



**PATTULLO BRIDGE
REPLACEMENT**



transportation
investment
corporation

Monthly Status Report

Reporting Period
May 2023

1. Introduction

1.1 Project Overview

The Pattullo Bridge is a key connection between the communities of Surrey and New Westminster.

The new toll-free four-lane bridge will provide important improvements for everyone using the bridge, including people who are driving, cycling, or walking, as well as communities on either side of the bridge.

The new bridge will provide:

- A safer crossing for all bridge users with modern, wider lanes, separated by a centre median barrier.
- Dedicated walking and cycling lanes, separated from traffic by a barrier on both sides of the bridge.
- Better connections to, from and near the bridge.

The new bridge is scheduled to open in 2024. The existing bridge will remain in use until the new bridge is open to traffic. Once the new bridge is open, the existing bridge will be removed.

Additional information and updates about the Project can be found on the Project's website <https://www.pattullobridgereplacement.ca>.

1.2 Project Delivery

Transportation Investment Corporation (TI Corp), a provincial Crown corporation, is delivering and overseeing this \$1.377 billion Project. The Project is being delivered under B.C.'s Community Benefits Agreement and the Project workforce is being provided by B.C. Infrastructure Benefits Inc.

The Fraser Crossing Project Corporation (Contractor) has been selected to design and build the new bridge. The Province will own and maintain the new bridge when it is complete.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

1.3 Project Goals









Measure specific data to confirm the following Project goals and objectives are being met in accordance with the Project's **Performance Measurement Plan**:

1. Provide a **structurally sound bridge crossing** to maintain a critical local and regional connection;
2. **Improve safety for all users** with modern lane widths, road curvature, centre median barrier and separated pedestrian and cycling lanes; and
3. **Improve connectivity, reliability and modal choice** while supporting environmental objectives.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

2. Project Update

2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within the approved scope.		- The Project includes a new four-lane bridge, improved connections to, from and near the bridge and dedicated walking and cycling lanes and is on track to be delivered within the approved scope.
	Schedule	Project delivered within the approved schedule.		- Schedule related risks and issues continue to be monitored. The new bridge is scheduled to open in 2024.
	Budget	Project delivered within the approved budget of \$1.377 billion.		- Project spending for the month of May 2023 was \$11.2 million. - Total Project spending to date is \$711.8 million; the Project is forecast to be delivered within budget.
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.		- Monitored the implementation of the health and safety program and provided on-site monitoring. - There have been 5 lost time injuries on the Project to date. - Lost Time Injury Frequency Rate (LTIFR) for the Project is 0.61 which is less than the average Injury Rate for Bridge, Overpass, or Viaduct Construction or Repair from 2021 is 1.2 per WorkSafeBC .
	Quality	Implement an effective Quality Management System.		- Continued monitoring the Structural Steel fabrication, including steel component testing.
	Environmental	Ensure our work is performed in an environmentally responsible manner.		- Continued discussions with the Contractor on environmental offsetting requirements for the Existing Bridge Demolition Fisheries Act Authorization (FAA). - Continued discussions between the Contractor, Project Team and environmental regulators on environmental performance.
	Archaeology	Ensure the work is performed in a manner that meets the standards of the Heritage Conservation Act.		- Continued to progress the archaeological field program in collaboration with Indigenous groups.
	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.		- The Project Team continues to closely monitor final design progress. - Continued work in-river on the Pier S1 tower and the Pier N1 foundation; monitoring tower progress closely. - Continued work on-land at Piers S2, S3, S4, S5, S6, S7, S8, N2, and N3. - Continued daily site monitoring and reporting. - Old Yale Road Overpass foundation piling commenced.

		Objectives	Project Status	Comments
	Community Benefits	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	●	<ul style="list-style-type: none"> - Ongoing coordination and collaboration with BCIB to implement the CBA. - Discussions regarding current and future Project workforce requirements continue to progress.
Partners/Stakeholders	Indigenous Groups	Continue to build and maintain a positive collaborative working relationship.	●	<ul style="list-style-type: none"> - Continued to engage with the Identified Indigenous Groups (IIGs) in relation to Project permitting and opportunities. - Working with IIGs to achieve targets for Indigenous contracting opportunities. - Art and artist selection in relation to the Indigenous Art and Cultural Recognition Program continue to progress.
	Third Parties	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	<ul style="list-style-type: none"> - Working closely with municipalities on traffic management. - Continued handover/transfer agreement discussions regarding the existing bridge with TransLink. - Working closely with utilities and railway companies on design and construction activities.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> - Ongoing engagement with local businesses, stakeholders, residents, and the public continued.

