

Highway 91/17 and Deltaport Way Upgrade Project

MONTHLY STATUS REPORT
September 2018

FOREWARD TO MONTHLY STATUS REPORT

Project Governance

The Province, in partnership with the Government of Canada, the Vancouver Fraser Port Authority, and Tsawwassen First Nation is investing \$245 million in Delta-area highway upgrades to improve safety and support growing economic and trade development south of the Fraser River.

The Highway 91/17 and Deltaport Way Upgrade Project (the Project) is a combination of upgrades to existing Highway 91, Highway 17, Highway 91 Connector, Deltaport Way and 27B Avenue to improve travel safety and efficiency.

The Ministry of Transportation and Infrastructure (the Ministry) is delivering the Project.

Leadership

The Ministry is committed to delivering the Project on time and budget. Project Team expertise includes senior advisors, senior project management, engineering professionals and subject matter experts across all disciplines.

Framework for Success


The Project is being delivered within a framework that ensures adequate planning, guidance, and controls are in place for all aspects of Project activity. Planning is based on industry best practices, accepted principles, standards, policies and risk-based thinking.


A Design-Build approach for the Highway 91, Highway 91 Connector, and Highway 17 segments best realizes the Project objectives. This approach allows for greater potential for integrated design and construction given the geographic constraints of the area, greater efficiency and economies of scale in construction and traffic management, and minimizes the risk of multiple contracts and contractors.


A Design-Bid-Build approach best suits the size and scope of the 27B Avenue and Deltaport Way segments and allows better coordination with funding partners and the Tsawwassen First Nation, who is the 27B Avenue road authority.

Stringent reviews during planning and development ensure a rigorous system is in place and all Project requirements are met, including internal reviews to confirm compliance, documentation, progress and performance throughout the lifecycle of the Project.

PROJECT STATUS DASHBOARD

Scope	Status*
<ul style="list-style-type: none"> • Hwy 91/17 Component Scope includes: <ul style="list-style-type: none"> ○ Removing two signalized intersections on the Highway 91 Connector ○ Constructing three new interchanges ○ New flyovers/grade-separation ○ 20 lane-kilometres of upgrades ○ 15 lane-kilometres of new roadway structures ○ Improved municipal connections • 27B Avenue Component scope includes: <ul style="list-style-type: none"> ○ Roadway widening and upgrading to support heavy truck volumes ○ Installation of a multi-use path between 41B Street and Deltaport Way ○ Upgrades to improve access to industrial lands from 27B Avenue between Deltaport Way and 41B Street • Deltaport Way Component scope includes: <ul style="list-style-type: none"> ○ Lengthened merge lane from 27B Avenue to Deltaport Way ○ New pavement and line markings 	

Schedule	Status*
<p>All key Project activities are proceeding on schedule.</p> <ul style="list-style-type: none"> • Consultation and Engagement <ul style="list-style-type: none"> ○ Project webpage launched in February 2018 ○ Project information email established in March 2018 ○ Project information phone line established in April 2018 ○ Public open house held on June 28, 2018 ○ Engagement summary report was released in September 2018 ○ Topic specific consultation with key stakeholder groups is ongoing • Project Development <ul style="list-style-type: none"> ○ Engineering, traffic, geotechnical and other studies continue to further inform the reference concept in support of the procurement process • Procurement <ul style="list-style-type: none"> ○ A business case and Request for Qualifications (RFQ) has been completed. The RFQ was released September 7, 2018. RFQ Response submissions are due November 1, 2018. • Environment <ul style="list-style-type: none"> ○ Overview Environmental Effects Assessment is underway ○ Application submitted to the Agricultural Land Commission (ALC) 	

Budget	Status*
<ul style="list-style-type: none"> • The Project has an approved capital budget of \$245 million and continues to track on budget with costs to date of \$19M. 	

**Status legend: Green: On track / Yellow: Manageable variance, mitigation underway / Red: Significant scope/schedule/budget variance*

Report Structure

The following table provides a brief description of the contents of this report.

