

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending August 31, 2021

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, audits 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.	●	●	●	Most key Project activities are proceeding on schedule. Working to mitigate schedule impacts
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 is being 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 implementation ongoing by the Design-Builder.
Third Parties	Continue to build and maintain positive relationships with Project Partners and other third parties.	●	●	●	Ongoing engagement 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 Owner's works are complete
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

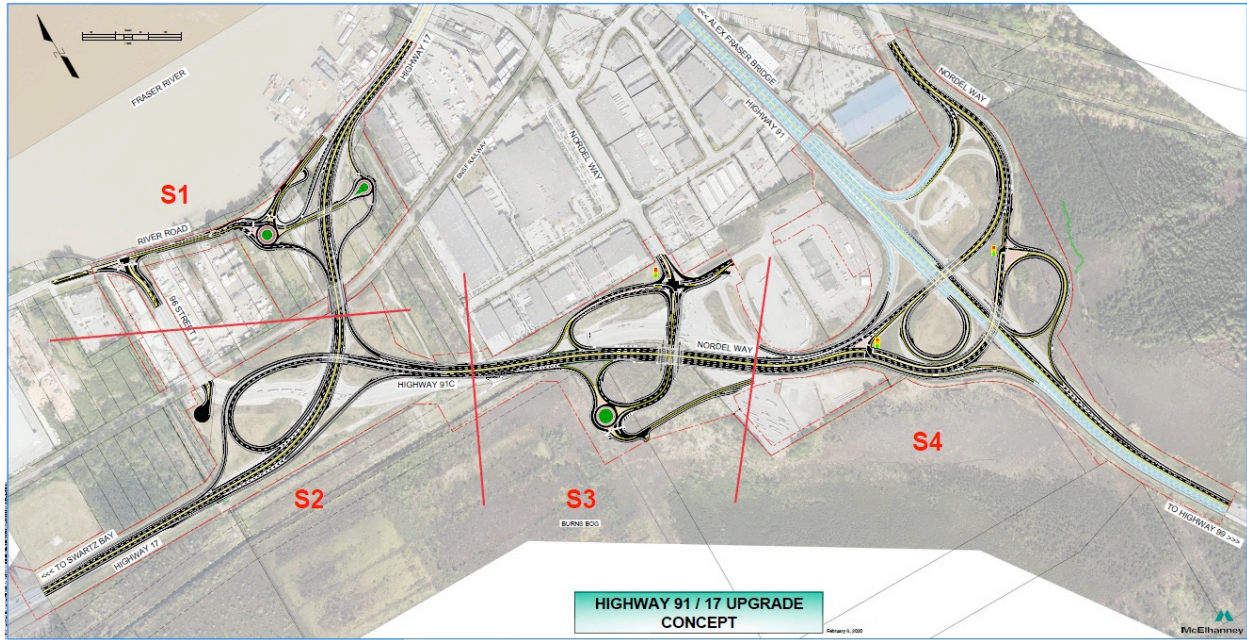
2. Introduction

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 were completed in 2019 and are no longer be reported out on in the 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.



August 2021 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> Information bulletin released regarding 50% completion of the Project and other upcoming milestones Ongoing public and stakeholder notification to advise of Project activities including upcoming traffic and construction activities
Environment	<ul style="list-style-type: none"> Environmental protection measures continue as part of increased active construction Design-Builder providing environmental submissions
Safety	<ul style="list-style-type: none"> COVID-19 screenings and physical distancing being followed for staff and visitors Safety inspections ongoing
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"> Pile driving commenced for future sign bases Hwy 17 mainline paving commenced <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Embankment fill of Hwy 91C median commenced Hwy 17/Hwy 91C intersection in detour implementation phase <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> West of Weigh Scale Rd sand embankment ongoing in median of Hwy 91C West of Weigh Scale Rd light weight fill completed <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> Embankment west side of Hwy 91 commenced
Traffic Management	<ul style="list-style-type: none"> Nordel Way to Hwy 91 southbound (SB) ramp closures Hwy 17 westbound (WB) and eastbound (EB) nighttime slow lane closure Hwy 17 WB weekend lane closures Hwy 91C WB and EB nighttime lane closures
Quality	<ul style="list-style-type: none"> 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"> • Information bulletin released regarding 50% completion of the Project and other upcoming milestones • Provided updates to interested stakeholder groups as requested • Reviewed contractor communications • Supported the Design-Builder with traffic and construction notifications to the public, community, and stakeholders • Ongoing Project website updates • Ongoing enquiry response
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Continue to support the Design-Builder regarding upcoming traffic and construction notifications • Convene next quarterly Traffic Advisory Committee meeting • Ongoing enquiry response • Ongoing Project website updates

