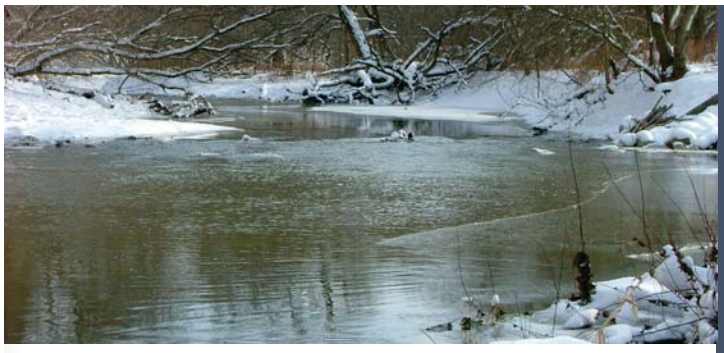


DINGMAN EA

PLANNING & ENVIRONMENT COMMITTEE

March 18, 2019
Upper Thames River Conservation Authority

OUTLINE

- Background into Conservation Authority Regulations
- Role in Development Applications
- Dingman Background
- Flood plain update and modelling
- Screening Area approach
- Next steps

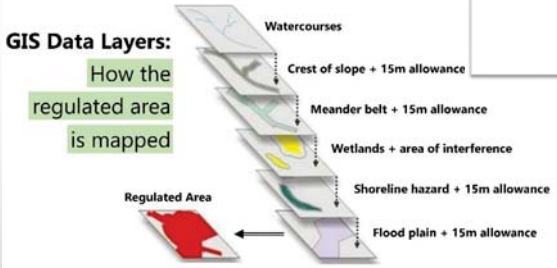
REGULATION LIMITS

- *Conservation Authorities Act*, implemented through Regulation: Ontario Regulation 157/06 *Development, Interference with Wetlands and Alterations to Shorelines and Watercourses*
- The *Conservation Authorities Act* is considered other applicable law under the Building Code
- The Act and Regulation provide direction for CA's to identify hazard areas. The area of land where the Regulation applies includes:
  - Watercourses
  - Valleys, steep slopes and areas subject to erosion (meander belts)
  - Flood plains
  - Wetlands
  - Areas surrounding wetlands

It is important to note that the text of Ontario Regulation 157/06 describes the areas regulated, features and hazards do not have to be shown on the mapping to be regulated. The Regulation has not changed. In the event that there is a conflict between the text of the Regulation and the mapping, the text prevails

REGULATION TEXT

- Mapping process established by the Province (MNRF) and Conservation Ontario in 2005



DEVELOPMENT REVIEW

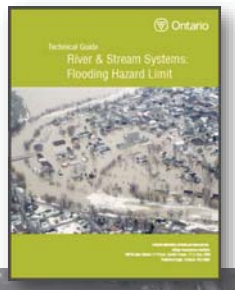
- Conservation Authorities (CA's) have a delegated responsibility to review municipal policy documents and applications under the *Planning Act* to ensure that they are consistent with the natural hazards policies contained in section 3.1 of the Provincial Policy Statement.
- CA's are also public commenting bodies pursuant to Section 1 of the *Planning Act* and regulations made under the Planning Act. As such CA's must be notified of municipal policy documents and applications as prescribed. To streamline this process, CA's may have screening protocols with municipalities.

DINGMAN EA BACKGROUND

- Initiated *the Dingman Creek Subwatershed: Stormwater Servicing Municipal Class Environmental Assessment* October 2015
- UTRCA was appointed to carry out the modelling for the Flood plain update
- The EA initiatives are intended to inform the review of future development applications within the subwatershed

FLOODPLAIN UPDATE

- Methods to identify Hazards are provided through technical guidance provided by the Province, 2002




Dingman Creek at Colonel Talbot looking south January 10, 2008

FLOOD MODELLING

- Updated to reflect new technical information to more accurately identify flood plain hazard areas.
- Became apparent that previous floodplain mapping was no longer accurate
- While we are at the beginning of the public engagement process - needed to ensure these potential areas of change were identified – not wait until the end of the process
- Modelling/Mapping update efforts will be peer reviewed

SCREENING AREA MAP

- Interim tool to aid City staff in appropriately engaging UTRCA early in planning process for proposed development in these areas
- Screening Map is intended to capture all Natural Hazards as identified in the PPS, 2015, *including 3.1.3, impacts of climate change*.