1. Introduction	<ul style="list-style-type: none">• Project overview, goals, key milestones achieved and current month highlights
2. Schedule	<ul style="list-style-type: none">• High-level Project schedule including major milestones and deliverables
3. Project Management	<ul style="list-style-type: none">• Objectives, monthly accomplishments and upcoming activities related to Safety, Quality and Project Controls
4. Project Development	<ul style="list-style-type: none">• Scope, monthly accomplishments and upcoming activities for each of the major disciplines: Stakeholder Engagement, Environment, Agriculture, Indigenous Groups, Procurement, Engineering, Construction and Property
5. Cost Report	<ul style="list-style-type: none">• Fiscal year cost summary
6. Risk Management	<ul style="list-style-type: none">• Key risks and mitigation strategies

1. INTRODUCTION

Project Overview

The Highway 91/17 and Deltaport Way Upgrade Project is a combination of improvements to the existing Highway 91, Highway 17, Highway 91 Connector and Deltaport Way to improve travel safety, reliability and efficiency. These upgrades will improve local and commercial travel time and reliability in the area reduce conflicts between commercial vehicles and other traffic, and support community and economic development. The Highway 91/17 components also complement the recently completed 72nd Avenue Interchange Project and the Alex Fraser Bridge Project currently underway.

The Project is being funded by the Province of British Columbia, the National Infrastructure Component of the New Building Canada Fund, the Vancouver Fraser Port Authority and the Tsawwassen First Nation, and is being delivered by the Ministry.

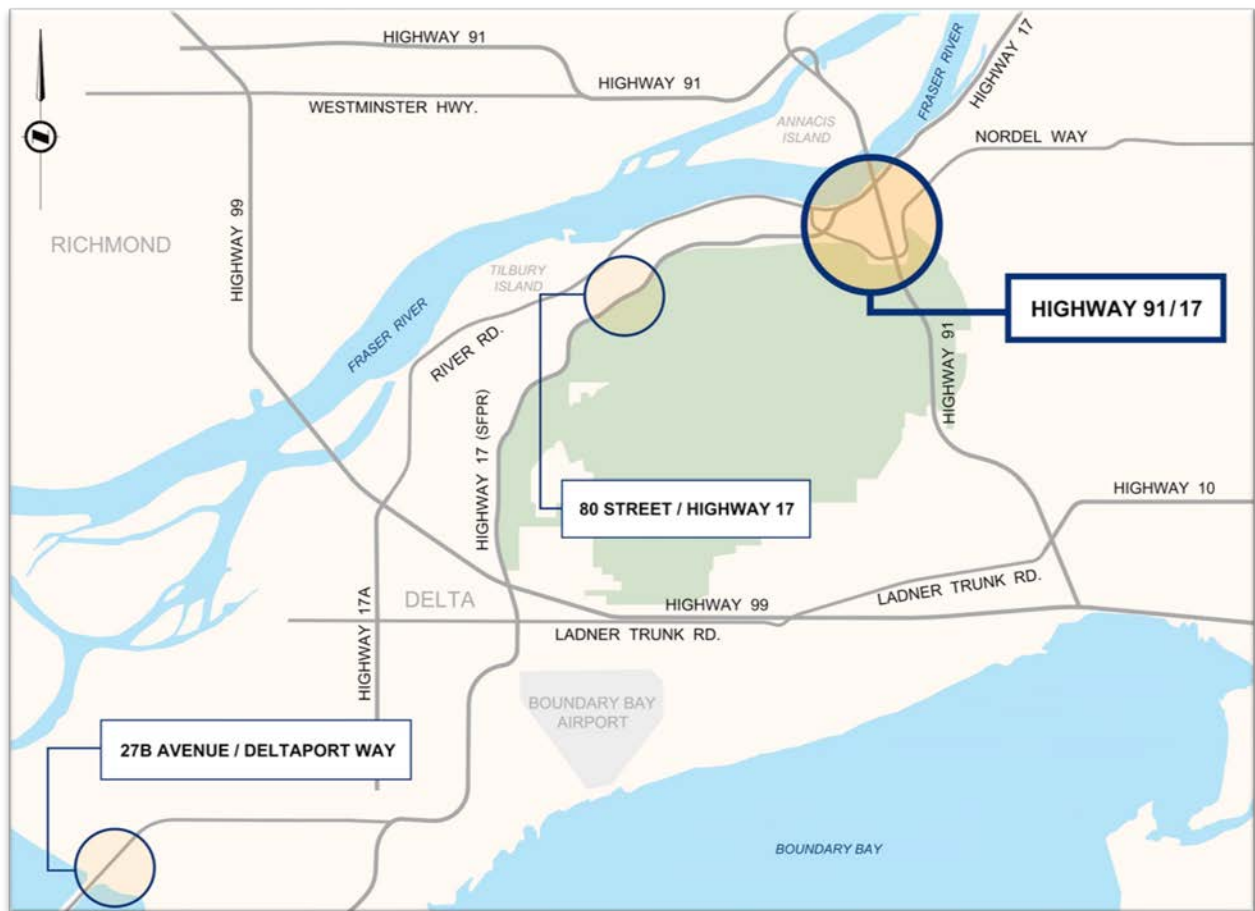


Figure 1 – Project Map

Project Goals

The Project will:

- Improve travel time and reliability through Delta, with congestion-reduction travel time savings.
- Improve traffic safety for goods movers and the travelling public, with lowered collision risk and better operating hours at the Nordel commercial vehicle inspection facility.
- Support community and economic development, with better access to employment areas, faster access between South Delta and North Delta/Surrey, improved access to cycling connections, and improved permitting and inspection service for commercial vehicle operators.

