



Public Meeting – Brossard Deconstruction of the Original Champlain Bridge

October 29, 2020





Presenters

- **Moderator: Jacques Bénard**
Senior Vice-President, Hill & Knowlton Strategies
- **Nathalie Lessard**
Director, Communications, JCCBI
- **Dominique Blouin**
Director, Champlain Bridge Deconstruction Project, JCCBI
- **Simon Hébert**
Assistant Project Director, Nouvel Horizon Saint-Laurent

Outline

- + Project Overview
- + Project Components
- + General Timetable
- + Deconstruction Methods
- + Work Updates
- + Participatory Approach
- + Follow Our Progress
- + Work Monitoring Committee





Project Overview

Nathalie Lessard

Director, Communications, JCCBI

Deconstruction Project



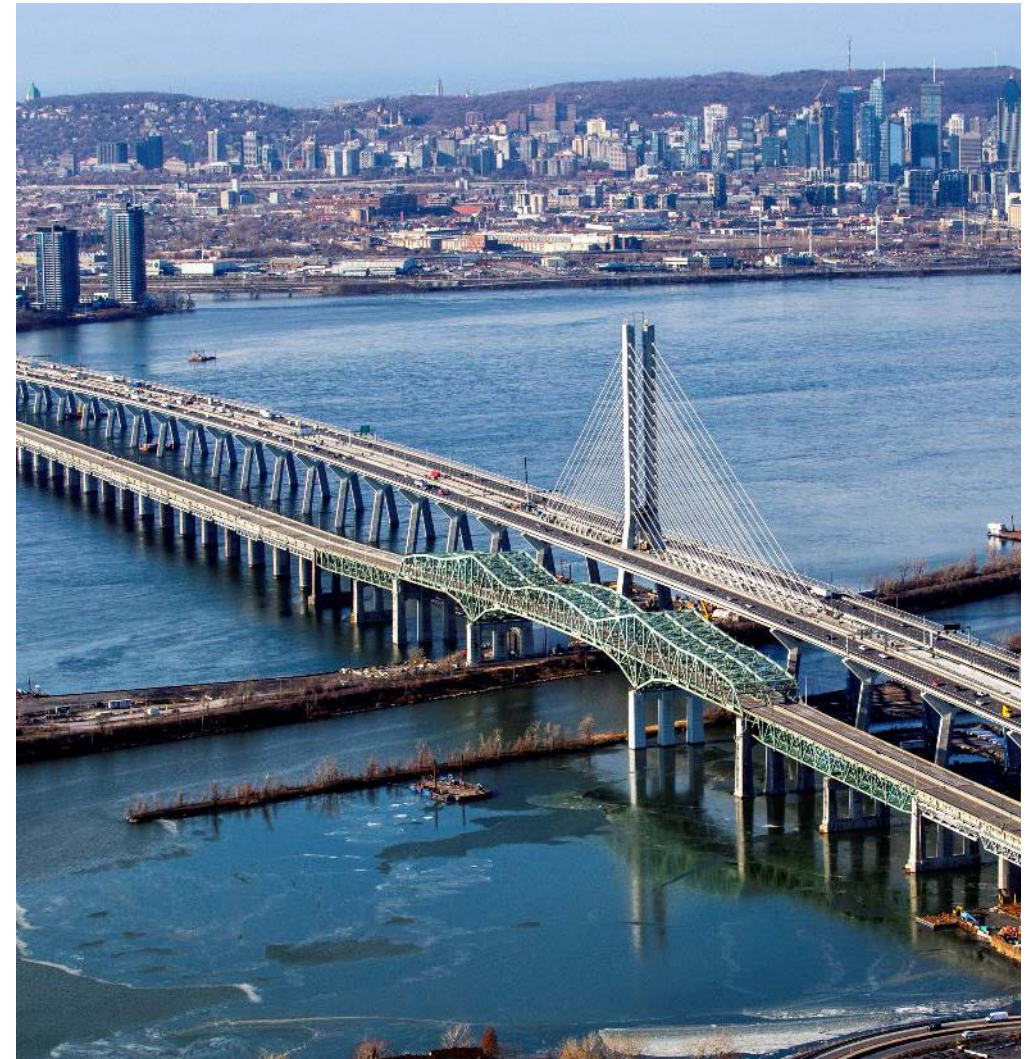
The project includes:

1. Deconstruction work
2. Environmental protection measures
3. Material reuse
4. 10 Research and Development projects
5. Héritage Champlain (shoreline redevelopment)