For Information Reports

- Planning & Environment Committee Nov 12, 2018 & March 18, 2019
- UTRCA Board of Directors Nov 27, 2018 & Feb 22, 2019

SUMMARY OF NEXT STEPS

- Further review and refinement of the hazard areas will continue
- Webpage dedicated to Flood & Erosion Hazard mapping updates and include answers to Frequently Asked Questions
- Peer review/Advisory Services of the modelling results has been initiated
- UTRCA and City Implementation Team continues
- Public consultation and engagement through the EA process
- EA will consider options for flood mitigation and/or policy approaches on impacted lands


Highbury Ave. at Dingman Creek, February 2018 looking northwest

QUESTIONS

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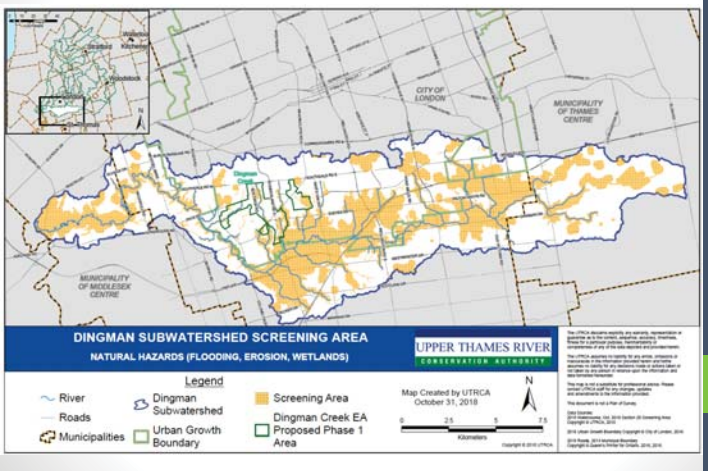
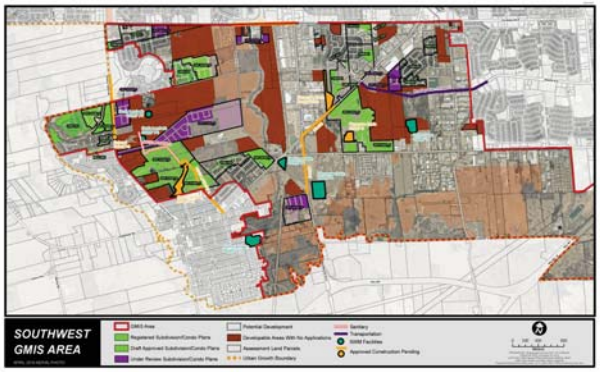
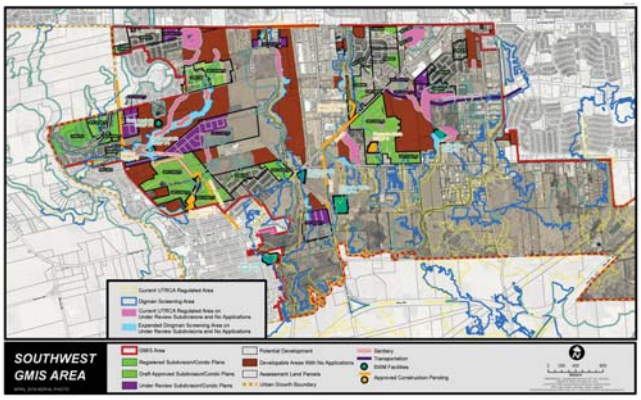
SCREENING AREA



