

Highway 91/17 and Deltaport Way Upgrade Project

MONTHLY STATUS REPORT
April 2019

FOREWORD 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 and 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 will 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 components include: <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 components include: <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 components include: <ul style="list-style-type: none"> ○ Lengthen merge lane from 27B Avenue to Deltaport Way ○ New pavement and line markings ○ Repave 27B Avenue from Deltaport Way to the 27B Avenue component 	

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 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 ongoing to further inform the reference concept in support of the procurement process • Procurement <ul style="list-style-type: none"> ○ Request for Qualification (RFQ) Responses were submitted on November 1, 2018 ○ Request for Proposals (RFP) issued February 8, 2019 • Environment <ul style="list-style-type: none"> ○ Agricultural Land Commission (ALC) Application accepted with conditions October 2018 ○ Draft Overview Environmental Effects Assessment (OEEA) completed in March 2019 ○ 	

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 \$31 million 	

**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 Project 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 risk management 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.

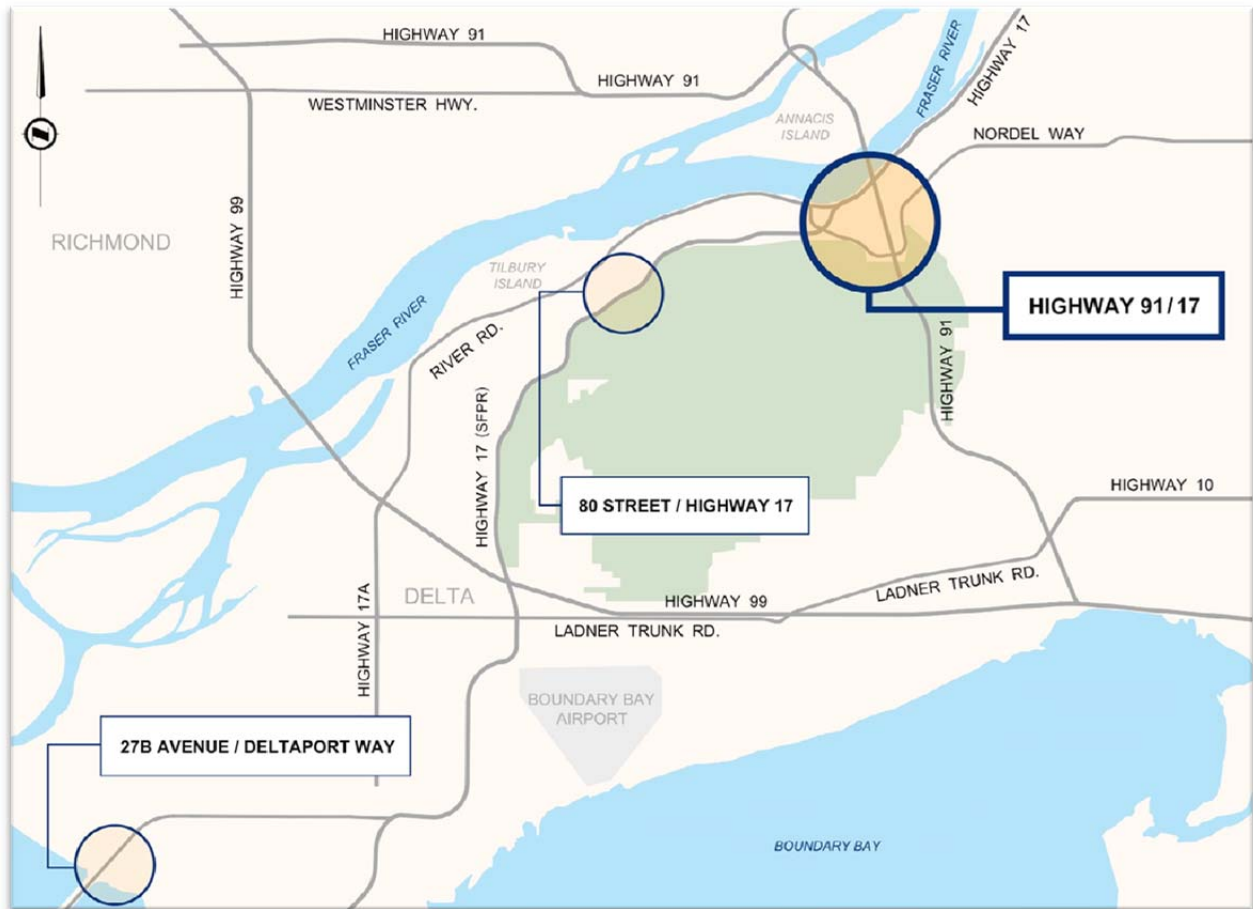


Figure 1 – Project Map

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 to Date

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"> • Conducted Public Information Open House • Released Engagement Summary Report
Environmental Review	<ul style="list-style-type: none"> • Reviewed relevant South Fraser Perimeter Road (SFPR) studies and conducted additional baseline studies • Developed OEEA Terms of Reference
Agriculture	<ul style="list-style-type: none"> • Submitted ALC application • Approval with conditions received from ALC
Design / Engineering	<ul style="list-style-type: none"> • Prepared reference design concept • Completed traffic data and analysis • Completed geotechnical investigations and reports
Procurement	<ul style="list-style-type: none"> • Awarded Deltaport Way Ramp Improvements construction contract • Awarded 27B Avenue Improvements construction contract • Issued RFQ for Highway 91/17 upgrades • Issued RFP for Highway 91/17 upgrades
Construction	<ul style="list-style-type: none"> • Commenced work on 27B Avenue Improvement Project • Completed work on Deltaport Way Ramp Improvement

April 2019 Highlights

Project highlights this month include:

Engagement	<ul style="list-style-type: none"> • Ongoing stakeholder engagement • Ongoing discussions with Delta regarding drainage infrastructure upgrades. • Project engaging with HUB regarding cycling accommodation • Stakeholder topic meetings for Delta Nature Reserve Boardwalk (DNR) relocation
Design/Engineering	<ul style="list-style-type: none"> • DNR boardwalk tender package complete • Additional paving between DPW and 27B 90% Detailed Design complete • VISSIM modelling to include potential adjacent developments complete

