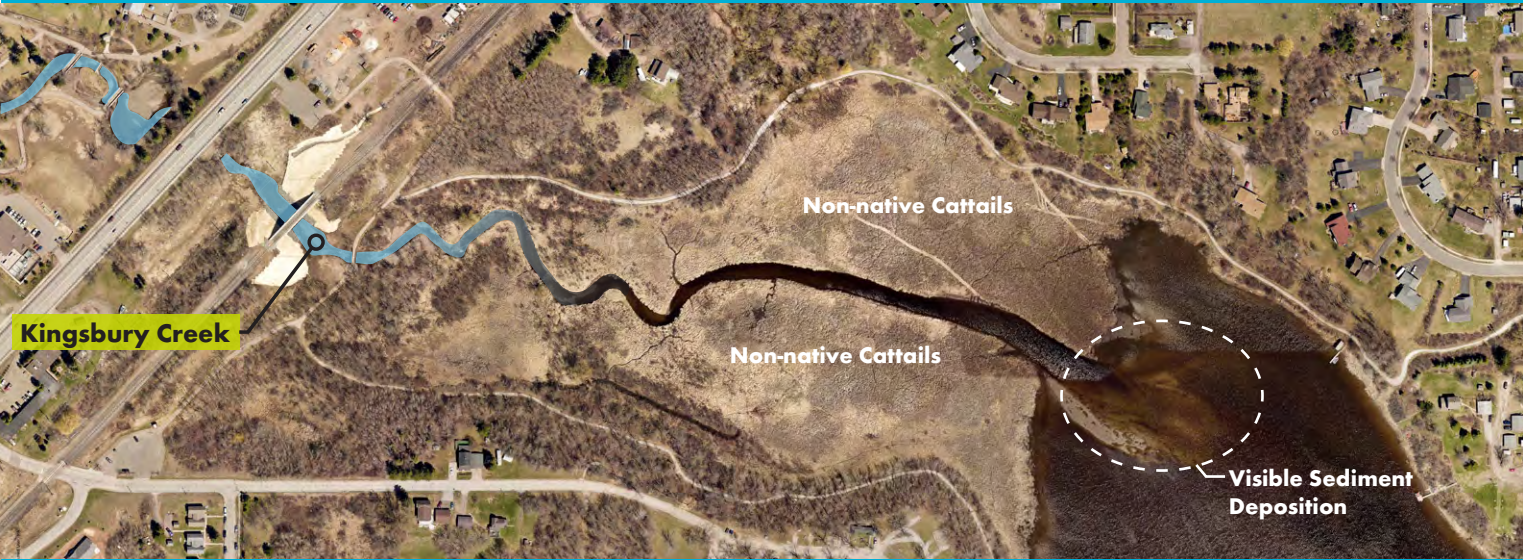
290,000 CY ≈17,059 Dump Truck Loads

Number of truck loads based on end dump truck capacity approximated to be 17 CY

Project Partners

City of Duluth, U.S. Fish and Wildlife Service, Fond Du Lac Band of Lake Superior Chippewa, Minnesota Pollution Control Agency, 1854 Treaty Authority, Natural Resources Research Institute, Lake Superior National Estuarine Research Reserve, Minnesota Land Trust, Environmental Protection Agency Water Lab, U.S. Army Corps of Engineers

