

# **Emma Street to Earl Street Pedestrian Bridge**

## **Schedule B, Environmental Assessment Results**

**City of Guelph**

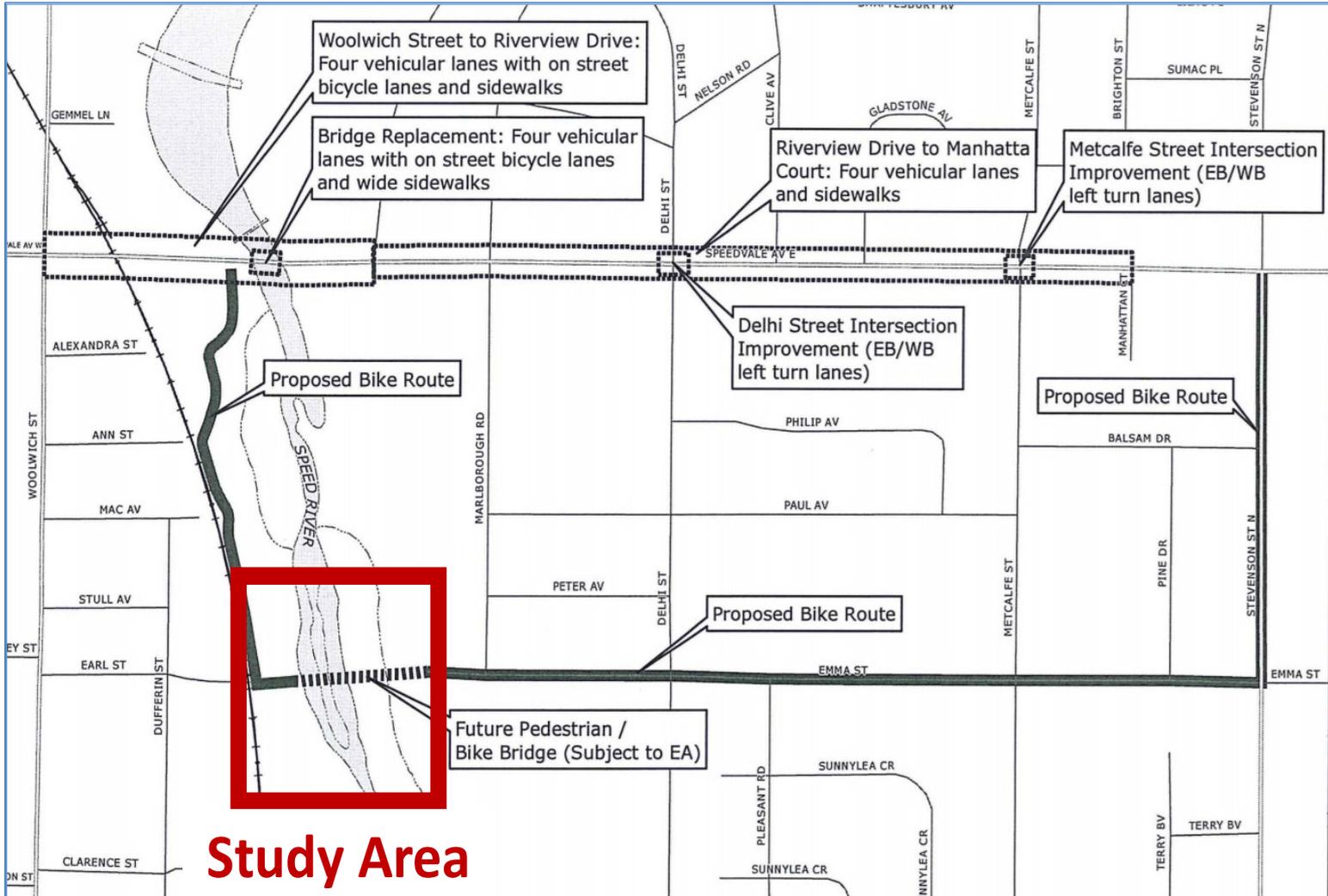
**Ken Vanderwal, P.Eng., Manager Technical Services**