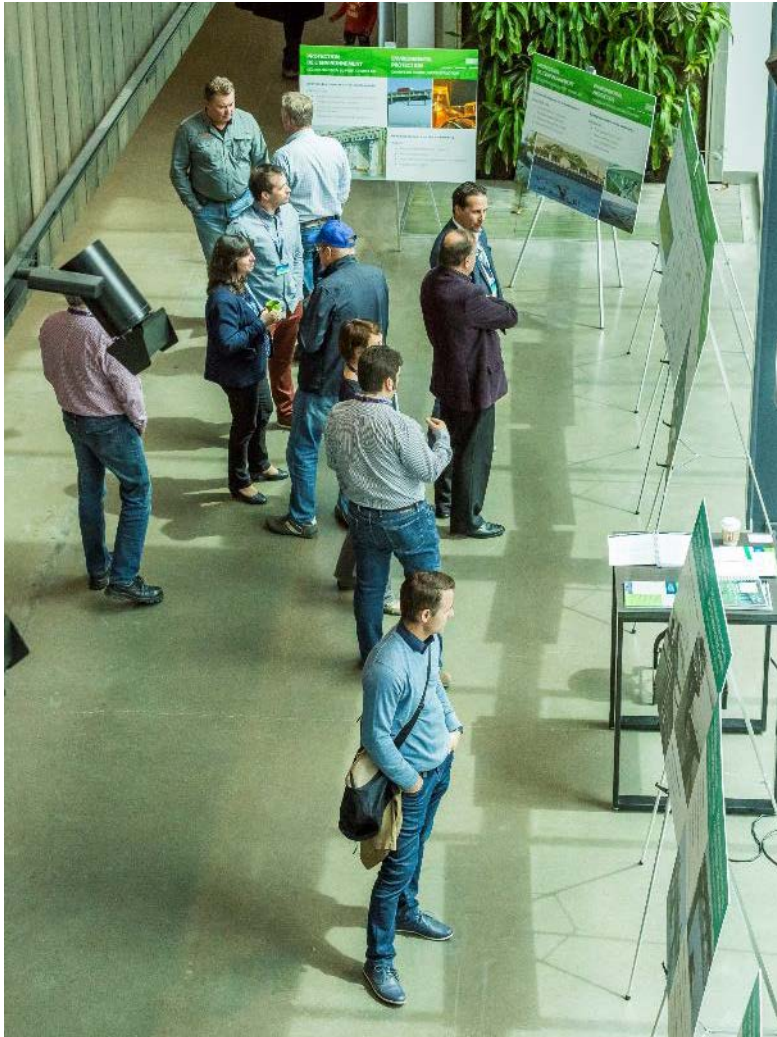
Duration of the deconstruction: **43 months**

Design-build method:

- + Nouvel Horizon Saint-Laurent (NHSL) is responsible for carrying out the work
- + JCCBI is responsible for liaising with the public, partners and the media



Our Goals for this Project



- + Safely deconstruct a 3.4-kilometre bridge
- + Minimize the environmental footprint of the project
- + Ensure the health and safety of all workers on site and nearby residents
- + Redevelop the shorelines at the end of the project
- + Include the public and stakeholders as early as possible to build trust and gain their support

Project For and With the Public



- + Public and stakeholder involvement in the past 18 months
- + Public interest and participation:
 - **800 people went on guided tours** of the bridge
 - **5000 people** attended the public consultations
 - Several **shoreline redevelopment scenarios** are being studied

JCCBI recognized nationwide!



- + **Honourable Mention – IAP2 Excellence in Public Participation Awards:**
Award for advancing the practice of public participation – creativity, inclusion and innovation
- + JCCBI's participatory approach for the Champlain Bridge deconstruction



Project Components

Dominique Blouin

Director, Champlain Bridge Deconstruction Project, JCCBI



Sustainable Development Approach



Minimize impacts on the environment and people's quality of life

The goal is to achieve Envision certification for the deconstruction

- + Keep some components in place for redevelopment and heritage purposes
- + Reuse and recycle materials
- + Dispose of materials in accordance with standards
- + Make the project carbon-neutral





Fish habitat compensation project

Redevelop farmland in Saint-Ignace-de-Loyola (Saint-Pierre Lake archipelago) into a floodplain.