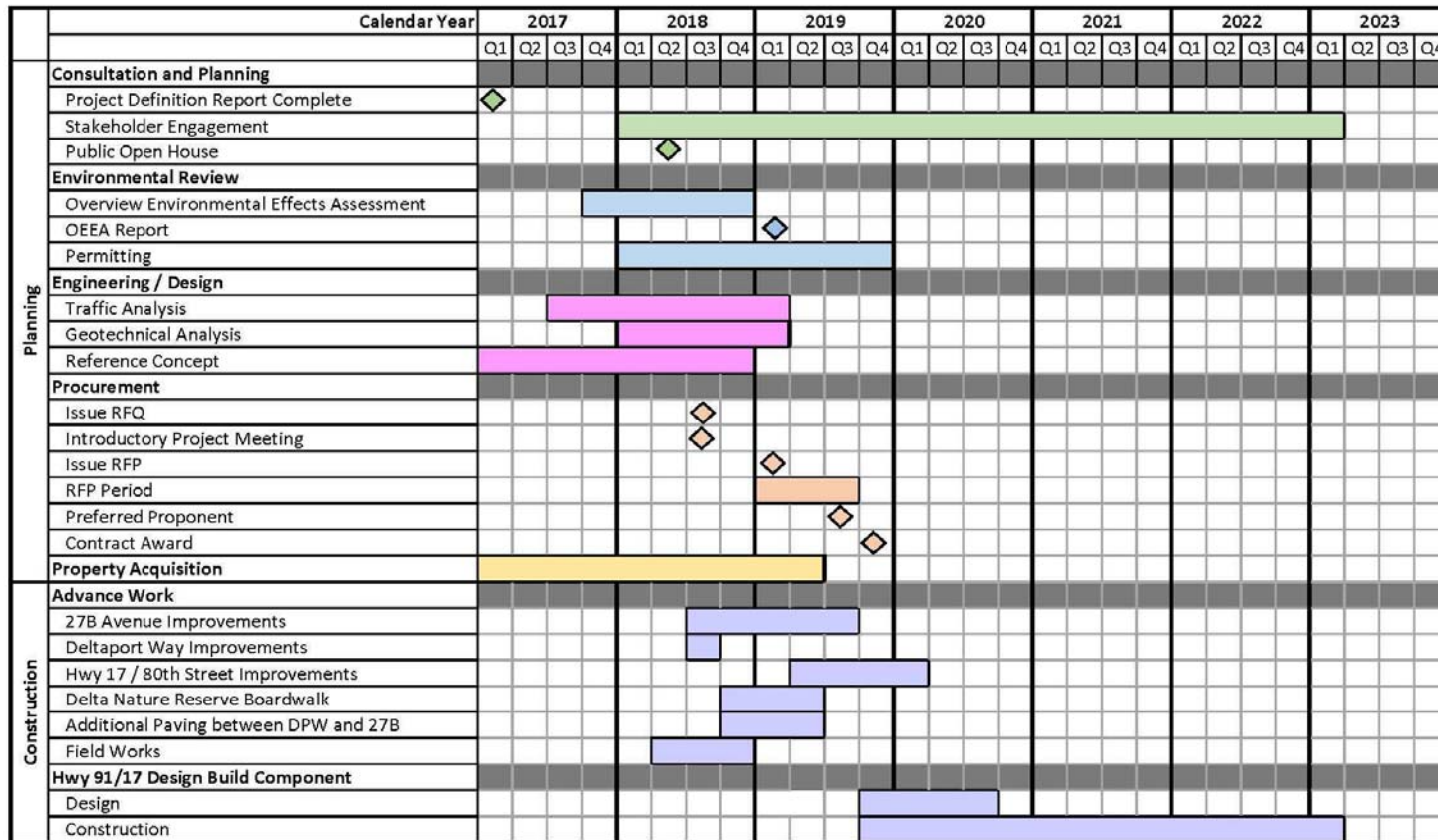
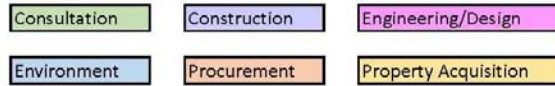
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Environmental Review	<ul style="list-style-type: none">• OEEA drafting ongoing• Draft Interim Archaeological Impact Assessment (AIA) Interim Report #1 and supplemental technical memo finalized and issued to Provincial Archaeology Branch• Site alteration permit submitted to Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNR)• Response to Burns Bog Scientific Advisory Panel (SAP questions prepared and ready to send.• Preliminary Waste Discharge Permit Application submitted to Ministry of Environment (MOE).• 96 Street ditch soil characterization finalized.
Procurement	<ul style="list-style-type: none">• Held workshops and topic meetings with Proponents• Ongoing response to Proponent Requests for Information• Ongoing updates to RFP Data Room materials
Construction	<ul style="list-style-type: none">• Ongoing discussions with 27B Avenue Improvements contractor regarding plan to remobilize to site in May.• Ongoing settlement monitoring of sand stockpile site south of River Road and monitoring of adjacent and nearby infrastructure.

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2. SCHEDULE

Hwy 91/17 and Deltaport Way Upgrade Project Schedule
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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 April 2019	<ul style="list-style-type: none"> • Conducted onsite safety orientations • Provided regular safety reminders for field staff
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 April 2019	<ul style="list-style-type: none"> • Ongoing review and revision of Project Quality Management Plan
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue quality management input and support to procurement activities • Ongoing review of internal processes

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 • Ongoing updates to Project Management Plan