Key Milestones

Key milestones achieved to date are listed by category below. Project reports are included in the Project Documents section of the Highway 91/17 and Deltaport Way Upgrade Project website at www.gov.bc.ca/highway91-17-deltaport.

Engagement	<ul style="list-style-type: none"> • Public Open House • Released Engagement Summary Report
Environmental Review	<ul style="list-style-type: none"> • Conducted baseline studies • Developed Overview Environmental Effects Assessment Terms of Reference
Agriculture	<ul style="list-style-type: none"> • Submitted Agricultural Land Commission application
Design / Engineering	<ul style="list-style-type: none"> • Prepared design concept • Completed traffic data and analysis • Completed geotechnical investigations and reports
Procurement	<ul style="list-style-type: none"> • Awarded Deltaport Way Improvements contract • Awarded 27B Avenue Improvements contract • Issued RFQ for Highway 91/17 upgrades • Held Introductory Project Meeting for interested bidders

September 2018 Highlights

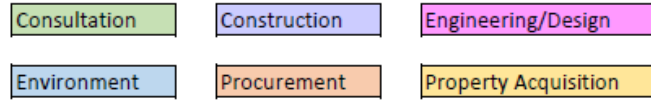
Project highlights this month include:

Engagement	<ul style="list-style-type: none"> • Released Engagement Summary Report
Procurement	<ul style="list-style-type: none"> • Issued RFQ • Held Introductory Project Meeting for interested bidders
Construction	<ul style="list-style-type: none"> • Started construction of Deltaport Way Improvements • Started construction of 27B Avenue Improvements

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2. SCHEDULE

Hwy 91/17 and Deltaport Way Upgrade Project Schedule
 September 2018



		2017				2018				2019				2020				2021				2022				2023			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Planning	Consultation and Planning																												
	Project Definition Report Complete	◆																											
	Stakeholder Engagement																												
	Public Open House						◆																						
	Environmental Review																												
	Overview Environmental Effects Assessment																												
	OEEA Report																												
	Permitting																												
	Engineering / Design																												
	Traffic Analysis																												
	Geotechnical Analysis																												
	Reference Concept																												
	Procurement																												
	Issue RFQ																												
	Introductory Project Meeting																												
	Issue RFP																												
	RFP Period																												
	Preferred Proponent																												
	Contract Award																												
	Property Acquisition																												
Advance Work																													
27B Avenue Improvements																													
Deltaport Way Improvements																													
Hwy 17 / 80th Street Improvements																													
Field Works																													
Hwy 91/17 Design Build Component																													
Design																													
Construction																													

3. PROJECT MANAGEMENT

Safety

Objectives	<ul style="list-style-type: none"> • Ensure a safe worksite at all times • Provide clear information on health and safety responsibilities • Ensure all required training is provided and evaluated • Ensure that Project activities are in accordance with the Workers Compensation Act and WorkSafeBC Health and Safety Regulations
Accomplished in September 2018	<ul style="list-style-type: none"> • Conducted safety orientations • Provided regular safety reminders for staff during field work
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Provide ongoing safety training as required • Provide Project safety orientation as required

Quality

Objectives	<ul style="list-style-type: none"> • Ensure design services and construction works delivered to the Province are implemented within a quality standard consistent with Ministry standards and ISO 9001 • Ensure internal processes are conducted per Project quality requirements, consistent with Ministry standards and ISO 9001
Accomplished in September 2018	<ul style="list-style-type: none"> • Ongoing review and revisions to Project Quality Management Plan • Ongoing review of internal processes • Conducted Internal Quality Management System Audit
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue quality management input and support to procurement activities

Project Controls

Objectives	<ul style="list-style-type: none"> • Effectively manage the Project's contracts, scope, schedule and cost • Implement an efficient document control and records management system • Ensure Project controls are governed by provincial policies such as the Ministry of Finance Capital Asset Management Framework and the Core Policy and Procedures Manual
Accomplished in September 2018	<ul style="list-style-type: none"> • Held regular project control meetings with discipline

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	leads
Key Activities for Next 3 Months	<ul style="list-style-type: none">• Continue regular project control meetings with discipline leads• Monitor Project schedule

