



Carp River Regulatory Floodplain Mapping Update

Policy & Planning Committee

June 19, 2024

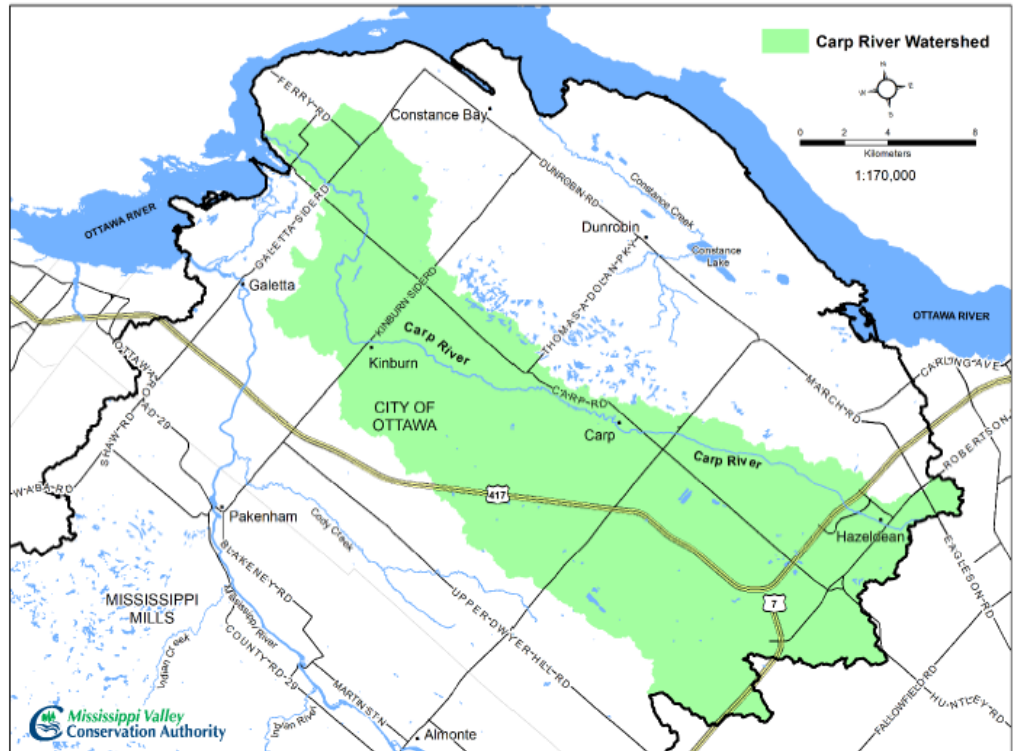
Background

- ❑ Existing regulatory hazard mapping completed in 1983
- ❑ Major development in upper Carp River watershed
- ❑ Carp River Restoration Project
- ❑ Slope hazard previously not mapped
- ❑ High flood risk area; top priority FPM project
- ❑ Completed in partnership and financial support from City of Ottawa