Environment

Completed this Month	<ul style="list-style-type: none"> • Ongoing regular weekly meetings with the Design-Builder regarding environmental components of the Project • Ongoing securing, extension, and amendment of environmental permits – close out reports being received for some sections • Environmental Work Plans and reports received and implemented • Design-Builder environmental protection measures and mitigations ongoing for the Delta Nature Reserve (DNR), Burns Bog, and Project interface locations
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Securing, extension, and amendment of environmental permits as required • Ongoing environmental oversight of Design-Builder’s environmental mitigation measures • Ongoing submission review in accordance with the DBA requirements

Agriculture

Completed this Month	<ul style="list-style-type: none"> No active items this month.
Key activities for Next 3 months	<ul style="list-style-type: none"> Monitor construction to meet Agricultural Land Commission (ALC) conditions and proceed with any 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 Design-Builder and Project team Continued communication with Indigenous groups regarding Project construction activities Contracting and employment opportunities for environmental monitoring ongoing
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 staff Ongoing COVID-19 protocol implementation
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 Ongoing COVID-19 protocol implementation
Safety Incidents	<ul style="list-style-type: none"> 2 first aid incidences

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, landscape, drainage, roadway, electrical, structural, and bridge design Ongoing review of Project-wide guide sign designs
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">• River Road sidewalk and multi-use path paving and concrete work ongoing• River Road structure parapets, bridge end fills, membrane and paving ongoing• Pile driving commenced for future sign bases• Hwy 17 mainline paving commenced <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Embankment fill of Hwy 91C median commenced• Hwy 17 structure stone column installation continues• Hwy 17 structure drilled shafts work ongoing• Hwy 17/Hwy 91C intersection in detour implementation phase <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Pulverizing existing Hwy 91C lanes for upcoming embankment fill• West of Weigh Scale Rd sand embankment ongoing in median of Hwy 91C• West of Weigh Scale Rd light weight fill completed• Drainage installation along west side of Hwy 91C <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none">• Lock block wall construction on west side of Hwy 91• Embankment west side of Hwy 91 commenced <p>Hwy 99 – Preload removal</p> <ul style="list-style-type: none">• Sand Preload removal complete.
Key Activities for Next 3 months	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none">• Paving and opening of River Road Interchange to traffic <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Complete installation of Sunbury structure stone columns• Complete Sunbury structure drilled shafts <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Light weight fills over utilities• Weigh Scale Interchange structure construction• Hwy 91C north ramp construction to Nordel Way <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none">• Hwy 91 west side construction (Nordel Way to Hwy 91 SB on-ramp)• Embankment fill on west side of Hwy 91

Traffic Management

<p>Completed this Month</p>	<ul style="list-style-type: none"> • Nordel Way to Hwy 91 SB ramp closures • Hwy 17 WB and EB nighttime slow lane closure • Hwy 17 WB weekend lane closures • Hwy 91C WB and EB nighttime lane closures
<p>Key Activities for Next 3 months</p>	<ul style="list-style-type: none"> • Nighttime lane closures Hwy 17 EB, WB and Hwy 91C • Nighttime lane closures Nordel way to Hwy 91 SB on ramp for alignment construction • Weekend day/night closures on Hwy 91SB slow lane • 2 min closures Hwy 91C and 96th Street for rock truck crossings • Weekend day/night closures Hwy 17 EB and WB slow lanes

Quality

<p>Completed this Month</p>	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Ongoing quality audits with Design-Builder
<p>Key Activities for Next 3 months</p>	<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 August 2021 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (August 2021 Works Schedule)
Construction Start		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	N/A
Highway 91C / Weigh Scale Interchange	April 6, 2020	August 14, 2020
Highway 91C/ Highway 17 Interchange	April 6, 2020	July 12, 2020
Highway 17 / River Road Interchange	April 6, 2020	May 8, 2020
Construction Complete		
Highway 91 / Nordel Way Interchange	September 15, 2022	November 28, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	March 8, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 30, 2022
Highway 91C/ Highway 17 Interchange	March 15, 2023*	November 30, 2022
Highway 17 / River Road Interchange	October 4, 2021	November 25, 2021
Substantial Completion Date	<i>November 30, 2022</i>	<i>November 30, 2022</i>
Total Completion Date	<i>May 31, 2023</i>	<i>May 31, 2023</i>

* Deferred completion date for limited alignments; majority of Section complete for November 30, 2022

Non-conforming Milestone dates and corrective actions to address schedule delays are under discussion with the Design-Builder.

7. Site Photographs



S1: River Road structure – West parapet wall rebar. Taken August 1, 2021



S1: River Road structure – East parapet concrete poured. Taken August 8, 2021



S3: Nordel Truck Pkg – Survey layout for Storm work. Taken August 13, 2021



S1: Guide sign 50 foundation. Taken August 20, 2021



S1: newly paved River Rd structure East app. Taken August 30, 2021



S3: LWF excavation along ex. Gas ROW. Taken August 31, 2021

8. Project Cost Report

- To date, \$144.8 million has been spent on the Project
- The approved capital Project budget is \$260 million