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Stay the Course – no action required

3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> - Completion of three phases of public consultation (2013-2016) - Executed Design-Build-Finance Agreement (February 2020) - Project Overview Report (May 2020) - Project Report (July 2020)
	Environmental	<ul style="list-style-type: none"> - EAO Environmental Assessment Certificate (EAC) (April 2019) - Port and Environmental Review (PER) Permit (May 2019) - Canadian Navigable Waters Act Approval (November 2020) - Water Sustainability Act (WSA) Change Approval (November 2020) - Water Sustainability Act Short Term Use Approval (December 2020) - Fisheries Act Authorization (February 2021)
	Community Benefits	<ul style="list-style-type: none"> - Community Benefits Agreement (July 2018) - BCIB Health and Safety Program (May 2019) - BCIB-AIRCC Enabling Agreement Executed (July 2019) - Project Definition: Pattullo Bridge Replacement Project (July 2019) BCIB-Contractor Agreement Executed (February 2020) - BCIB-Subcontractor Agreement Executed (February 2020)
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> - CN Master Agreement (May 2019) - City of Surrey Municipal Agreement (September 2019) - City of New Westminster Municipal Agreement (September 2019) - Metro Vancouver Accommodation Agreement (December 2019) - Construction and land licenses acquired from Vancouver Fraser Port Authority (VFPA); VFPA demolition license finalized (December 2019) - CP Grade Separation Construction Agreement (January 2020) - Shaw Telecommunications Facilities Relocation Agreement (March 2020) - Zayo Telecommunications Facilities Relocation Agreement (March 2020) - CP Overpass Crossing and Maintenance Agreement (December 2020) - TransLink Consent Agreement for in-river works (December 2020) - Pattullo Bridge Replacement- FortisBC Energy Inc. Pipeline Removal (February 2023) - MOTI-TransLink Pattullo Bridge Decommissioning Agreement (May 2023)

4. Monthly Highlights and Three Month Lookahead

4.1 Safety

Scope:	<ul style="list-style-type: none">- Establish Occupational Health and Safety (OH&S) Project delivery objectives and performance measures.- Manage Project OH&S activities.- Monitor relevant OH&S performance metrics.- Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.
Monthly Highlights:	<ul style="list-style-type: none">- Continued to receive health and safety updates and incident reports from BCIB and the Contractor.- 21 incidents were documented in the health and safety log for the month. None of the incidents resulted in a Lost Time Injury.- Lost Time Injury Frequency Rate for the Project is 0.61 which is below the 2021 WorkSafeBC average of 1.2 for <u>Bridge, Overpass, or Viaduct Construction or Repair</u>.
Three Month Lookahead:	<ul style="list-style-type: none">- Update Safe Work Plans and Safe Job Procedures as required.- Continue to deliver training on the Job Hazard Assessment and Risk Mitigation Plan.- Conduct OH&S audits as and when required.

4.2 Quality

Scope:	<ul style="list-style-type: none">- Establish quality management Project objectives and performance measures.- Manage Project quality management activities.- Monitor relevant quality management performance metrics.
Monthly Highlights:	<ul style="list-style-type: none">- Continued structural steel fabrication activities, including auditing and steel testing.- 21 Non-conformity Reports (NCR) were initiated in the month related to concrete and material fabrication. To date there have been a total of 322 NCRs (28 open and pending, and 294 closed).- The established Project quality control programs continue to review testing results and identify any steel and structural component fabrication contractual non-compliances for remediation/resolution.
Three Month Lookahead:	<ul style="list-style-type: none">- Continue steel fabrication quality monitoring, surveillance auditing and initiate inspections as required.- Ongoing review of the contractor's Inspection and Test Plans.- Ongoing review of quality-related submittals.

4.3 Environmental

Scope:	<ul style="list-style-type: none">- Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port and Environmental Review (PER) permit.
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	<ul style="list-style-type: none"> - Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process. - Oversee outstanding environmental permits and associated environmental studies, monitoring, and compliance processes. - Support the Technical Heritage Committee and archaeology investigation program.
Monthly Highlights:	<ul style="list-style-type: none"> - Ongoing conversations between the Contractor, Province, and environmental regulators on the Project’s environmental requirements. - Continued discussions with the Contractor on environmental offsetting requirements for the existing bridge demolition FAA. - There were 57 environmental non-compliances reported for the month of May, 55 of which were in relation to non-reportable spills to land. One was related to a reportable spill to a storm drain, and one was related to a domestic cat entrapment and rescue. All spills were cleaned up appropriately and no lasting environmental impacts occurred.
Three Month Lookahead:	<ul style="list-style-type: none"> - Continue to liaise with regulators on follow-up actions and commitments arising from the required Project permits and approvals. - Continue working with the Contractor and environmental regulators to ensure the Project’s permitting requirements are met.

