

# Monthly Status Report

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Reporting Period: October 2024

# 1. Introduction

## 1.1. Project Overview

The Fraser River Tunnel Project is an eight-lane immersed tube tunnel that will replace the George Massey Tunnel on Highway 99. The new tunnel will include three general-purpose lanes and a dedicated transit lane in each direction. It will also provide a separated multi-use path to connect pedestrians and cyclists with active transportation routes on either side of the Fraser River. The Project includes a new eight-lane Deas Slough Bridge, related connections to the existing Highway 99 between Westminster Highway and Highway 17A, and decommissioning of the existing tunnel.

The Project will provide safe, reliable and accessible transportation options that meet the objectives for sustainable growth for the Metro Vancouver region. Key benefits of the Project include:

- Providing traffic congestion relief at the existing tunnel to the non-peak direction
- Addressing the long-term seismic safety performance of the existing tunnel
- Improving transit speed and reliability along the Highway 99 corridor
- Establishing a dedicated active transportation connection for pedestrians and cyclists across the Fraser River on Highway 99
- Maintaining the current clearances for the Fraser River navigational channel

The new tunnel is planned to be opened to traffic in 2030. Once the new tunnel is in operation, the existing George Massey Tunnel and ancillary infrastructure will be decommissioned by the end of 2032. Approval for the Project's Business Case was announced August 18, 2021.

Additional information and updates about the Fraser River Tunnel Project can be found on the Highway 99 Tunnel Program website: <https://www.highway99tunnel.ca/project-overview>

## 1.2. Project Delivery

Transportation Investment Corporation, a provincial Crown corporation, is delivering and overseeing the Project on behalf of the Ministry of Transportation and Transit and the BC Transportation Financing Authority. The estimated cost of the Project is \$4.15 billion.

The Project is being delivered through a Progressive Design-Build (PDB) with Target Price model. The procurement process for the Project includes a Request for Qualifications (RFQ), a competitive Design Early Works Agreement Request for Proposals (DEWA RFP) and a development phase, which includes design and development and a concurrent Design-Build Agreement Request for Proposals (DBA RFP). Upon the Province's acceptance of a DBA proposal, the DBA will be executed, and the DBA and the construction phase will begin.

The Project entered procurement with a RFQ issued on June 14, 2023. Following a competitive-selection process, the Province selected Cross Fraser Partnership to enter into the DEWA on September 13, 2024, which marks the start of the development phase. The Cross Fraser Partnership team selected for the

development phase includes Bouygues Construction Canada Inc., Fomento de Construcciones y Contratas Canada Ltd., Pomerleau BC Inc. and Arcadis Canada Inc. During the development phase, the provincial team and the design-build team (i.e., the Design-Builder) will advance design of the new tunnel, prepare for construction in 2026 and deliver the Project's early works, which include design, site investigations, construction planning and initial permitting. The opening of the new tunnel is anticipated for 2030 and Project completion (including decommissioning of the existing tunnel) by 2032.

In advance of tunnel construction, corridor work is also underway, which includes the preloading of soil along Highway 99 in Richmond. This work was awarded to Arsalan Construction Ltd. (Prime Contractor) on June 25, 2024 and is not undertaken by the Design-Builder.

Following the opening of the new eight-lane tunnel, the existing George Massey Tunnel and ancillary infrastructure will be decommissioned by the end of 2032.

### **1.3. Project Goals**

Based on the mandate and results of consultation, four primary goals were identified for the Project:

- Support sustainability of Fraser River Communities
- Facilitate increased share of sustainable modes of transport
- Enhance regional goods movement and commerce
- Support a healthy environment

## 2. Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within the approved scope.	●	<ul style="list-style-type: none"> <li>– The Project includes a new, eight-lane immersed tube tunnel that will replace the existing George Massey Tunnel on Highway 99. The new tunnel will have three vehicle lanes and a dedicated transit lane in each direction, with a separated active transportation corridor for cyclists and pedestrians. The Project includes a new Deas Slough Bridge, related connections to the existing Highway 99 and decommissioning of the existing tunnel.</li> <li>– The Project is within the approved scope.</li> </ul>
	Schedule	Project delivered within the approved schedule.	●	<ul style="list-style-type: none"> <li>– Anticipated opening date for the new tunnel is 2030.</li> <li>– The Design-Builder was onboarded in September 2024 with design and construction planning underway, which includes developing a schedule that considers timing for receipt of the Environmental Assessment Certificate and permitting requirements.</li> <li>– Schedule risks are being monitored.</li> </ul>
	Budget	Project delivered within the approved budget of \$4.15 billion.	●	<ul style="list-style-type: none"> <li>– Project spending for the month of October 2024 was \$8.5 million.</li> <li>– Total Project spending to date is \$116.4 million; the Project is forecast to be delivered within budget.</li> <li>– The budget was approved as part of the Business Case and will be reviewed during the development phase.</li> <li>– Budget related risks and issues are being monitored. The Project is currently within budget.</li> </ul>
	Safety	Ensure that Project work is performed safely, in compliance with all applicable safety regulations, and in accordance with government policy.	●	<ul style="list-style-type: none"> <li>– Activities during the development phase include corridor and investigative works.</li> <li>– Safety plans and submittals are underway; Safety audit and monitoring are underway.</li> <li>– No incidents have been reported on site.</li> </ul>
	Quality	Implement an effective Quality Management System.	●	<ul style="list-style-type: none"> <li>– Quality monitoring and auditing of select work activities and processes continue.</li> <li>– Review of quality documentation and submittals are ongoing.</li> </ul>