Accomplished in April 2019	<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, scope and budget

4. PROJECT DEVELOPMENT

Stakeholder Engagement

Scope	<ul style="list-style-type: none"> • Manage ongoing public and stakeholder consultation, community relations and Project communications
Accomplished in April 2019	<ul style="list-style-type: none"> • Continued stakeholder engagement related to the DNR boardwalk realignment and cycling plans • Ongoing enquiry response
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue community and stakeholder engagement • Ongoing enquiry response • Communications to support procurement milestones • Business and community group presentations upon request

Environment

Scope	<ul style="list-style-type: none"> • Develop OEEA and supporting environmental reports • Manage Project monitoring and permitting process • Ensure the Project adheres to obligations defined within the SFPR Project Environmental Assessment Certificate (EAC) Table of Commitments and Assurances (TOCA)
Accomplished in April 2019	<ul style="list-style-type: none"> • OEEA drafting ongoing. • Submitted the Preliminary Waste Discharge Permit Application to MOE • AIA Interim report #1 and technical memo issued to Provincial Archaeology Branch • Site alteration permit submitted to FLNR. • 96 Street ditch soil characterization finalized. • Response to SAP questions prepared for release.
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Submit OEEA draft to Indigenous Groups, SAP, Environmental Assessment Office (EAO) for comment. • Complete final OEEA Report • Issue Project compliance documents on SFPR TOCA and meet with EAO for input/direction • Update Site Alteration Permit Application based on feedback received from FLNR. • Archeological sample analysis & Shelby tube sample compression testing ongoing in support of AIA interim report #2.

