



**PATTULLO BRIDGE  
REPLACEMENT**



transportation  
investment  
corporation

# Monthly Status Report

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**Reporting Period**  
**February 2021**

# 1. Introduction

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## 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 cycling, walking or driving, 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 fall 2023. 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, a provincial Crown corporation, is delivering and overseeing this \$1.377 billion Project. The Project will be delivered under B.C.'s Community Benefits Agreement and the Project workforce will be provided by B.C. Infrastructure Benefits Inc.

The Fraser Crossing Project Corporation (Contractor) has been selected to design and build the new bridge and the Province will own and maintain the new bridge when 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.		<ul style="list-style-type: none"> <li>- Project scope includes a new four-lane bridge, improved connections to, from and near the bridge and dedicated walking and cycling lanes.</li> <li>- Project Team is actively managing scope.</li> </ul>
	Schedule	Project delivered within the approved schedule.		<ul style="list-style-type: none"> <li>- Schedule related risks are being monitored, particularly in relation to regulatory authorizations required for in-river works and on-site investigative work. <sup>1</sup></li> </ul>
	Budget	Project delivered within the approved budget of \$1.377 billion.		<ul style="list-style-type: none"> <li>- Project spending for the month of February 2021 was \$15.9 million.</li> <li>- Total Project spending to date is \$289.2 million; the Project is forecast to be delivered within budget.</li> </ul>
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.		<ul style="list-style-type: none"> <li>- The health and safety plan for the Project work is in place. The plan includes specific COVID-19 protocols.</li> <li>- Lost Time Incident Rate (LTIR) for the Project remains at 0.</li> </ul>
	Quality	Implement an effective Quality Management System.		<ul style="list-style-type: none"> <li>- Four shipments of steel pipe pile have been received to date and have passed on-site quality inspections.</li> <li>- Continued in-person quality monitoring of steel pipe pile fabrication, as well as steel quality testing. The overall product received to date has been acceptable.</li> </ul>
	Environmental	Ensure our work is performed in an environmentally responsible manner.		<ul style="list-style-type: none"> <li>- Fisheries and Oceans Canada (DFO) Fisheries Act Authorization was received on February 15<sup>th</sup>, 2021.</li> <li>- Environmental Assessment Certificate (EAC) conditions were conditionally met on February 17<sup>th</sup>, 2021. Additional information on underwater noise mitigation required to receive final approval.</li> </ul>
	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.		<ul style="list-style-type: none"> <li>- In-river work commenced towards the end of the fish window on February 19<sup>th</sup>, 2021 at Tower S1. Work includes rip rap placement and pile driving. Work stopped on February 28<sup>th</sup>, 2021 as the fish window closed.</li> <li>- Four houses were demolished in New Westminster.</li> <li>- Traffic Management Plan was accepted.</li> <li>- Preparing for additional physical hydraulic model test run.</li> <li>- Additional static pile load test completed.</li> </ul>

<sup>1</sup> Information Bulletin providing a Project schedule update was released on April 1, 2021 and is appended to the end of this report.

	<b>Community Benefits</b>	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	●	<ul style="list-style-type: none"> <li>- Ongoing coordination with BCIB to ensure the onboarding of employees addresses COVID-19 public health guidelines.</li> <li>- Continued discussions with BCIB on labour force requirements.</li> <li>- During the month of February, a range of 12 to 25 full time CBA hired employees actively worked on site.</li> </ul>
<b>Partners/Stakeholders</b>	<b>Indigenous Groups</b>	Continue to build and maintain a positive collaborative working relationship.	●	<ul style="list-style-type: none"> <li>- Project Team continues to engage with the Identified Indigenous Groups in relation to Project permitting and opportunities.</li> <li>- One outstanding project benefit agreement, negotiations ongoing.</li> </ul>
	<b>Third Parties</b>	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	<ul style="list-style-type: none"> <li>- Multi-use path (MUP) connections review ongoing in response to feedback received.</li> <li>- Continued agreement discussions with TELUS and railway companies.</li> <li>- TransLink existing bridge transfer agreement discussions 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>- Ongoing engagement with local residents and the public continued in the month. This included issuing construction notices for both on-land and in-river work.</li> </ul>