- + Allow fish to spawn and populate the river
- + Help protect biodiversity in this region
- + Permanent positive effects → compensation in 6 of the project's 7.2 hectares

Research project on efficacy of fish migration corridors (with the INRS)

Material Reuse



- + **287,000 tonnes of materials to be reused**
 - 250,000 tonnes of concrete
 - 25,000 tonnes of steel
 - 12,000 tonnes of asphalt
- + **How?**
 - Maximize material re-use and recycling
 - Use facilities in the Montreal area
- + **A traceability system will be set up**

Details of this program to come

Research and Development



10 Research and Development projects

- + 7 Canadian research bodies
- + Projects involving structural elements from the bridge (concrete, steel and reinforcements)
- + Recovery of some components for the program
- + R&D projects planned as per NHSL's schedule



Shoreline redevelopment project (after the deconstruction)



- + Sector: Estacade and three shoreline sites
- + Preliminary studies and public consultations (information days, online consultations, co-creation workshops, design charrette)
- + Several scenarios are being studied to develop a “master concept”





General Timetable

Simon Hébert, Assistant Project Director, NHSL

General Timetable

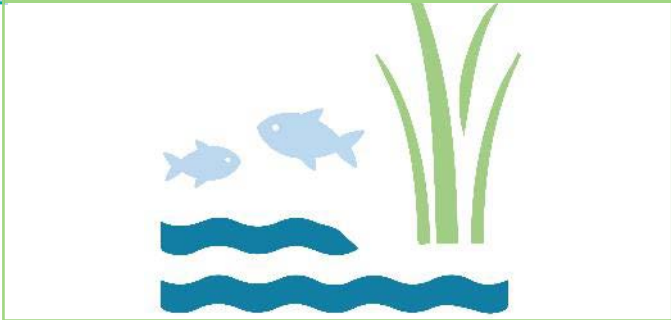


Section 5: St. Lawrence River | Summer 2020 – Winter 2024

Section 6: Seaway | Spring 2021 – Winter 2024

Section 7: Brossard | Spring 2022 – Winter 2024

Shoreline Redevelopment
2024-2025



2020

2021

2022

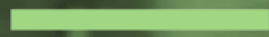
2023

2024

2025



Deconstruction Methods



Main Work Areas



Video



<https://youtu.be/yW7oLe7UJWE>

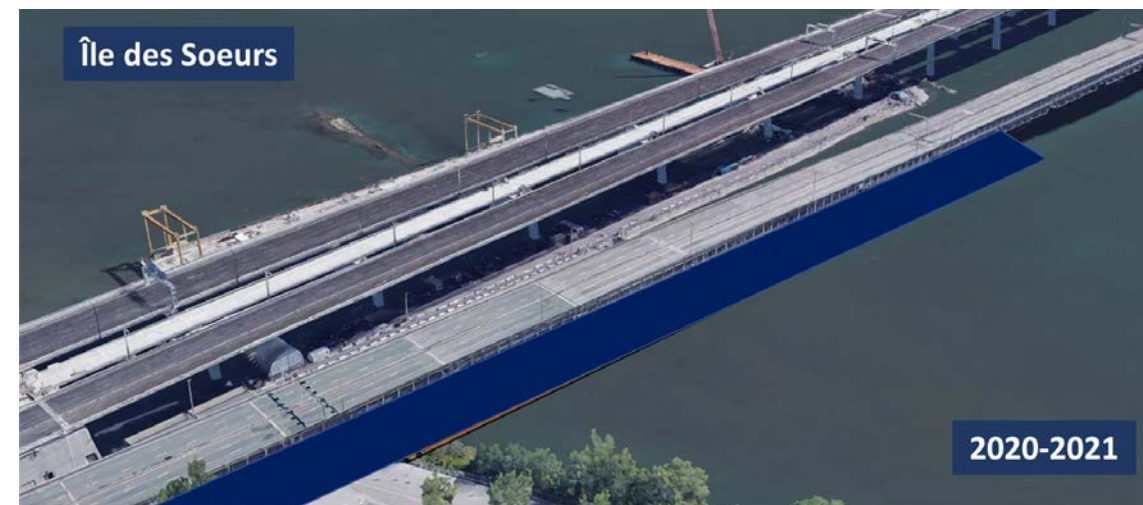
Deconstruction From the Shoreline



Île des Sœurs and Brossard

Method: Mechanical deconstruction with standard equipment from jetties

- + Preparatory work
 - Dismantling of components (overhead signage, lights, etc.)
 - Removal of R&D components
 - Removal of permanent reinforcements
- + Installation of temporary supports
- + Deconstruction of spans and piers
- + Disposal and removal of debris for reuse
- + Restoration of the area



Deconstruction From the River



65% of the project: Away from residences

Method: System of platforms attached to lifting towers installed on a catamaran barge

- + Preparatory work
 - Dismantling of components
 - Removal of R&D components
 - Removal of permanent reinforcements
- + Span taken down using the platform system
- + Deconstruction of the span on the catamaran barge
- + Barge-based mechanical deconstruction of the piers and footings above and below the water level
- + Debris disposal by barge



Steel Structure – Seaway



Methods: Strand jack system, crane on the jetty and dike, and high-capacity excavators