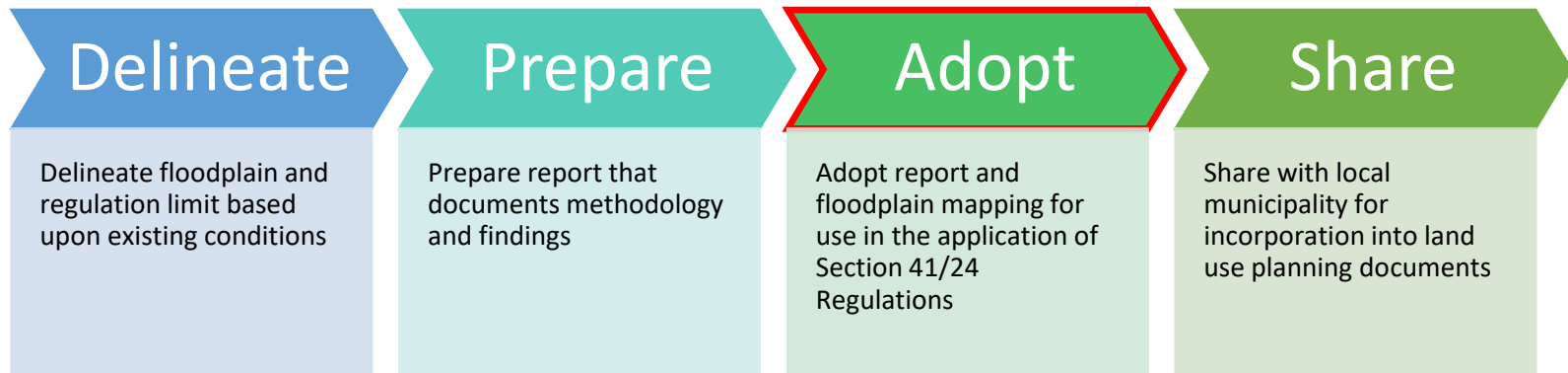
Study Area

- ❑ Carp River Watershed approx. 300 km²
- ❑ Entire river mapped approx. 50 km of floodplain
- ❑ Flood and erosion hazards mapped



This map is produced in part with data provided by the Ontario Geographic Data Exchange under license with the Ontario Ministry of Natural Resources and Forestry and the Queen's Printer for Ontario, 2020.

Approach



Municipal Technical Guidelines: *City of Ottawa Sewer Design Guidelines*

Flood Hazard Mapping Methodology (MVCA, RVCA, SNC)

Provincial Technical Guidelines: *Guidelines for Developing Schedules of Regulated Areas*