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[Redacted]	<ul style="list-style-type: none"> • Prepare and complete AIA Interim Report #2. • Section 14 Final Permit Report to be drafted. • Continue baseline water monitoring data collection • Meet with MOE regarding Waste Discharge Permit Application. Submit final Waste Discharge Application. • Soil Characterization work in support of 27B Paving Project. • Prepare WSA notification in support of DNR Boardwalk Construction. • Prepare wildlife salvage permit application in support of DNR Boardwalk Construction.
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Agriculture

Scope	<ul style="list-style-type: none"> • Develop appropriate plans to mitigate potential agricultural effects of the Project
Accomplished in April 2019	<ul style="list-style-type: none"> • Ongoing discussions with ALC to ensure compliance with conditions
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Prepare Reference Plans of properties required for the Project • Continue engagement with ALC on approval conditions

Indigenous Groups

Scope	<ul style="list-style-type: none"> • Consultation and engagement with Identified Indigenous Groups
Accomplished in April 2019	<ul style="list-style-type: none"> • Conducted site visits with Indigenous groups • Provided Project updates as required • Ongoing review of DNR Boardwalk information. • Engaged Indigenous groups with archaeology field work
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 • Discuss Project-related opportunities and benefits with Indigenous Groups

Procurement

Scope	<ul style="list-style-type: none"> • Develop a business case, RFQ, RFP and subsequent evaluation of submissions
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	<ul style="list-style-type: none"> • Development and award of tender packages for Design-Bid-Build Contracts
Accomplished in April 2019	<ul style="list-style-type: none"> • Held workshops and topic meetings with Proponents • Responses to Proponent Requests for Information ongoing
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Continue the Competitive Selection Process with Proponents including workshops and topic meetings • Respond to Requests for Information • Ongoing updates to Data Room materials • Issue Definitive Design-Build Agreement • Prepare for and begin evaluation of technical submissions from Proponents

Engineering / Design

Scope	<ul style="list-style-type: none"> • Develop a design concept, technical requirements/specifications and related technical studies for the Project • Conduct Project related traffic operations modelling, data collection, and other related engineering services • Provide technical input to the procurement and environmental processes • Conduct compliance reviews of work by the Design-Build Contractor
Accomplished in April 2019	<ul style="list-style-type: none"> • Ongoing technical inputs to Requests for Information from Proponents • Undertook additional traffic modelling analysis of the Project area. • Prepared final design and tender documents for DNR boardwalk realignment • Prepared 90% design for paving of 27B Avenue at Deltaport Way
Key Activities for Next 3 Months	<ul style="list-style-type: none"> • Provide technical support for procurement • Prepare final Design for 27B Avenue at Deltaport Way paving and tender contract. • Complete design work in support of Tilbury project. • Review technical proposal submissions

Construction

Scope	<ul style="list-style-type: none"> • Overall planning, coordination and implementation of construction activities
Accomplished in April 2019	<ul style="list-style-type: none"> • Ongoing survey monitoring of preload sand

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	<ul style="list-style-type: none"> stockpile. Completed monitoring of preload at 27B Avenue Prepare contract for building demolition at 9750 River Road Property.
Key Activities for Next 3 Months	<ul style="list-style-type: none"> Ongoing survey monitoring of preload sand stockpile. 27B Avenue contractor remobilize to site and begin civil construction works Tender and commence construction of DNR boardwalk realignment Tender contract and complete demolition of 9750 River Road Property.

Property Acquisition

Scope	<ul style="list-style-type: none"> Acquire land rights to deliver the Project (majority of the Project falls within existing highway boundaries)
Accomplished in April 2019	<ul style="list-style-type: none"> Completion of Hazmat Assessment/Removal for building demolition Continued discussions with one remaining property owners
Key Activities for Next 3 Months	<ul style="list-style-type: none"> Continue property discussions with one outstanding private owner to secure final agreement Conduct legal surveys on all required properties to perfect tenure as road or highway

5. Cost Report

- To date, \$31 million has been spent on the Project
- The approved capital Project budget is \$245 million

6. Risk Management

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