4.4 Archaeology

Scope:	<ul style="list-style-type: none"> - Managing, directing, and undertaking all archaeological work, including Archaeology Impact Assessment (AIA), Systematic Data Recovery (SDR), and archaeological monitoring. - Support the Technical Heritage Committee (THC) and archaeology investigation program. Responding to chance archaeological or heritage finds.
Monthly Highlights:	<ul style="list-style-type: none"> - Ongoing archeological monitoring continued across Project sites in both New Westminister and Surrey. - Monitoring took place at Agnes Street and Dufferin Street for Multi-Use Pathway pile works at the heritage wall along Columbia, and for the Royal Ave overpass demolition works. - Ongoing archeological monitoring continued across Project sites in both New Westminister and Surrey.
Three Month Lookahead:	<ul style="list-style-type: none"> - Continue archaeological monitoring and archaeological investigations as required. - Continue to liaise with regulators on follow-up actions and commitments from required Project permits and approvals. - Finalize preparations for the existing bridge demolition AIA.

4.5 Design and Construction

Scope:	<ul style="list-style-type: none"> - Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project. - Review the final bridge design including roadways, associated structures, drainage, and utilities. - Compliance reviews during construction. - Provide oversight of Contractor on-site activities throughout the Project's lifecycle. - Management of the Project's schedule, scope, and progress.
Monthly Highlights:	<ul style="list-style-type: none"> - As of the end of May, approximately 87% of the final design drawing packages have been received. The Project Team continues to closely monitor design progress. - In-river Pier S1 East and West tower construction continues to progress. - In-river Pier N1 pile cap first of two concrete pours completed. - On-land Piers S2, S3, S4, S5, S6, SA, N2, and N3 pier column and pier cap work advanced. - Old Yale Road Overpass foundation and piling commenced. - Precast facility set-up advanced. - Royal Avenue Overpass deck replacement successfully completed.
Three Month Lookahead:	<ul style="list-style-type: none"> - Complete monthly riverbed monitoring surveys. - Continue reviewing final Design packages. - Continue work at Pier locations in both Surrey and New Westminster, B.C. - Continue reviewing plans for upcoming structural steel girder erections. - Monitor and review off-site precast facility setup and precast panel fabrication activities.

4.6 Indigenous Groups

Scope:	<ul style="list-style-type: none"> - Consultation and engagement with the Identified Indigenous Groups (IIGs) as set out in the EAC. - Engagement with Indigenous groups on Project opportunities and benefits including Project agreements and contracting opportunities.
Monthly Highlights:	<ul style="list-style-type: none"> - 9 out of 10 Project Agreements have been signed with IIGs to date. - Facilitated one working group meeting with IIGs. - Continued to progress Indigenous Art and Cultural Recognition (IACR) opportunities including finalizing the art and artist selection.
Three Month Lookahead:	<ul style="list-style-type: none"> - Continue meetings with the Technical Heritage Committee (THC). - Continue meetings with the Indigenous Marine Users Group. - Continue to facilitate meetings between Indigenous groups and the Project.