River & Stream Systems: Flooding Hazard Limit

River & Stream Systems: Erosion Hazard Limit

Federal Technical Guidelines: *Federal Land Use Guide for Flood Risk Areas*

Bibliography of Best Practices for Flood Mitigation

Federal Hydrologic and Hydraulic Procedures for

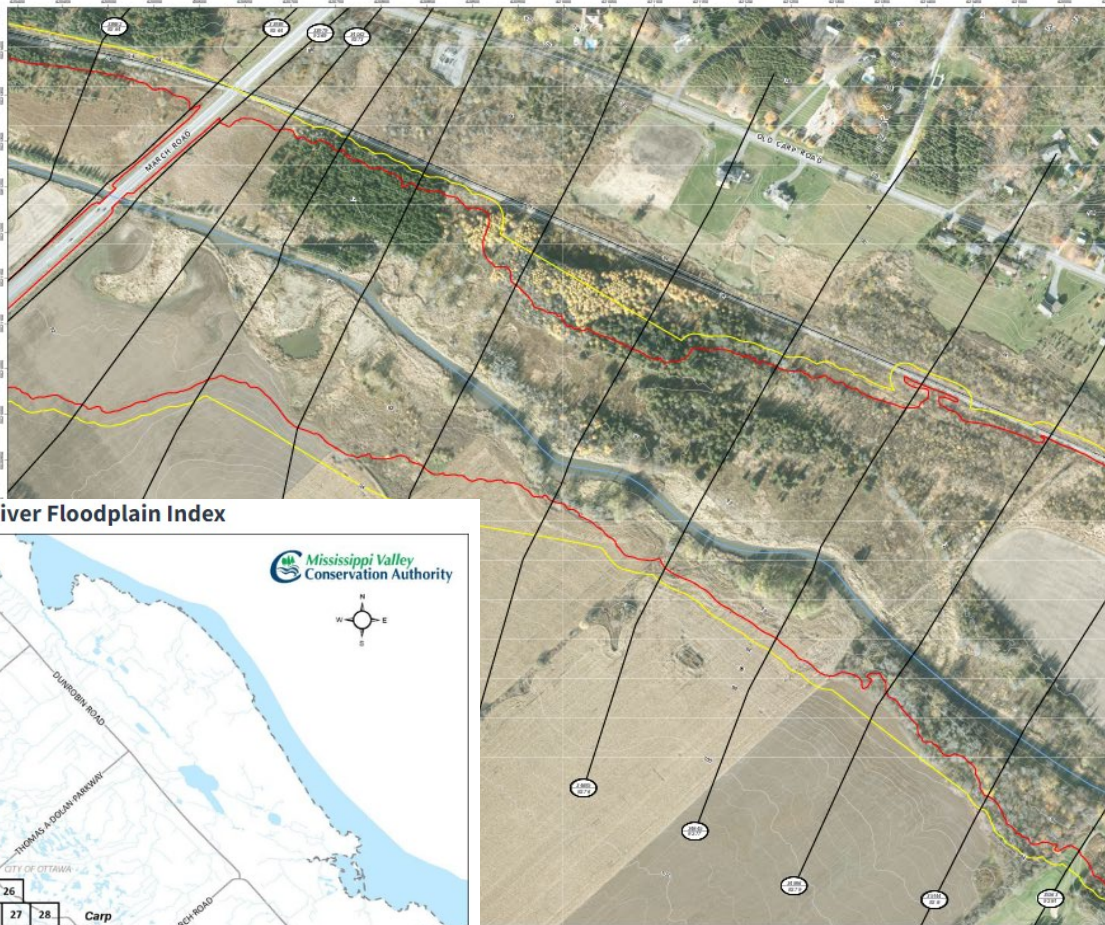
Flood Hazard Delineation

Federal Geomatics Guidelines for Flood Mapping

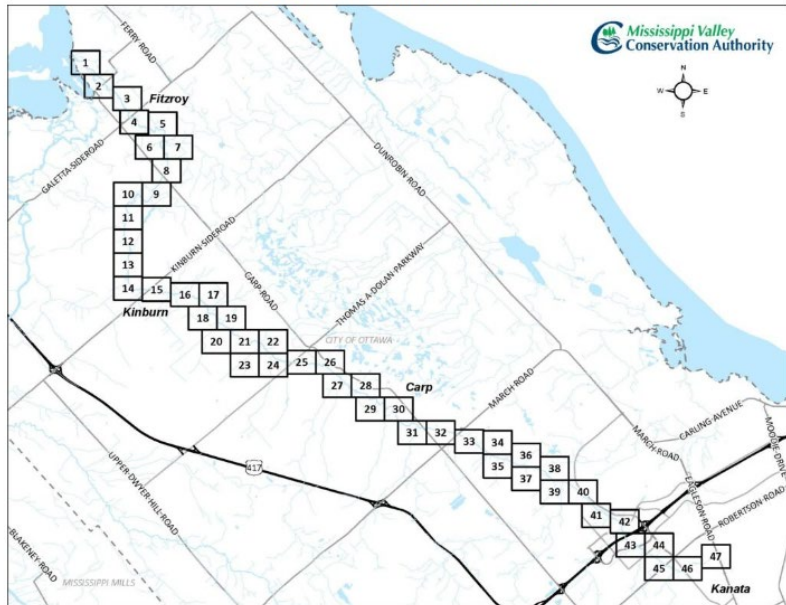
Federal Flood Mapping Framework

Technical Review Process

Floodplain Maps



Carp River Floodplain Index



DRAFT
FLOOD HAZARD AND REGULATION MAP
CARP RIVER
CARTE DU RISQUE D'INONDATION ET DE RÉGULATION

LEGEND / LÉGENDE

- Regulatory Flood Plain / La Crue Régulatoire
- Regulation Limit / Limite Réglementaire
- Contours / Courbes
- Cross Sections / La coupe transversale

Cross Section Number: 479.9
 Number of the cross section: 130.2
 Regulatory Flood Elevation (m): 130.2
 Niveau de la crue régulatoire (m): 130.2

INDEX CONTOUR INTERVAL: 1 METRES
 WITH 1.0 METRE INTERIM DATE CONTOUR
 NORTH AMERICAN DATUM 1983
 COURSES DE NIVEAU INTERVAL DE 1,0 MÈTRE
 AVEC COURSES DE NIVEAU INTERIMÉDIAIRES DE 1,0 MÈTRE
 SYSTÈME DE RÉFÉRENCE GÉODÉSIQUE NORD-AMÉRICAIN 1983

GENERAL INFORMATION
 Title / Titre: C00029
 Date / Date: 12/04/2015
 Scale / Échelle: 1:2,000
REVISIONS
 Number of revisions / Nombre de révisions: 0
 Project / Projet: 03 - Carp River Floodplain Regulation
 Projection / Projection: UTM
 Projected UTM Zone / Zone projetée: 18N
 Projected UTM Datum / Datum projeté: NAD 83



SHEET INDEX / TABLEAU D'ASSEMBLAGE



Note: The regulation limit represents all areas regulated under the Conservation Authorities Act, Section 28, Ontario Regulation 41/04. The regulation limit is defined as a buffer around all flooding hazards, erosion hazards, and wetlands. These areas are regulated in an effort to maintain the vitality of our watersheds while also protecting lives and property from natural hazards.

