

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending September 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.	●	●	●	Permits issued for construction; some potential delays.
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.	●	●	●	The Project will be delivered in accordance with the obligations identified in the Overview Environmental Effects Assessment.
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
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

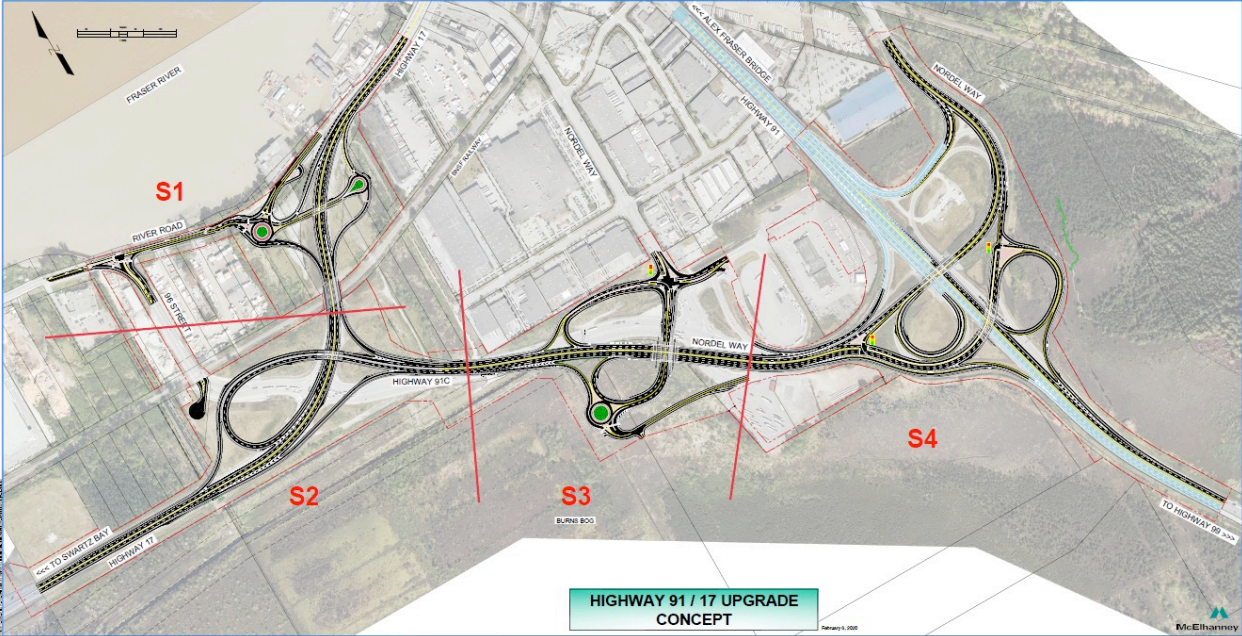
2. Introduction

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.



September 2020 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> Ongoing public and stakeholder engagement to advise of Project activities including upcoming traffic and construction activities Convened the second Traffic Advisory Committee meeting
Environment	<ul style="list-style-type: none"> Environmental protection measures continue to be implemented in active construction areas. Design-Builder providing environmental submissions Ongoing application and securing of permits Environmental Audit completed by the Design-Builder
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 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Hwy 17 – 96th Street ditch box culvert installed <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> Hwy 91C Detour C01 lane shift – EB lanes completed <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> Silt fencing facing the Delta Nature Reserve installed
Traffic Management	<ul style="list-style-type: none"> Hwy 17 Eastbound (EB) nighttime slow lane closure Hwy 17 Westbound (WB) nighttime slow lane closure Hwy 91C EB nighttime slow lane closures
Quality	Ongoing implementation and review of quality system

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
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 Updated the Project website
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	<ul style="list-style-type: none"> • Reviewed contractor communications submittals • Ongoing enquiry response • Convened the second Project Traffic Advisory Committee meeting • Supported the Design-Builder with stakeholder engagement and public communications, including the Delta Nature Reserve Boardwalk relocation work
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing support to the Design-Builder for stakeholder engagement and public communications including the Delta Nature Reserve Boardwalk relocation work and Highway 99 preload removal • Continue to update Project webpage • Ongoing enquiry response

Environment

Completed this Month	<ul style="list-style-type: none"> • Application for Water Sustainability Act (WSA) Permit amendment made • On-going regular weekly meetings with the Design-Builder regarding environmental components of the Project • Environmental Audits undertaken
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Responses to comments on WSA Permit amendment application • On-going environmental oversight of Design-Builder's environmental mitigation measures • On-going submission review in accordance with the DBA requirements