	<b>Environmental</b>	Obtain necessary environmental and regulatory approvals for the Project to proceed. Ensure work is performed in an environmentally responsible manner during construction phase.	●	<ul style="list-style-type: none"> <li>– The Project is currently in the Application Development and Review phase of the provincial Environmental Assessment.</li> <li>– TI Corp is engaging with stakeholders, First Nations and technical advisors to complete and submit an Application for an Environmental Assessment Certificate, which will be submitted to the Environmental Assessment Office.</li> </ul>
	<b>Design and Construction</b>	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.	●	<ul style="list-style-type: none"> <li>– Corridor work was initiated in September 2024 with the preloading of soil along Highway 99 in Richmond. Work is ongoing.</li> <li>– Geotechnical investigations ongoing.</li> </ul>
	<b>Community Benefits</b>	Implement the Project Labour Agreement (PLA) labour approach.	●	<ul style="list-style-type: none"> <li>– The Fraser River Tunnel Project (FRTTP) will be constructed under a Project Labour Agreement.</li> <li>– The Project is working with the Design-Builder to implement the labour approach for construction of the Project.</li> </ul>
<b>Partners/ Stakeholders</b>	<b>First Nations</b>	Continue to build and maintain positive and collaborative working relationships with First Nations.	●	<ul style="list-style-type: none"> <li>– The Project engages with 17 participating First Nations as part of the Environmental Assessment.</li> <li>– The Project engages with eight additional First Nations based on their engagement preferences.</li> </ul>
	<b>Third Parties</b>	Continue to build and maintain positive relationships with Project partners and other third parties.	●	<ul style="list-style-type: none"> <li>– Regular meetings with the City of Richmond, City of Delta and Metro Vancouver on Project activities are ongoing.</li> <li>– Discussions with City of Richmond, City of Delta and Metro Vancouver regarding development of municipal agreements are ongoing.</li> </ul>
	<b>Public and Stakeholder Engagement</b>	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> <li>– Prepared public communications to support the geotechnical investigations, including public notices, navigational notices and stakeholder updates.</li> <li>– Responded to public inquiries via email and at the community office continues.</li> </ul>

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Managing day to day operations

### 3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> <li>– <b>Independent Technical Review</b> (September 2018)</li> <li>– <b>Project Announcement</b> (August 2021)               <ul style="list-style-type: none"> <li>○ <b>Technical Briefing</b> (August 2021)</li> </ul> </li> <li>– <b>Business Case</b> (April 2021)</li> <li>– <b>Business Case Supplemental</b> (June 14, 2023)</li> </ul>
	Procurement	<ul style="list-style-type: none"> <li>– Request for qualifications <b>released</b> (June 14, 2023)</li> <li>– <b>Shortlist announced</b> (October 18, 2023)</li> <li>– Request for proposals for design early works agreement <b>released</b> (October 26, 2023)</li> <li>– Highway No. 99 Blundell Road to Steveston Interchange Surcharge Project agreement executed (June 25, 2024)</li> <li>– DEWA executed (September 13, 2024)</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>– <b>Initial Project Description</b> (April 6, 2022)</li> <li>– <b>Detailed Project Description</b> (May 10, 2023)</li> <li>– <b>Process Order</b> received (March 22, 2024)</li> <li>– <b>Environmental Assessment Office Readiness Decision</b> (September 14, 2023)</li> </ul>
	Design and Construction	<ul style="list-style-type: none"> <li>– Test dredge completed (2022)</li> <li>– Reference concept design complete (2023)</li> <li>– Geotechnical investigations (2022-2023)</li> <li>– Existing tunnel monitoring (2024)</li> </ul>
	Community Benefits	<ul style="list-style-type: none"> <li>– Fraser River Tunnel Project Advance Works Project Labour Agreement (April 12, 2024)</li> </ul>
Partners/ Stakeholders	First Nations	<ul style="list-style-type: none"> <li>– Ongoing meetings with First Nations.</li> </ul>
	Third Parties	<ul style="list-style-type: none"> <li>– Meetings with, and presentations to, City of Delta, City of Richmond and Metro Vancouver George Massey Crossing Task Force representatives began in September 2021 and continue regularly to ensure a collaborative approach.</li> </ul>
	Public and Stakeholder Engagement	<ul style="list-style-type: none"> <li>– Public open houses during Public Comment Periods for Environmental Assessment: May 10 and 11, 2022; Nov. 21 and 22, 2023.</li> <li>– Environmental Assessment Office’s <b>Summary of Engagement</b> from the Early Engagement phase (July 11, 2022).</li> <li>– Environmental Assessment Office’s <b>Summary of Engagement</b> from the Process Planning phase (March 22, 2024).</li> </ul>