4. PROJECT DEVELOPMENT

Stakeholder Engagement

Scope	<ul style="list-style-type: none"> • Management of ongoing public and stakeholder consultation, community relations and Project communications
Accomplished in September 2018	<ul style="list-style-type: none"> • Released Engagement Summary Report • Meetings were held with the City of Delta
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue community and stakeholder engagement • Business and community group presentations upon request

Environment

Scope	<ul style="list-style-type: none"> • Development of an Overview Environmental Effects Assessment (OEEA) • Management of Project monitoring and permitting process • Adherence to obligations defined within the South Fraser Perimeter Road (SFPR) Project Environmental Assessment Certificate (EAC) Table of Commitments and Assurances (TOCA)
Accomplished in September 2018	<ul style="list-style-type: none"> • Consulted with Indigenous Groups on the OEEA • Continued field work to complete the assessment of SFPR EAC obligations
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Engage contamination specialist to assist with existing SFPR sites • Complete OEEA Report • Continue water monitoring data collection for baseline

Agriculture

Scope	<ul style="list-style-type: none"> • Development and submission of application to the Agricultural Land Commission (ALC) • Development of appropriate plans to mitigate potential agricultural effects of the Project
Accomplished in September 2018	<ul style="list-style-type: none"> • Responded to ALC staff and other stakeholders regarding ALC application
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Obtain approval from the ALC • Engage certified registered professional to oversee agricultural monitoring and reporting for the Project • Prepare survey plans of ALR properties required for the Project

Indigenous Groups

Scope	<ul style="list-style-type: none"> • Consultation and engagement with Indigenous Groups
Accomplished in September 2018	<ul style="list-style-type: none"> • Conducted site visits and Project meetings with Indigenous Groups • Engaged and invited Indigenous Groups to participate in field work under Capacity Funding Agreements • Submitted Project documents to Indigenous Groups for review and comment • Responded to comments and questions on submitted Project documents
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue engagement with Indigenous Groups, including meetings and site visits as requested • Continue to obtain and include Indigenous Groups' input on key documents such as permit applications and draft OEEA Plans • Discussions with Indigenous Groups regarding Project-related opportunities and benefits

Procurement

Scope	<ul style="list-style-type: none"> • Development of business case, Request for Qualifications (RFQ), Request for Proposals (RFP) and subsequent evaluation of submissions
Accomplished in September 2018	<ul style="list-style-type: none"> • RFQ released to BC Bid on September 7, 2018 • Introductory Project Meeting for interested bidders held on September 20, 2018 • Responded to Requests for Information from registered Respondents
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue to respond to Requests for Information from registered Respondents • Prepare for and evaluate submitted responses to RFQ • Prepare shortlist of Proponents to receive the RFP • Release RFP to shortlisted Proponents

Engineering / Design

Scope	<ul style="list-style-type: none"> • Development of a reference concept, technical requirements/specifications and related technical studies for the Project • Traffic operations modelling, traffic data collection,
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	<p>and other related engineering services in support of the Project</p> <ul style="list-style-type: none"> • Technical input to the procurement and environmental processes • Compliance reviews of work by the Design-Build Contractor
Accomplished in September 2018	<ul style="list-style-type: none"> • Drafted technical specifications for the RFP • Finalized Reference Concept for RFP • Prepared various technical reports (e.g. Highways, Traffic, Structural, Drainage, etc.)
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Finalize technical specifications for RFP • Provide technical support for procurement

Construction

Scope	<ul style="list-style-type: none"> • Overall planning, coordination and implementation of construction activities
Accomplished in September 2018	<ul style="list-style-type: none"> • Commenced work on 27B Avenue improvements • Commenced work on Deltaport Way ramp improvements • Finalized plan for additional geotechnical investigations
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Complete Deltaport Way ramp improvements • Continue 27B Avenue improvements, including winter shutdown • Undertake additional geotechnical investigations

Property Acquisition

Scope	<ul style="list-style-type: none"> • Acquisition of land rights to deliver the Project • Review of properties along the Project alignment and development of a property acquisition strategy • Five properties identified for acquisition
Accomplished in September 2018	<ul style="list-style-type: none"> • Confirmed design and property impacts • Continued discussions with property owners • Achieved agreement in principle for one property
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue property discussions with owners to secure final agreements or agreements in principle • Conduct legal surveys on select properties

5. Cost Report

- To date, \$19M has been spent on the Project.
- The approved capital Project budget is \$245M

6. Risk Management

- The Project team has developed a risk register for the Project, including risk mitigation strategies
- The Risk Register is reviewed on a regular basis and will evolve as the project development progresses