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"> <li>– Community Benefits Agreement (July 2018)</li> <li>– Executed Design-Build-Finance Agreement (February 2020)</li> <li>– Project Overview Report (May 2020)</li> <li>– Project Report (July 2020)</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>– EAO Environmental Assessment Certificate (EAC) (April 2019)</li> <li>– Port and Environmental Review (PER) Permit (May 2019)</li> <li>– Canadian Navigable Waters Act Approval (November 2020)</li> <li>– Water Sustainability Act Change Approval (November 2020)</li> <li>– Water Sustainability Act Short Term Use Approval (December 2020)</li> <li>– Fisheries Act Authorization (February 2021)</li> </ul>
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> <li>– CN Master Use Agreement (May 2019)</li> <li>– City of Surrey Municipal Agreement (September 2019)</li> <li>– City of New Westminster Municipal Agreement (September 2019)</li> <li>– Metro Vancouver Accommodation Agreement (December 2019)</li> <li>– Construction and land licenses acquired from Vancouver Fraser Port Authority (VFPA); VFPA demolition license finalized (December 2019)</li> <li>– CP Grade Separation Construction Agreement (January 2020)</li> <li>– Shaw Telecommunications Facilities Relocation Agreement (March 2020)</li> <li>– Zayo Telecommunications Facilities Relocation Agreement (March 2020)</li> <li>– CP Overpass Crossing and Maintenance Agreement (December 2020)</li> <li>– TransLink Consent Agreement for in-river works (December 2020)</li> </ul>

## 4. February Highlights and Three Month Lookahead

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### 4.1 Safety

<b>Scope:</b>	<ul style="list-style-type: none"><li>- Establish Occupational Health and Safety (OH&amp;S) Project delivery objectives and performance measures.</li><li>- Manage Project OH&amp;S activities.</li><li>- Monitor relevant OH&amp;S performance metrics.</li><li>- Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.</li></ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"><li>- Continued to receive health and safety updates and incident reports from BCIB and the Contractor.</li><li>- Site safety inspections and coordination between the Province, BCIB and the Contractor ongoing.</li><li>- Total number of incidents documented on the health and safety log for the month was 11. All were deemed minor and none of the incidents resulted in lost time due to injury. Lost Time Incident Rate (LTIR) for the Project remains at 0.</li></ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"><li>- Update Safe Work Plans and Safe Job Procedures as required.</li><li>- Deliver training on the Job Hazard Assessment and Risk Mitigation Plan for all Project Team members.</li><li>- Conduct OH&amp;S audits as and when required.</li></ul>

### 4.2 Quality

<b>Scope:</b>	<ul style="list-style-type: none"><li>- Establish quality management Project objectives and performance measures.</li><li>- Manage Project quality management activities.</li><li>- Monitor relevant quality management performance metrics.</li></ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"><li>- Continued in-person quality auditing of the Contractor's program for the off-shore steel pipe pile fabrication with additional audits being conducted in Canada upon arrival of the steel.</li><li>- Fourth steel pipe pile shipment was delivered to the Project site and passed on-site quality inspections. This is approximately 50% of the total required. Approximately 90% of the steel pipe pile sections are now fabricated. Loading of the next shipment has started.</li><li>- Four new Non-Compliance Reports (NCR) were issued in February. NCR tracking log shows seven open NCRs. NCRs to date have been deemed minor and relate to process and procedure. No material or major Quality issues have been identified and the product received to date has been acceptable.</li></ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"><li>- Continue steel fabrication quality monitoring, and surveillance auditing and initiate inspections as required.</li><li>- Ongoing planning for upcoming structural steel milling scheduled to begin in April 2021.</li></ul>

### 4.3 Environmental

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port and Environmental Review (PER) permit.</li> <li>- Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process.</li> <li>- Oversee outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.</li> <li>- Support the Technical Heritage Committee and archaeology investigation program.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Fisheries and Oceans Canada (DFO) Fisheries Act Authorization was received on February 15<sup>th</sup>, 2021.</li> <li>- On February 17<sup>th</sup>, 2021 the Environmental Assessment Office (EAO) informed the Project that the EAC conditions had been conditionally met. This conditional acceptance allowed for in-river work to commence between February 17<sup>th</sup> and 28<sup>th</sup>, 2021. Additional information on underwater noise mitigation is required to receive final acceptance.</li> <li>- Continued to advance the archaeological field program in collaboration with Indigenous groups.</li> <li>- Three Environmental Incident Reports in the month. There were no impacts to sensitive environmental receptors related to any of the incidents and all were deemed minor.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue archeological monitoring and archaeological investigations.</li> <li>- Continue to liaise with regulators on follow-up actions and commitments arising from the EAC and PER permit. Including working with the Contractor and third-party experts to review underwater noise data and determine appropriate mitigation and monitoring requirements for in-river works.</li> </ul>