Remarque: La limite réglementaire représente toutes les zones réglementées en vertu de la Loi sur les offices de protection de la nature, article 28, Règlement de l'Ontario 41/04. La limite de régulation est définie comme une zone tampon autour de tous les risques d'inondation, d'érosion et de zones humides. Ces zones sont réglementées dans le but de maintenir la vitalité de nos bassins versants tout en protégeant les vies et les biens contre les risques naturels.

REVISIONS		
NO.	DESCRIPTION	DATE

SCALE 1:2,000 ÉCHELLE 1:2,000
 North 700m

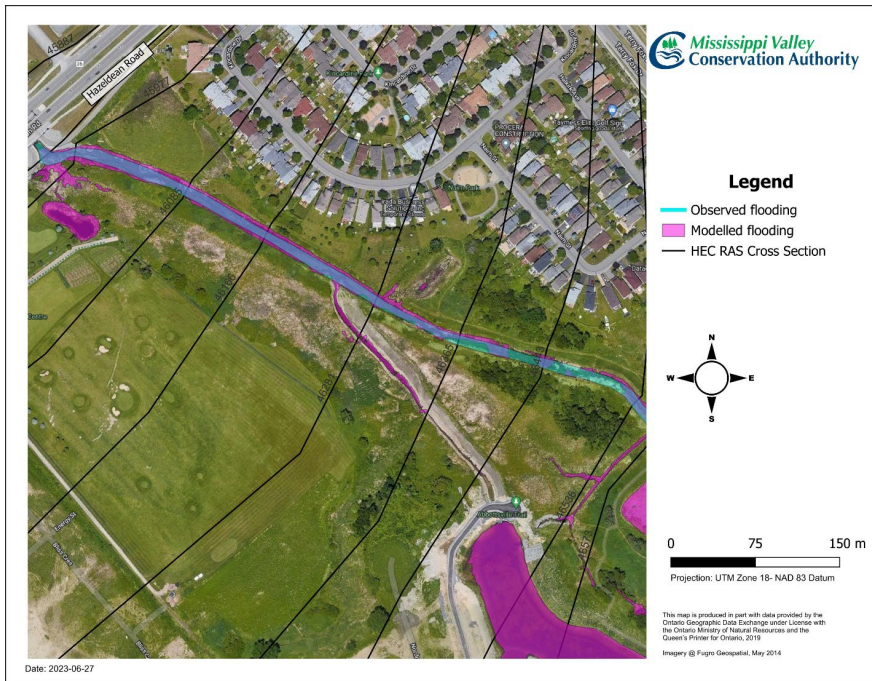
Validation

- ❑ Spring 2023 flood surveys (drone, RTK)
- ❑ WSC and MVCA streamflow data
- ❑ Historical flood marks/ observations