**Leah Lefler, Planner II Environment**

# Site Location



# History



# Overview of EA process

- The EA followed Phases 1 and 2 of the planning and design process which involved the following studies:
  - ecological inventories
  - geomorphic assessment
  - hydraulic analysis
  - archaeological assessment
  - hydrogeological review
  - generation and evaluation of alternatives
  - public consultation
  - selection of the preferred solution
- Opportunity statement

“The Emma Street to Earl Street bridge shall ultimately be designed as a pedestrian and cycling bridge, that provides a car free route for cyclists and pedestrians traveling between downtown and the north-east corner of the City of Guelph, with the least impact on the natural environment within the Speedvale River Valley.”
- Evaluation criteria seek to balance needs

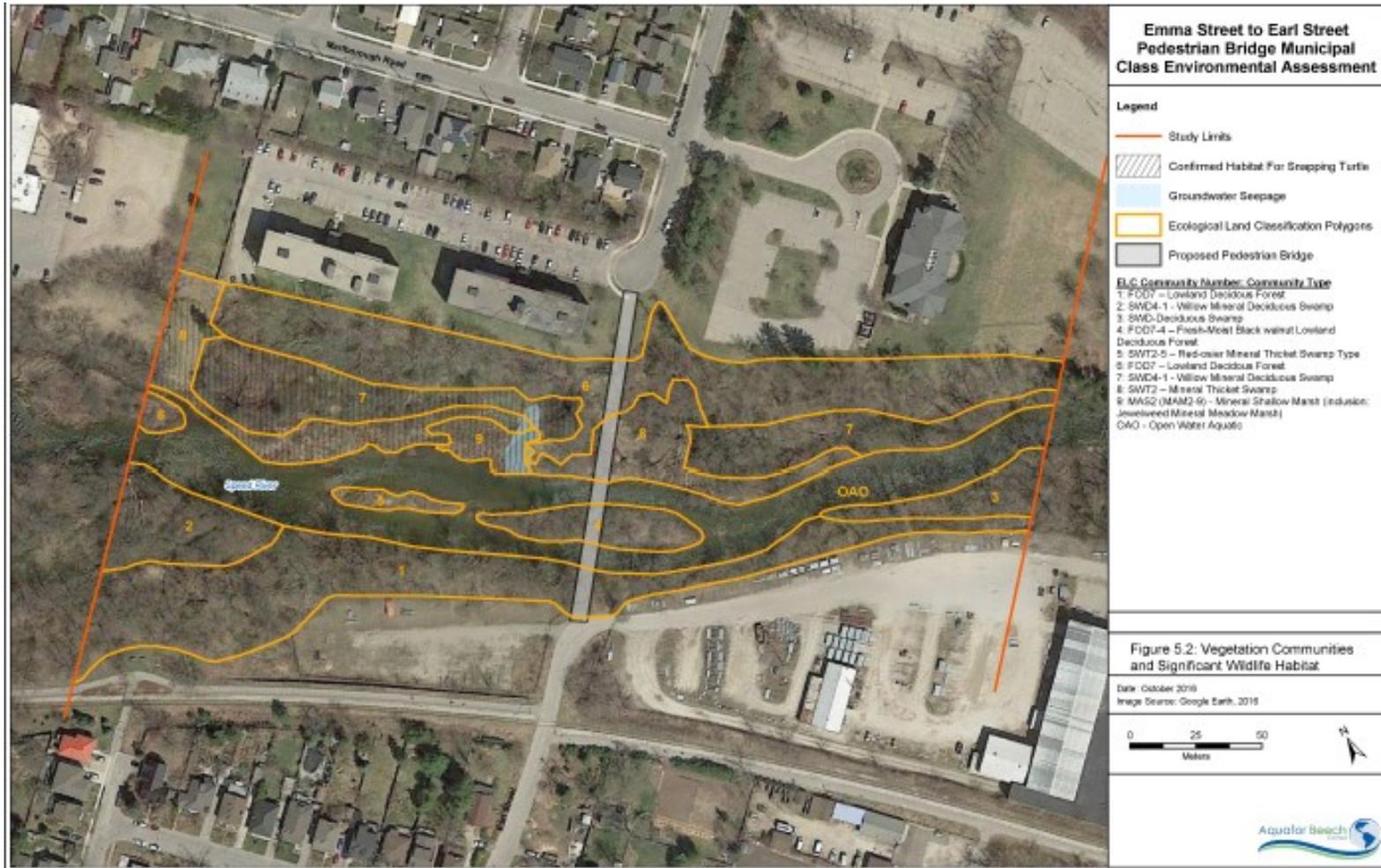
# Public Consultation

- Public Information Centre #1 was held on October 25th, 2016 to refine the Opportunity Statement.
- Public Information Centre #2 was held on June 7, 2017 to provide feedback on existing conditions, evaluation criteria, preliminary evaluation of alternatives and preferred alternative.
- What we heard
- Public feedback has been incorporated into the preferred alternative

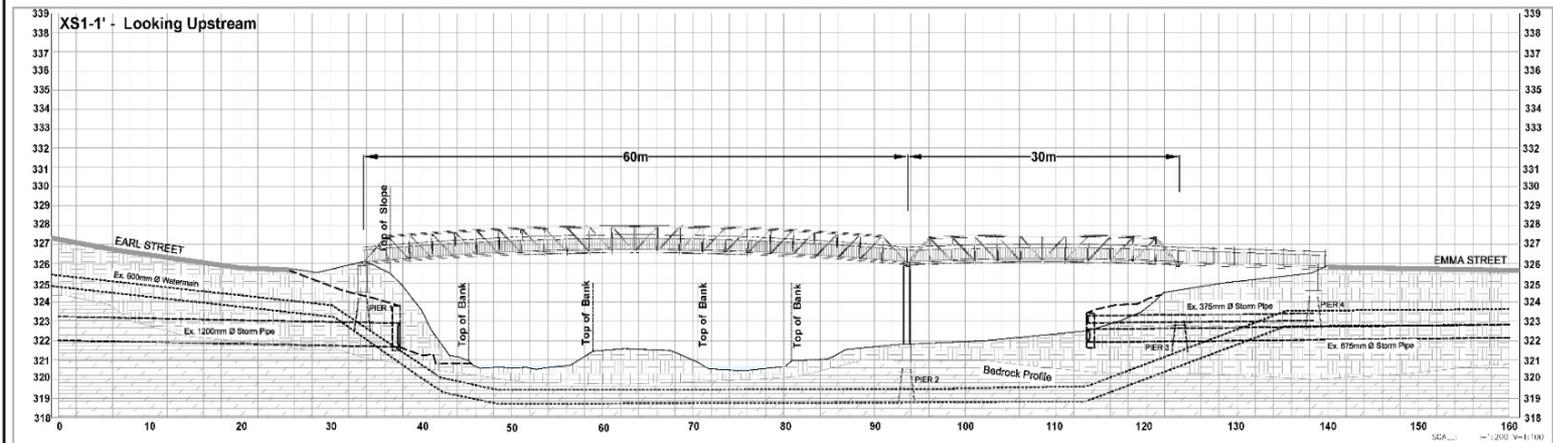
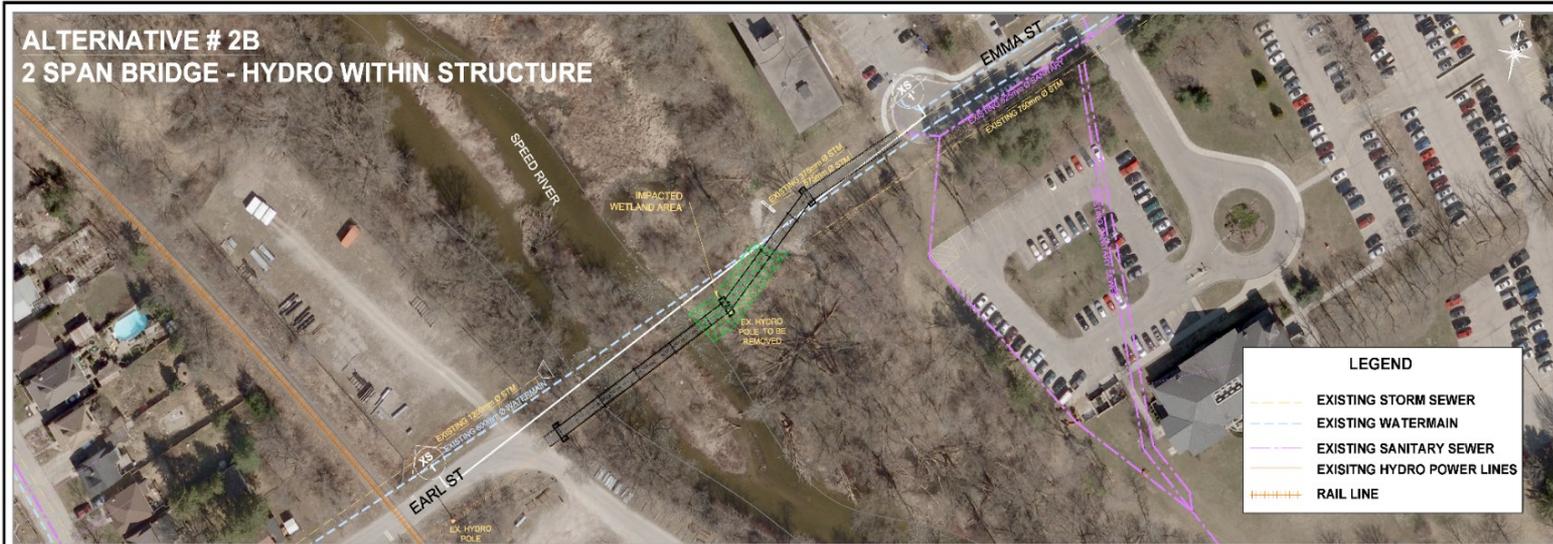
# Evaluation of Alternatives