### 4.4 Design and Construction

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project.</li> <li>- Review the final bridge design including roadways, associated structures, drainage, and utilities.</li> <li>- Compliance reviews during construction.</li> <li>- Provide oversight of contractor on-site activities throughout the Project's lifecycle.</li> <li>- Management of the Project's schedule, scope and progress.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- In-river work commenced towards the end of the fish window on February 19<sup>th</sup>, 2021 at Tower S1. Work includes rip rap placement and pile driving. Work stopped on February 28<sup>th</sup>, 2021 as the fish window closed.</li> <li>- Four houses were demolished in New Westminster and tree clearing is underway.</li> <li>- Progressed the preparations of the physical hydraulic model for additional test run.</li> <li>- Additional static pile load test completed to inform foundation refusal depth and hammer capacity.</li> <li>- Continued to progress the archaeological investigation at pier locations in Surrey.</li> </ul>

	<ul style="list-style-type: none"> <li>- Daily site monitoring and reporting ongoing.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Complete review of the static pile load test re-strike results.</li> <li>- Complete additional physical hydraulic model runs.</li> <li>- Complete monthly riverbed monitoring surveys.</li> <li>- Complete the demolition of homes and tree clearing in both New Westminster and Surrey in support of site preparation.</li> <li>- Progress archaeological investigations at pier locations in both Surrey and New Westminster.</li> </ul>

## 4.5 Indigenous Groups

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Consultation and engagement with the Identified Indigenous Groups (IIGs) as set out in the EAC.</li> <li>- Engagement with IIGs on Project opportunities and benefits including project benefit agreements and contracting opportunities.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Two Technical Heritage Committee (THC) meetings were held in February with Indigenous groups.</li> <li>- Eight out of nine project benefit agreements signed with IIGs.</li> <li>- Technical and feasibility review of proposed Indigenous Art and Cultural Recognition (IACR) options progressed.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue meetings with the THC.</li> <li>- Continue meetings with the Indigenous Marine Users Group.</li> <li>- Continue to facilitate meetings between Indigenous groups and the Project.</li> <li>- Continue discussions on Indigenous Art and Cultural Recognition opportunities including the process for art and artist selection.</li> </ul>

## 4.6 Third Parties

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Engage with Municipalities (City of New Westminster and City of Surrey) for the Project implementation phase.</li> <li>- Municipal Agreements.</li> <li>- Railway Construction and Crossing Agreements.</li> <li>- Utility Agreements.</li> <li>- TransLink Agreement.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Continued meeting weekly with the City of Surrey and City of New Westminster.</li> <li>- Coordinated comments from the municipalities on the Project's Design, including those on traffic management, utility design, drainage, roadway alignments and multi-use path connection.</li> <li>- Continued agreement discussions with TELUS and railway companies.</li> <li>- Progressed handover/transfer agreement regarding the existing bridge with TransLink.</li> </ul>