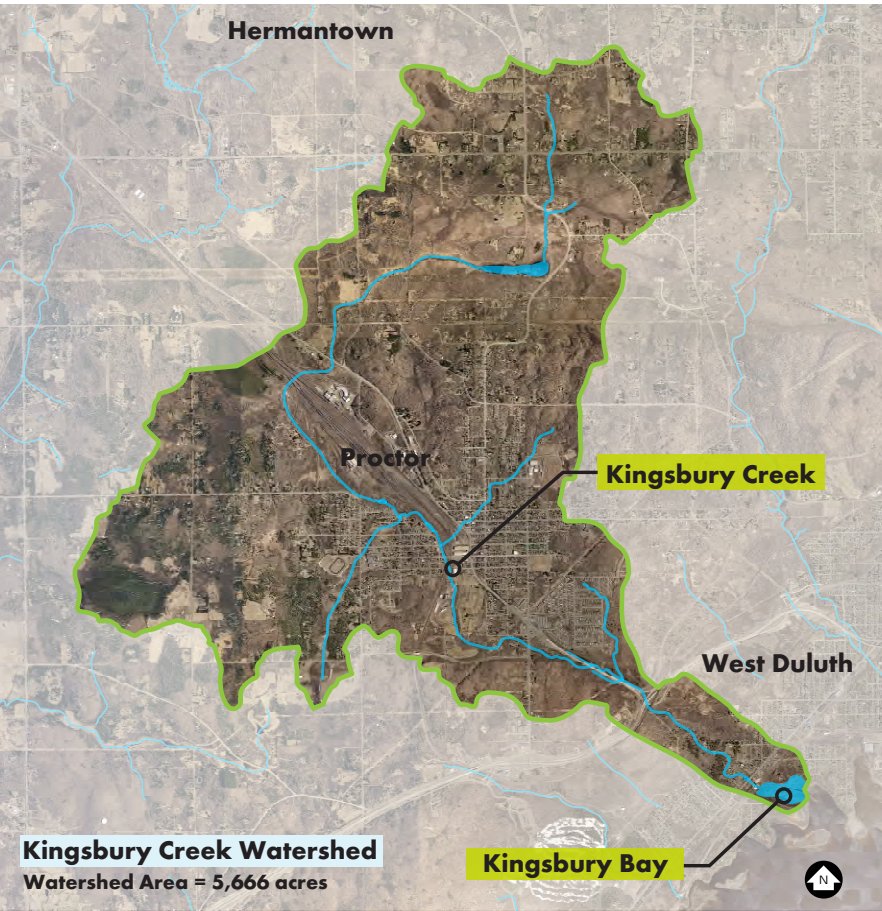
Kingsbury Bay Conceptual Restoration Design



Over the past century significant amounts of sediment has washed into Kingsbury Bay from its watershed. This has eliminated fish and wildlife habitat. As part of the larger St. Louis River estuary goals, Kingsbury Bay will be dredged to restore lost habitat.

Primary Restoration Goals

- Develop and protect open water habitat
- Create access and recreational opportunities to the bay
- Create opportunities for wild rice regeneration
- Protect what has been restored by reducing sediment washing into the bay from Kingsbury Creek



In conjunction with this project it will be imperative to stabilize sources of sediment from the watershed.

The sediment that is being deposited into Kingsbury Bay washes in from the Kingsbury Creek Watershed. Increased erosion began at the time of European settlement when forest clear-cutting opened the ground to the erosive force of precipitation and resulted in soil being washed into the creek. Today, the increase of impervious surfaces, including roads, buildings and parking lots, has resulted in larger volumes of stormwater being drained to the creek as overland flow. This stormwater carries sediment eroded from construction sites and other disturbed ground surfaces. The increased volume of water also erodes the creek channel resulting in deeper cutting of the banks and deposition in the bay.





Kingsbury Bay Concept Plan

Water Access

- Swimming Beach
- Vegetated Shoreline (non-woody)
- Kayak and Canoe Launch Access
- Fishing Pier

Nature Experience

- Boardwalk Trail
- Kiosks
- Water Garden

Scrub-Shrub Wetland

- 0-1' Depth
- Tag Alder
- Broadleaf Cattails
- Willows

Emergent Wetland

- 1-3' Depth
- Wild Rice
- Arrowhead

Partial Open Water

- 3-4' Depth
- Floating Aquatic Plants
- Potamogeton (pondweed)

Open Water

- 5-6' Depth
- Fishing
- Power Boat Access

Deep Water

- 10' Depth
- Fish Overwintering Habitat

Legend

- Park Land Boundary
- Proposed Trails
- Existing Trails
- Boardwalk
- Water Access
- 0-1' Scrub-Shrub Wetland
- 1-3' Emergent Wetland
- 1-3' Wild Rice
- 3-4' Partial Open Water
- 5-6' Open Water
- 10' Deep Water



0 150 300
Feet