## 4. Monthly Highlights and Three Month Lookahead

### 4.1. Safety

<b>Scope:</b>	<ul style="list-style-type: none"><li>– Confirm safety deliverables for preload activities and geotechnical investigations, and work with Prime Contractors and the Design-Builder to ensure safety requirements are met.</li></ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"><li>– Completed hazard identifications for in-river geotechnical investigations.</li><li>– Design-Builder completed site safety plans and orientations for in-river geotechnical investigations.</li></ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"><li>– Complete the Project safety plan and orientation for the geotechnical investigations.</li></ul>

### 4.2. Quality

<b>Scope:</b>	<ul style="list-style-type: none"><li>– Implement an effective Quality Management System for work currently being delivered in advance of tunnel construction and future works to be delivered as part of tunnel construction.</li></ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"><li>– Reviewed quality documentation, including inspection and test plans, methodology statements and correlated check sheets.</li><li>– For the preloading of soil along Highway 99 in Richmond, continued monitoring the Prime Contractor’s Quality Management System, including Quality Records, Nonconformity Reports/Log, and Opportunity for Improvement Log.</li><li>– Continued surveillance and quality audits of field construction.</li></ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"><li>– Continue to monitor the quality of preloading of soil along Highway 99 in Richmond.</li><li>– Develop Project Quality Management Plan for the upcoming geotechnical investigations.</li></ul>

### 4.3. Environmental

<b>Scope:</b>	<ul style="list-style-type: none"><li>– Complete environmental studies and investigations and obtain necessary regulatory approvals for the Project to proceed.</li></ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"><li>– The Project is in the Application Development and Review Phase of the provincial Environmental Assessment.</li><li>– Continued preparing the application for an Environmental Assessment Certificate to be submitted to the Environmental Assessment Office (EAO).</li><li>– Supported an EAO-led engagement with technical advisors and 17 participating Indigenous nations.</li><li>– Obtained permits in support of the upcoming geotechnical investigations.</li></ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"><li>– Continue to advance development of the application for the Environmental Assessment.</li></ul>

## 4.4. Design and Construction

<b>Scope:</b>	<ul style="list-style-type: none"> <li>– Develop a reference concept, technical requirements/specifications, and related technical studies for the Project and manage activities on-site.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>– Finalized the format for receiving reports related to the tunnel-monitoring equipment placed in the George Massey Tunnel.</li> <li>– Continued technical meetings and workshops with Design-Builder.</li> <li>– Worked collaboratively with Design-Builder to prepare for in-river geotechnical investigations in November.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>– Ongoing collaboration and coordination with BC Hydro.</li> <li>– In-river geotechnical investigations to start in November 2024 with on-shore geotechnical investigations to follow.</li> <li>– Validate the Reference Concept and develop alternates and optimizations.</li> </ul>

## 4.5. First Nations

<b>Scope:</b>	<ul style="list-style-type: none"> <li>– Engage with First Nations on Project matters of interest including economic opportunities and Project design, construction schedule and methodology.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>– Shared Environmental Assessment materials for review and comment.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>– Engage with First Nations on Environmental Assessment, including collaborating to incorporate Indigenous Knowledge, and discussing order of events to application submission.</li> <li>– Engage with First Nations during the developmental phase of the Project.</li> <li>– Continue discussions with First Nations to complete capacity funding agreements.</li> </ul>