Southwest Growth Area
7-Year (2019-2026) Servicing Plan



Screening Area



REVIEW PROCESS

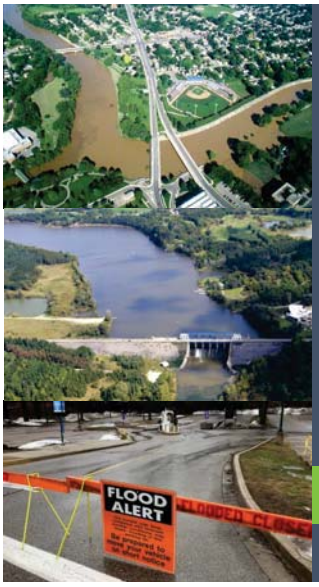
- Registered & Draft Approved and Under Review Plans of Subdivisions / Condominiums within the Southwest Growth Area;
  - Where the 'Principle of Development' has been established under the Planning Act, the Authority will work with the proponent and the municipality to pursue a resolution where possible
  - The UTRCA review will ensure that the lands have appropriate access, minimize risk to public health and safety, and not create new or aggravate existing hazards
  - Under Review Plans also need to consider with other natural heritage considerations


Dingman Creek at Colonel Talbot looking south January 10, 2008

MITAGATION

Build Resilient watersheds to prevent flooding. Flood Mitigation can include both structural measures and policy approaches. Examples may include:

- Structural Approaches:
  - Watercourse channelization
  - Infrastructure improvement (e.g. roads, culverts, bridges)
  - Low Impact Development
- Policy Approaches
  - Two Zone Floodway Flood Fringe
  - Requirements for flood proofing

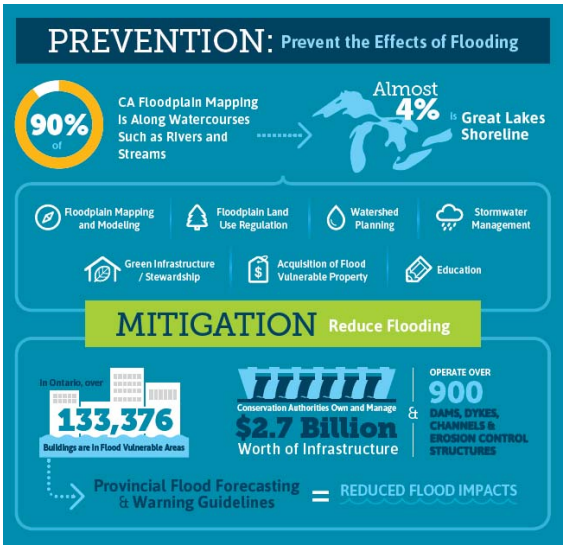


CONSULTATION & ENGAGEMENT

- December 5th, Dingman Creek EA Stakeholders meeting
- December 17th, Landholders Meeting
- December 19th GMIS Meeting at the City
- Planning & Environment Committee today
- Will continue to follow the EA consultation schedule

Southwest Growth Area
7-Year (2019-2026) Servicing Plan

Ext. Servicing	2019	2020	2021	2022	2023	2024	2025
Opening Supply	325	1547	2670	2574	2996	2886	2845
Add: New Supply	1490	1391	172	690	158	227	-
Subtotal	1815	2938	2842	3264	3154	3113	2845
Subtract: Demand	268	268	268	268	268	268	268
Years of Supply	**6.8**	**11.0**	**10.6**	**12.2**	**11.8**	**11.6**	**10.6**
Remaining	1547	2670	2574	2996	2886	2845	2577


PREVENTION: Prevent the Effects of Flooding
90% of
CA Floodplain Mapping Is Along Watercourses Such as Rivers and Streams
Almost 4% is Great Lakes Shoreline
Floodplain Mapping and Modeling
Floodplain Land Use Regulation
Watershed Planning
Stormwater Management
Green Infrastructure / Stewardship
Acquisition of Flood Vulnerable Property
Education
MITIGATION Reduce Flooding
In Ontario, over
133,376
Buildings are in Flood Vulnerable Areas
Conservation Authorities Own and Manage
$2.7 Billion
Worth of Infrastructure
OPERATE OVER
900
& DAMS, DYKES, CHANNELS & EROSION CONTROL STRUCTURES
Provincial Flood Forecasting & Warning Guidelines
= REDUCED FLOOD IMPACTS