4.7 Third Parties

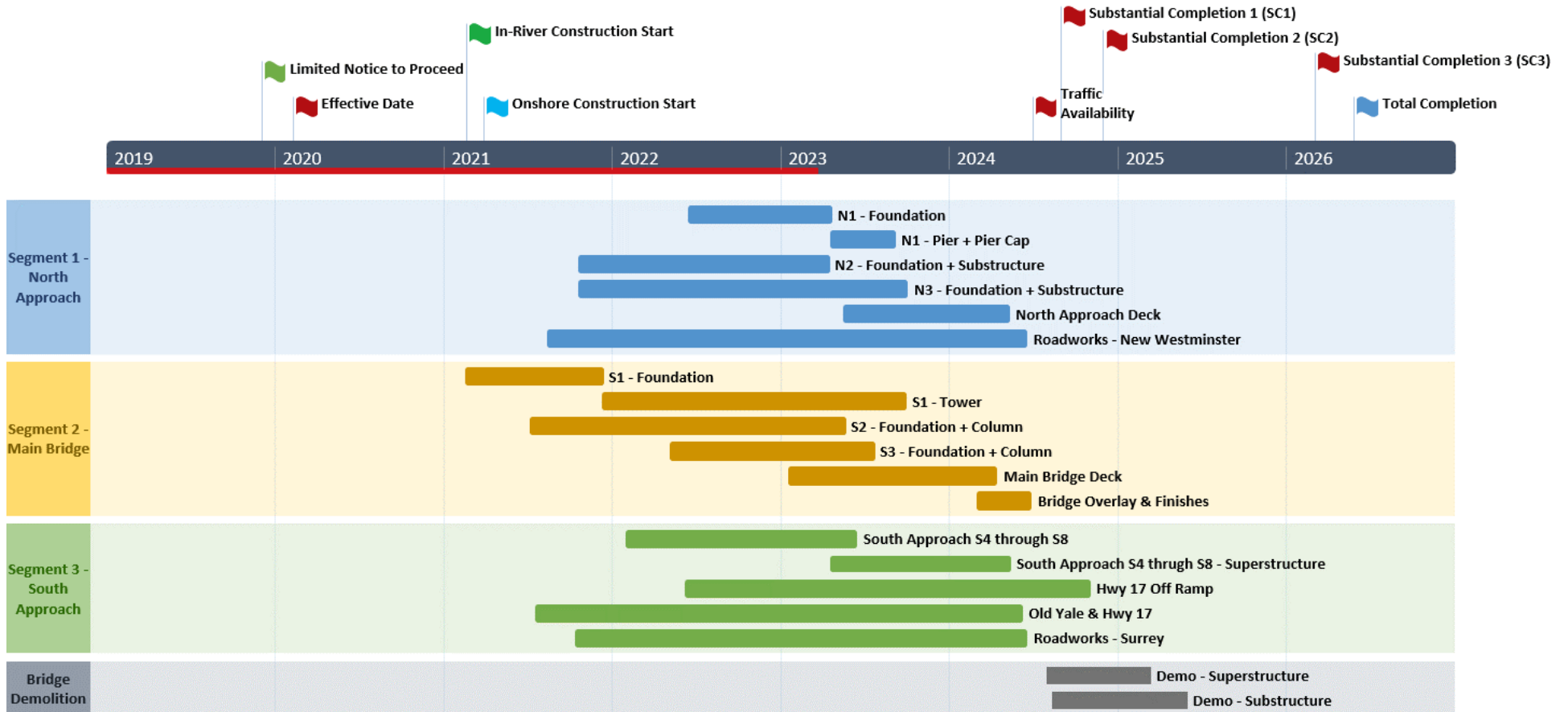
Scope:	<ul style="list-style-type: none"> - Engage with Municipalities (City of New Westminster and City of Surrey) for the Project implementation phase. - Municipal Agreements. - Railway Construction and Crossing Agreements. - Utility Agreements. - TransLink Agreement.
Monthly Highlights:	<ul style="list-style-type: none"> - Continued meeting weekly with both the City of Surrey and the City of New Westminster and continue to work closely with both cities on traffic management activities. - Canadian National Railway bridge seismic upgrade works completed in May. - Working closely with utilities and railway companies on design and construction activities. - Executed the MOTI-TransLink Pattullo Bridge Decommissioning Agreement.
Three Month Lookahead:	<ul style="list-style-type: none"> - Continue to engage with municipalities on the Project's design and construction plans. - Continue to work with railways to finalize agreements.

4.8 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> - Manage ongoing public and stakeholder communications and engagement.
Monthly Highlights:	<ul style="list-style-type: none"> - Continued to provide updates regarding Project work including notification distribution to residents, businesses, and stakeholders. Notifications are posted to the website, emailed to local resident associations, business associations, and sent to the email subscription list. - Oversaw development and distribution of various public and stakeholder notifications regarding construction activities communicating traffic pattern changes for the long weekend closure of Royal Avenue and the northbound lanes of the Pattullo Bridge. - Continued outreach to businesses in New Westminster and Surrey regarding upcoming construction activities and traffic pattern changes. - Responded to 33 public inquiries.
Three Month Lookahead:	<ul style="list-style-type: none"> - Ongoing engagement with the public, residents and key stakeholders in New Westminster and Surrey regarding upcoming construction activities and traffic pattern changes. - Continue regular meetings with resident and business associations and the Traffic Advisory Committee. - Continue to provide Project construction activity information via social media platforms. - Distribute construction notifications and respond to public inquiries.

5. Schedule

The following schedule depicts deliverables, milestones and associated dates and timelines for the implementation phase of the Project, as well as anticipated construction timelines.



6. Project Photos



FIGURE 1 – AERIAL OF THE ONGOING S1 TOWER CONSTRUCTION, LOOKING EAST



FIGURE 2 – AERIAL OF THE ONGOING S1 TOWER AND CROSSBEAM CONSTRUCTION, LOOKING NORTHEAST

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FIGURE 3 – AERIAL OF THE ONGOING FOUNDATION WORK AT S2, S3, S4 AND S5



FIGURE 4 – AERIAL OF THE COMPLETED ROYAL AVENUE OVERPASS DECK REPLACEMENT