Agriculture

Completed this Month	<ul style="list-style-type: none"> • Discussions ongoing with the Design-Builder and Project Agrologist for potential peat excavation in the Nordel I/C on former DNR land
Key activities for Next 3 months	<ul style="list-style-type: none"> • Project Agrologist to visit site and assess samples to determine appropriate course of action • Monitor design and construction status and determine any requirements to meet Agricultural Land Commission conditions and proceed with action items

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 • Coordination of participation in plant survey / harvesting in Delta Nature Reserve • Continued communication with Indigenous groups regarding project construction activities
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Responses to Indigenous Group 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"> Construction activities and ongoing site safety training sessions as required Daily & weekly safety briefings for active site crews Monthly mass safety meetings
Safety Incidents	<ul style="list-style-type: none"> 2 recorded Design-Builder employee injuries and 1 Ministry recorded employee injury

Design

Completed this Month	<ul style="list-style-type: none"> Ongoing meetings with various regulatory agencies/stakeholders Continued development and review of design including detour implementation, oversized vehicle accommodation, drainage, roadway, electrical, and bridge design
Key Activities for Next 3 months	<ul style="list-style-type: none"> Ongoing review of design submissions Ongoing meetings with various regulatory agencies/stakeholders

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> Embankment placement of Hwy 17 lane shift completed Gravel placement and drainage culverts along Hwy 17 lane shift Watermain installation continued along River Road south side shoulder and ditch. <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Hwy 17 Box culvert extension at 96th St ditch completed <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> Hwy 91C EB lane widening completed as part of Hwy 91C lane shift Wildlife salvage ongoing <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> Wildlife salvage ongoing in the former Delta Nature Reserve area Construction of the embankment fill in the southeast quadrant of the Nordel Way interchange started Delta Nature Reserve boardwalk pre-construction meeting held, clearing begun
Key Activities for Next 3 months	<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 construction Implementation of Hwy 17 lane shift <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Hwy 91C alignment shift and lane width reduction Preload of new alignments to begin on North Side of Hwy 91C

	<ul style="list-style-type: none"> • Drainage construction in 96th street ditch <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Clearing and grubbing south side Hwy 91C • Preload north and south sides of Hwy91C • Lane shift at intersection of Hwy 91C and truck parking access <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Implementation of Hwy 91 SB to Nordel EB loop ramp lane shift • Wildlife Salvage in south east quadrant of Nordel Interchange • Preload placement in south east quadrant of Nordel interchange • Delta Nature Reserve Boardwalk construction
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Traffic Management

Completed this Month	<ul style="list-style-type: none"> • Nighttime lane closures Hwy 17 EB • Nighttime lane closures Hwy 17 WB • Nighttime lane closures Hwy 91C EB lanes
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Nighttime lane closures Hwy 17 EB, WB and Hwy 91C • Nighttime lane closures Hwy 91 SB and Hwy 91 SB to Nordel EB loop ramp for detour construction • Pending approvals of work plans, preload activities anticipated in all segments

Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Ongoing quality audits with Design-Builder
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing implementation and monitoring of quality management system • Ongoing quality audits

6. Milestones Achieved Date

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

Activity Name	Milestone Date (August 2020 Works Schedule):	Actual Start
Construction Start Highway 91 / Nordel Way Interchange Delta Nature Reserve Boardwalk Highway 91C / Weigh Scale Interchange Highway 91C/ Highway 17 Interchange Highway 17 / River Road Interchange	April 6, 2020 July 2, 2020 April 6, 2020 April 6, 2020 April 6, 2020	June 16, 2020 September 28, 2020 August 20, 2020 July 12, 2020 May 8, 2020
Construction Complete Highway 91 / Nordel Way Interchange Delta Nature Reserve Boardwalk Highway 91C / Weigh Scale Interchange Highway 91C/ Highway 17 Interchange Highway 17 / River Road Interchange	October 27, 2022 December 18, 2020 April 13, 2023 November 7, 2022 November 3, 2021	
Substantial Completion Date	<i>November 30, 2022</i>	
Total Completion Date	<i>May 31, 2023</i>	

7. Site Photographs



S1 (River Rd East Roundabout/W01 Detour): Excavation and Preload/embankment fill placement. Taken September 3, 2020



S4 (BCTFA Property): Flooded open excavation of the East Watermain tie-in. Taken September 8, 2020



S3 (Hwy 91C/C01 Detour South): Embankment fill placement ongoing during night shift. Taken September 16, 2020



S1 (River Rd West Roundabout): Several sizes, and variations of CSP culverts have arrived. Taken September 22, 2020



S2/S3 (Hwy 91C/C01 Detour South): The road widening construction has reached the top of the road base gravel layer. Taken September 25, 2020



S4 (Hwy 91NB Off-ramp Laydown Area): Various material stockpiles and waste piles being stored and consolidated on a regular basis. Taken September 30, 2020

8. Project Cost Report

- To date, \$78.9 million has been spent on the Project
- The approved capital Project budget is \$260 million