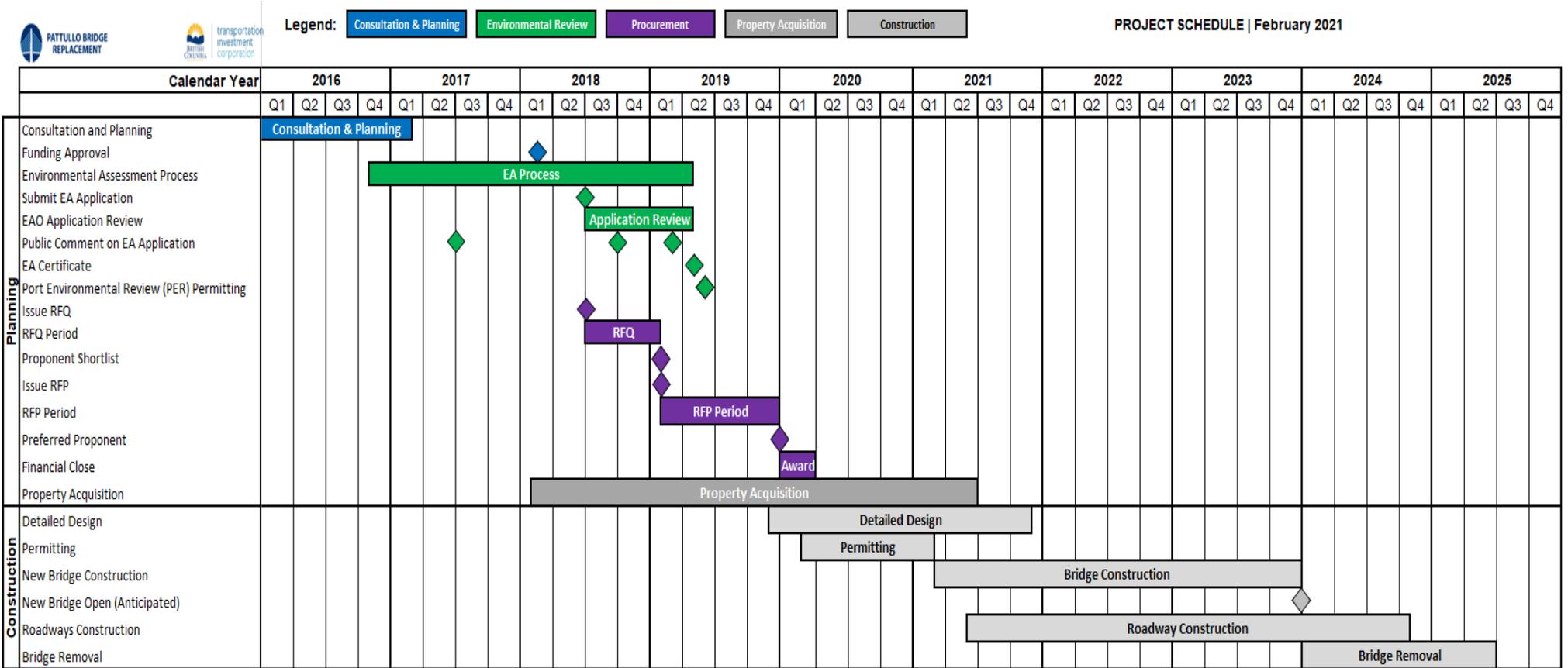
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue to receive and provide comments from the municipalities on the Projects design.</li> <li>- Continue to work with railways, TELUS and TransLink to finalize agreements.</li> <li>- Continue coordination with FortisBC regarding the Pattullo Gas Line Replacement.</li> </ul>
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## 4.7 Public and Stakeholder Engagement

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage ongoing public and stakeholder communications and engagement.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Continued to provide communication updates regarding site activity work including notification distribution to residents, business and stakeholders. Notifications are being posted to website, e-mailed to local resident and business associations, and sent to the e-mail subscription list.</li> <li>- Provide responses and updates regarding in-river construction and MUP connections to interested stakeholders.</li> <li>- Progressed the development of the social media strategy for the Project.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continued engagement with key stakeholders in New Westminster and Surrey regarding Project designs and construction plans, including with resident groups, HUB Cycling and the Walkers' Caucus.</li> <li>- Meet with key stakeholders to discuss multi-use path (MUP) design refinements.</li> <li>- Ongoing management of Project communications, including incident response, enquiry response, Project information sheets and construction notices.</li> <li>- Finalize the social media strategy for Project.</li> </ul>

## 5. Schedule

The following schedule depicts deliverables, milestones <sup>2</sup>and associated dates and timelines for the implementation phase of the Project, as well as anticipated construction timelines.



<sup>2</sup> Please see the April 1, 2021 Information Bulletin appended to the end of this report for an update on anticipated schedule milestone dates. An updated schedule, which reflects the schedule milestone changes outlined in the Information Bulletin, will be provided in future Monthly Status Reports.