## 4.6. Third Parties

<b>Scope:</b>	<ul style="list-style-type: none"> <li>– Provide updates to the City of Richmond, City of Delta and Metro Vancouver and deliver Project-specific Municipal Agreements (MAs).</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>– City of Richmond             <ul style="list-style-type: none"> <li>○ Held meetings with City of Richmond staff.</li> </ul> </li> <li>– City of Delta             <ul style="list-style-type: none"> <li>○ Held meetings with City of Delta staff.</li> </ul> </li> <li>– Metro Vancouver             <ul style="list-style-type: none"> <li>○ Held meetings with Metro Vancouver staff.</li> </ul> </li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>– Continue discussions with municipalities to advance MAs.</li> </ul>

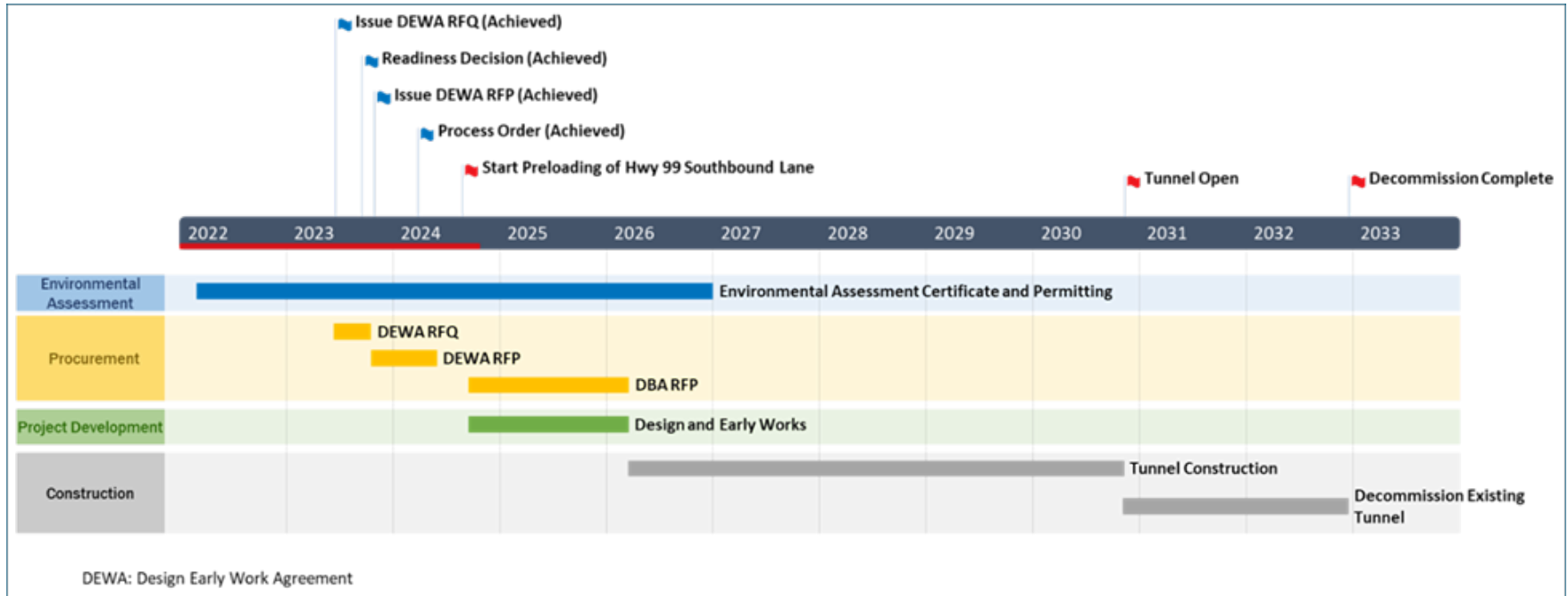


### 4.7. Public and Stakeholder Engagement

<b>Scope:</b>	<ul style="list-style-type: none"> <li>– Oversee and manage ongoing communication and engagement with the public and stakeholders.</li> <li>– Develop and implement engagement and communication strategies.</li> <li>– Cultivate relationships with stakeholders.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>– Produced and shared public notices about geotechnical investigation, including informational posters, navigational notices and stakeholder updates.</li> <li>– Responded to visitors to the community office and public inquiries as received.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>– Produce the Highway 99 Tunnel Program 2024 Spring/Summer Community Engagement Summary.</li> <li>– Develop communications and engagement activities to support the preloading of soil along Highway 99 in Richmond and the upcoming geotechnical investigations through 2024 and early 2025.</li> <li>– Conduct regular stakeholder meetings.</li> </ul>

## 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: A truck unloading soil overnight along Highway 99 in Richmond (October 2024).



Figure 2: Installing concrete barriers along Highway 99 in Richmond to contain the preload material (October 2024).