- + **Suspended span:** Removal and lowering of the suspended span (2200 tonnes) onto a barge using strand jacks and deconstruction piece by piece on the barge
- + **Cantilever sections and anchor spans:** Taken apart piece by piece using a crane on the jetties and the dike
- + Mechanically deconstructed with high-capacity excavators
- + Work restrictions when the seaway is in operation





Work Updates

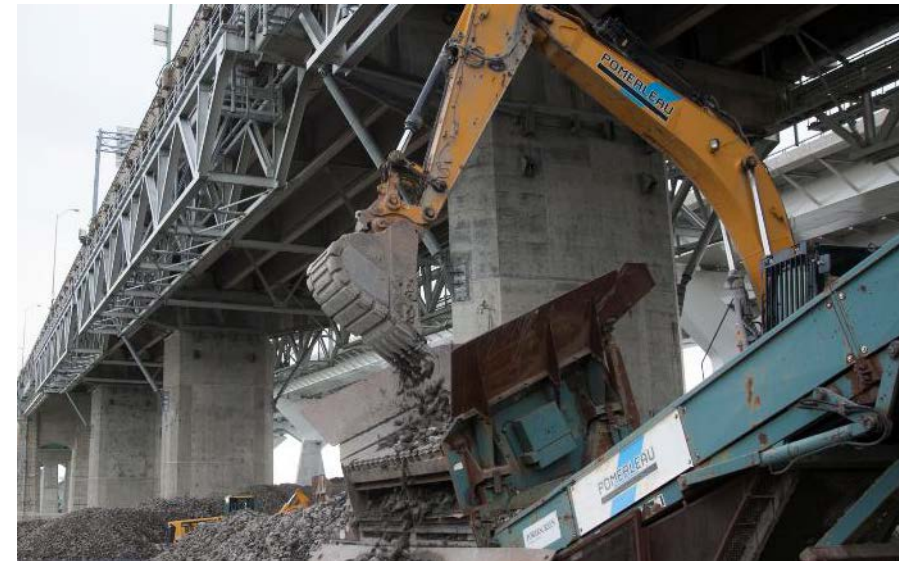


Ongoing Work – Jetties



Construction of temporary jetties: Île des Sœurs (IDS) and Brossard

- + IDS duration: 4 months
- + Brossard duration: 2 periods of 4 months
- + Trucking will be important during those periods, not indicative of the rest of the project
- + Measures in place:
 - Trucking: tarps, cleaning and spraying
 - Fish habitat: fishway, turbidity monitoring
 - Boaters: maritime signalling and communications
- + Status:
 - No environmental monitoring criteria have been exceeded (dust, water quality and vibrations)



Work to Come – Brossard



- + Until 2022, not much activity in the Brossard sector, aside from construction of the jetty in the Lesser La Prairie Basin.
- + Brossard: Only road access to the Champlain Bridge. Removal of materials from the bridge, such as the dismantled modular trusses.



La Riveraine Bicycle Path



- + Path currently open with flaggers on site (truck traffic).
- + Spring 2021: Solution to come to keep this path safely as per risks from the deconstruction activities.



Residents' Quality of Life



On-site measures in place

- + Marked transportation routes
- + Expected truck traffic: approximately 20 trucks/day, during off-peak hours
- + Dust control (foggers, windbreaks, road cleaning, etc.)
- + Sound level meters (sound levels)
- + Air-quality measuring stations
- + Site issues addressed in less than 2 hours







Follow Our Progress

Nathalie Lessard
Director, Communications, JCCBI



Communication Tools



Follow the project on our different platforms:

- + Website: champlaindeconstruction.ca
 - Details about all aspects of the project
 - Cameras with live images from the site
 - Work advisories
- + [Newsletter](#)
- + Work advisories for residents who live near the site
- + Two public meetings a year (2 in Brossard and 2 on IDS)
- + Questions and complaints: communications@pjcci.ca
- + Social media





Work Monitoring Committee



Work Monitoring Committee



- + **Goal:** Perform follow-up to ensure the local community can live peacefully with the Champlain Bridge deconstruction site
- + **Composition:**
 - + 6 citizens
 - + 1 municipal representative
 - + 2 JCCBI representatives
 - + 1 or 2 NHSL representatives
- + 4 meetings a year
- + One committee for Brossard and one for Île des Sœurs



Apply to sit on a Work Monitoring Committee



- + To submit your application, send an email to communications@pjcci.ca
- + Please send us the information below:
 - + Name
 - + Mailing address, email, phone number
 - + Why do you want to be on the committee?
 - + Commit to attend 4 virtual meetings a year: about 2 hours during weekday evenings





DÉCONSTRUCTION **PONT CHAMPLAIN**
CHAMPLAIN BRIDGE DECONSTRUCTION

Participez à la conversation / Join the conversation

JacquesCartierChamplain.ca