## 6. Project Photos

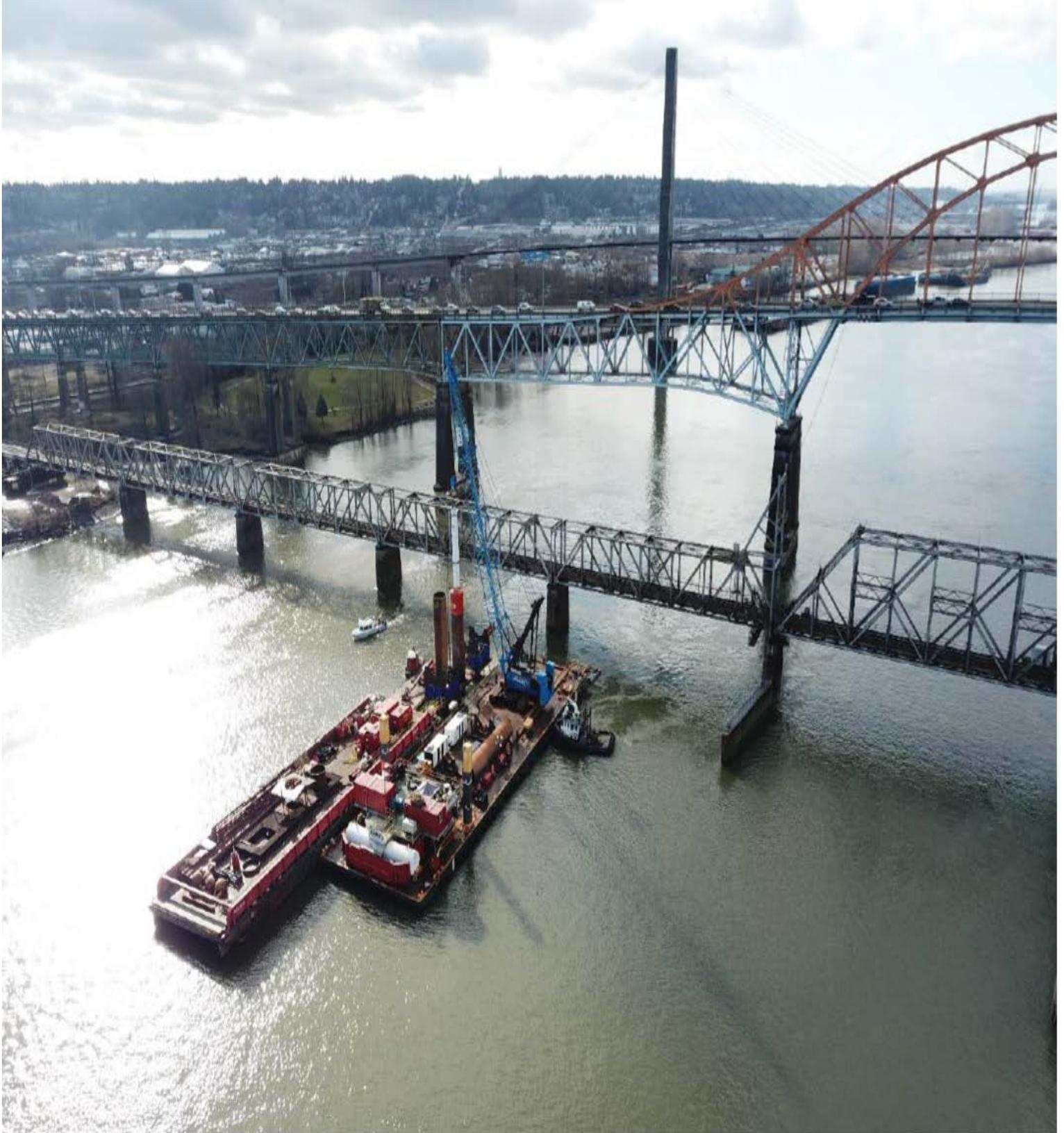
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**FIGURE 1 – PILE DRIVING AT S1**



**FIGURE 2 – PILE DRIVING AT S1**



**FIGURE 3 – AERIAL VIEW OF S1 PILING WORKS**



**FIGURE 4 – AERIAL VIEW OF SOUTH APPROACH AND IN-RIVER PILING WORKS (S1)**