

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending June 30, 2020

1. PROJECT DASHBOARD

Project Delivery Objectives		Overall Project	DB Contractor	Owners/Other Works	Comments
Safety	Take every reasonable step to ensure that the work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	●	●	●	Safety meetings and orientations ongoing.
Budget	Delivered within the approved budget.	●	●	●	The Project has an approved capital budget of \$260 million and continues to track on budget.
Schedule	Delivered within the approved schedule.	●	●	●	Construction schedule in some segments contingent on permit issuance
Scope	Deliver the approved scope.	●	●	●	Delivery of the specified components is on track.
Indigenous Groups	Continue to build and maintain a positive collaborative working relationship	●	●	●	Discussions and consultation with Indigenous groups ongoing.
Environmental	Ensure the work is performed in an environmentally responsible manner.	●	●	●	Environmental permit applications under review and ongoing
Community Benefits	Incorporate the Community Benefits Objectives into the Project.	●	●	●	Community Benefits Objectives outlined in the Design-Build Agreement for implementation by the Design-Builder.
Third Parties	Continue to build and maintain positive relationships with Project Partners and other third parties.	●	●	●	Early and frequent engagement and advancing agreements with Project partners and other third parties.
Stakeholder Engagement	Continue to build and maintain positive relationships with the community, and other stakeholders.	●	●	●	Engagement with key Project partners is ongoing. Community and stakeholder engagement will continue.
Quality	Implement an effective Quality Management System.	●	●	●	Quality audits and reviews performed as required per the Quality Management Plan.

Status	Description
●	Not currently applicable, as the Project is in Procurement Phase
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

2. Introduction

Project Overview

The Highway 91/17 & Deltaport Way Upgrade Project (the Program) is comprised of the Highway 91/17 Upgrade Project, as well as the 27B Avenue and Deltaport Way Improvements Project. The 27B Avenue and Deltaport Way improvements have been completed and will no longer be reported out on in subsequent monthly reports.

The Highway 91/17 Upgrade Project (the Project) is a subcomponent project of the broader Program and includes a combination of improvements to the existing Highway 91, Highway 17, and Highway 91 Connector corridors to improve travel safety 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.

A Design-Build Agreement between the BC Ministry of Transportation and Infrastructure (the Ministry), the BC Transportation Financing Authority (BCTFA), and Pacific Gateway Constructors General Partnership (the Design-Builder) was signed on December 13, 2019. As such, the Project has entered the implementation phase and a comprehensive Monthly Status Report will be prepared to report on progress, budget status, and risk.

June 2020 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none">• Met with the BC Trucking Association (BCTA) to review the design concept and turning movements
Environment	<ul style="list-style-type: none">• Additional environmental protection measures installed in the River Road/Highway interchange• Section 12.4 Site Alteration Permit application was referred to Indigenous groups• Design-Builder restarted geotechnical drilling in the Delta Nature Reserve
Safety	<ul style="list-style-type: none">• Social distancing being followed for the staff required to work in the field as inspectors
Design	<ul style="list-style-type: none">• Ongoing development and review of Design-Builder detailed design

Construction	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Clearing and grubbing work in work areas outside Water Sustainability Act (WSA) permit review areas completed • River Road West – Existing sand preload has been moved to new roundabout alignments • River Road West – temporary drainage of River Road south ditch installed • River Road East – River sand preload hauled during nighttime lane closures on Hwy 17 EB lanes <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Wildlife salvage and bird nest surveys ongoing. <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Geotechnical investigation complete <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> • E01 detour construction begins for new Nordel Way signalized intersection.
Traffic Management	<ul style="list-style-type: none"> • Hwy 17 EB nighttime slow lane closure paused 3rd week of June. • Hwy 91 NB construction shoulder closures.
Quality	<ul style="list-style-type: none"> • Ongoing development of quality documents (QMPs, QSPs, ITPs).

3. PROJECT DELIVERY

Project Controls

Completed this Month	<ul style="list-style-type: none"> • Ongoing project control meetings • Ongoing review of Risk Register • Ongoing review of project schedule, scope and budget • Updates to Project Management Plan
Key activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing project control meetings • Ongoing review of Risk Register • Ongoing review of project schedule, scope and budget

4. PROJECT DEVELOPMENT

Communications and Stakeholder Engagement

Completed this Month	<ul style="list-style-type: none"> • Provided updates to interested stakeholder groups as requested • Initiated Project Traffic Advisory Committee (meets quarterly) • Launched new webpage structure • Reviewed contractor communications submittals • Ongoing enquiry response • Supported the Design-Builder with traffic and construction notifications to the public, community and stakeholders
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Key Activities for Next 3 months	<ul style="list-style-type: none"> • Continue to meet with interested stakeholder groups • Continue to support the Design-Builder regarding upcoming traffic and construction notifications to the public, community and stakeholders • Continue to update Project webpage • Ongoing enquiry response
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Environment