	Null- Do Nothing	Single Span	Double Span Hydro Relocation	Double Span Hydro within Structure	Triple Span
<b>Physical &amp; Natural Criteria</b>	11	10	7	10	3
<b>Hydraulics and Flooding</b>	4	4	2	3	1
<b>Aquatic Habitat</b>	3	3	3	4	1
<b>Terrestrial Habitat</b>	4	3	2	3	1
<b>Social and Cultural Criteria</b>	6	13	12	12	11
<b>Public Safety</b>	0	4	4	4	4
<b>Landowner Impacts</b>	1	2	2	2	2
<b>Benefits to the Community</b>	1	4	4	4	4
<b>Cultural and Archaeological Impacts</b>	4	3	2	2	1
<b>Technical and Engineering Criteria</b>	10	11	10	10	7
<b>Impact on Existing Infrastructure (local)</b>	4	4	3	3	1
<b>Impact on Existing Infrastructure (external)</b>	0	4	4	4	4
<b>Lifespan of Works</b>	4	3	3	3	2
<b>Policy Conformity</b>	2	0	0	0	0
<b>Economic Criteria</b>	8	2	5	5	5
<b>Capital Costs</b>	4	1	2	2	3
<b>Operations and Maintenance Costs</b>	4	1	3	3	2
<b>Cumulative Score</b>	35	36	34	37	26
<b>Rank</b>	3	2	4	1	5

# Environmental Considerations



# Preferred Alternative 2B



					EMMA STREET @ EARL STREET PEDESTRIAN BRIDGE				
					Plan and Section				
MANAGER	1/23/2017	ISSUED FOR		DESIGN	DM	CONTRACT No.			
OPERATION DIVISION	DATE	REVISIONS	INITIALS	SIGNED	SCALE	PROJECT No.	DRAWING	NO.	SHEET No.
						23/03/2017			

# Strategic Plan Alignment

- The Emma Street to Earl Street pedestrian bridge will align with the following strategic plan priorities:
  - **Sustaining our Future:** Protecting and enhancing the green infrastructure provided by woodlands, wetlands, watercourses and other elements of Guelph's natural heritage system.
  - **Navigating Our Future:** Improving connections to workplaces in Guelph, investing in and promoting active transportation.
  - **Building Our Future:** Continuing working to develop new assets that respond to Guelph's growing and changing social, economic and environmental needs.