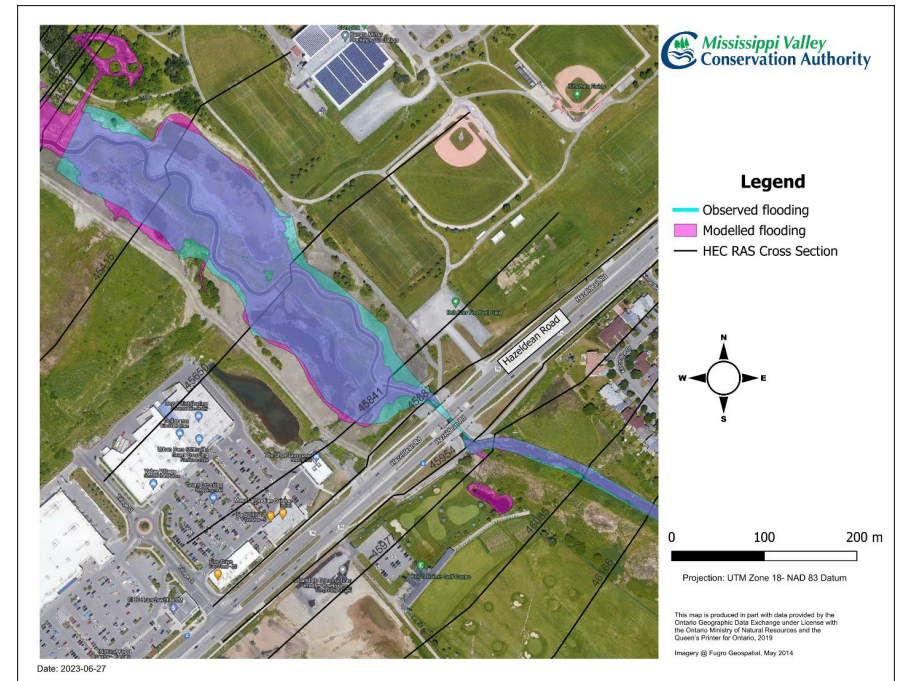


Validation

- Good agreement between modelled and observed flood extents and elevations



2023 April 11 – Kevin Haimes Golf Centre, Kanata



2023 May 1 – CRRA near Hazeldean

Public Consultation



Notice published in: Community Voice (Kanata South and North),
West Carleton Online, Ottawa Sun, Ottawa Citizen, MVCA website,
Social Media, Friends of the Carp
Letters mailed to all affected landowners
Draft maps posted on MVCA website for review and comment



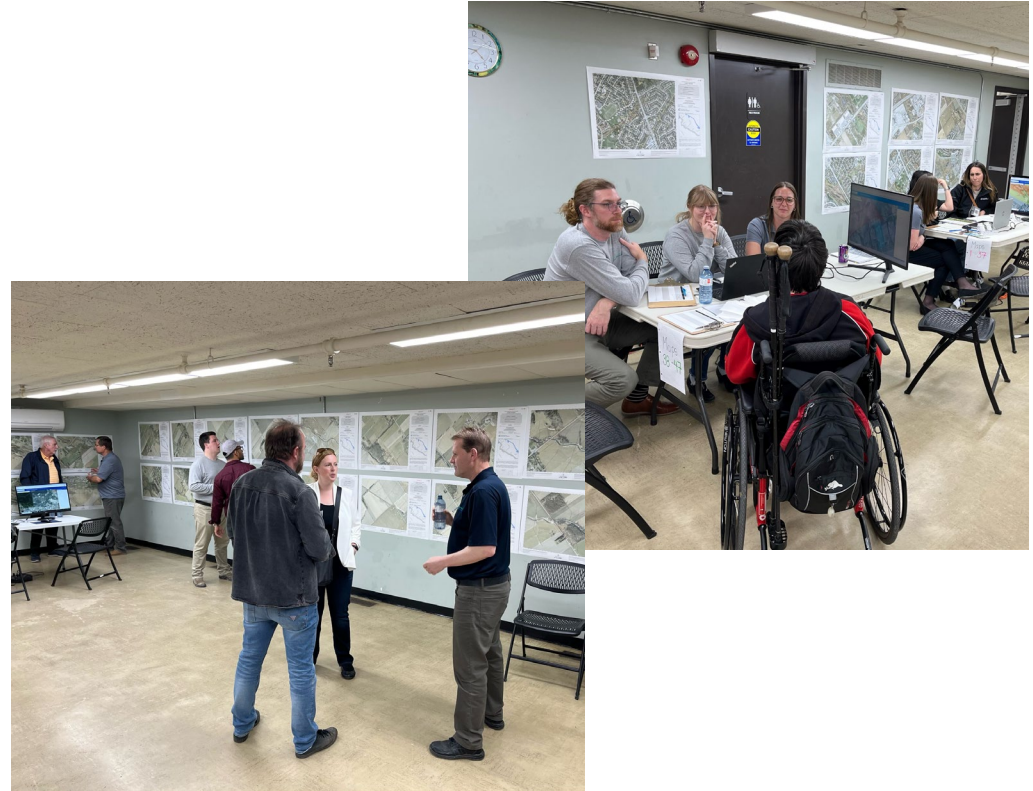
Meetings with City Councilors
Meeting with City Planning Managers
Notified Office of City Manager
Consulted developers, offered 1:1 meetings
Discussed with active permit applicants



Public Open House held on May 2nd, 2024
(Kanata Beaverbrook Community Centre)

Public Open House

- ❑ 58 people attended Public Open House
- ❑ Support from City staff and Board members
- ❑ All comments received during POH and commenting period tracked and addressed



Public Comments/Inquiries Type	Amount
General inquiry questions	5
Concerns regarding changes to floodplain	4
Questions regarding development and permitting	33

Next Steps

- ❑ Finalize floodplain maps and report
- ❑ Present study for endorsement by MVCA's Board in July
- ❑ Adopt study for MVCA's regulation (O.Reg. 41/24)
- ❑ Forward deliverables to the City of Ottawa for inclusion in municipal planning documents