Completed this Month	<ul style="list-style-type: none"> • Ongoing application and securing of permits for archaeological sites, Indigenous groups (IGs), WSA permits, and Department of Fisheries and Oceans (DFO) permits • Design Builder's geotechnical program restarted in the Delta Nature Reserve • Regular weekly meetings established with the Design-Builder regarding environmental components of the Project • Design-Builder preparing and submitting work/monitoring plans for contaminated materials on the Project
Key Activities for Next 3 months	<ul style="list-style-type: none"> • The Project and Design-Builder to secure remaining permits • Engage Environmental Management Services consultant • Review submissions in accordance with the DBA requirements

Agriculture

Completed this Month	<ul style="list-style-type: none"> • No actions this month
Key activities for Next 3 months	<ul style="list-style-type: none"> • Monitor design status and determine any requirements to meet ALR conditions

Indigenous Groups

Completed this Month	<ul style="list-style-type: none"> • Ongoing review and sharing of key project documents with Indigenous groups • Meetings ongoing with DB contractor and Project team
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Responses to IG comments on key project documents • On-going consultation and engagement relating to geotechnical, environmental and archaeological works

5. DESIGN BUILD PROGRESS

Safety

Completed this Month	<ul style="list-style-type: none"> • Pacific Gateway Constructors is the Prime Contractor on the Project Site • Onsite safety training sessions held for all Project staff
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Heavy construction activities to commence • Ongoing site safety training sessions as required • Daily & weekly safety briefings for active site crews

	<ul style="list-style-type: none"> • Monthly mass safety meetings
Safety Incidents	<ul style="list-style-type: none"> • No safety incidents in this period

Design

Completed this Month	<ul style="list-style-type: none"> • Ongoing meetings with various regulatory agencies/stakeholders • Continued development and review of design including guide signing strategy, and detour design
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing review of design submissions • Complete design of access to MK Development

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Bird Nest survey complete outside WSA permit areas. • Invasive Species investigation complete outside WSA permit areas. • Clearing and grubbing activities completed outside WSA permit areas. • Embankment placement of new River Road West roundabout ongoing. • Embankment placement of Detour W01 ongoing. • Temporary drainage culvert along River Road south side completed. <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Wildlife salvage completed. <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Review lane shift proposals of Hwy 91C • Review intersection Hwy 91C and truck parking shift design <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Geotechnical investigation ongoing in the Delta Nature Reserve area. • Construction of the E01 Detour ongoing
Key Activities for Next 3 months	<p>General</p> <ul style="list-style-type: none"> • Design-Builder working on permits and approvals <p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Preload of Hwy 17 / River Road on-/off-ramp roundabout areas • River Road utility relocation preparation • Preload / embankment fills for Hwy 17 detour <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Hwy 91C alignment shift and lane width reduction • Hwy 91C cyclist detour review and implementation • Clearing and grubbing to begin • Preload of new alignments to begin on North Side of Hwy 91C <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p>

	<ul style="list-style-type: none"> • Preload north side of Hwy91C • Detour C01 – Hwy 91C lane reduction and shift to the south • Detour C02 – Intersection of Hwy 91C and truck parking shift east • Wildlife salvage south side of Hwy91C • Clearing and Grubbing south side Hwy91C <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Implementation of Detour E01 – Hwy 91 NB to Nordel EB at signalized intersection • Implementation of Detour E02 – Hwy 91 SB to Nordel EB loop ramp
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Traffic Management

Completed this Month	<ul style="list-style-type: none"> • Nighttime Lane closures Hwy 17 EB. • Shoulder daytime closures Hwy 91NB at Exit 8 for Detour E01 construction
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Nighttime lane closures Hwy 17 EB and Hwy 91C • Pending approvals of work plans, preload activities anticipated in all Segments

Quality

Completed this Month	<ul style="list-style-type: none"> • Construction activities have commenced • Ongoing development of quality documents (QMPs, QSPs, ITPs)
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing implementation of quality management system • Commencement of quality audits

6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the June 2020 Works Schedule submitted by the Design-Builder as follows:

Activity Name	Milestone Date (June 2020 Works Schedule):	Actual Start
Construction Start		
Highway 91 / Nordel Way Interchange	June 16, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	
Highway 91C / Weigh Scale Interchange	August 20, 2020	
Highway 91C/ Highway 17 Interchange	July 6, 2020	
Highway 17 / River Road Interchange	May 8, 2020	May 8, 2020
Construction Complete		
Highway 91 / Nordel Way Interchange	September 15, 2022	
Delta Nature Reserve Boardwalk	October 2, 2020	
Highway 91C / Weigh Scale Interchange	November 30, 2022	
Highway 91C/ Highway 17 Interchange	October 7, 2022	
Highway 17 / River Road Interchange	September 28, 2021	
Substantial Completion Date	<i>November 30, 2022</i>	
Total Completion Date	<i>May 30, 2023</i>	

7. Site Photographs



Segment 1. Taken June 3, 2020



Segment 1. Taken June 10, 2020



Segment 4 clearing work. Taken June 11, 2020



Segment 4. Taken June 16, 2020



Segment 4 detour. Taken June 24, 2020



Pole relocation. Taken June 29, 2020

8. Project Cost Report

- To date, \$69.9 million has been spent on the Project
- The approved capital Project budget is \$260 million