

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending December 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 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, including those from the November storm event
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 Construction Environment Management Plan.
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 and Maintain 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

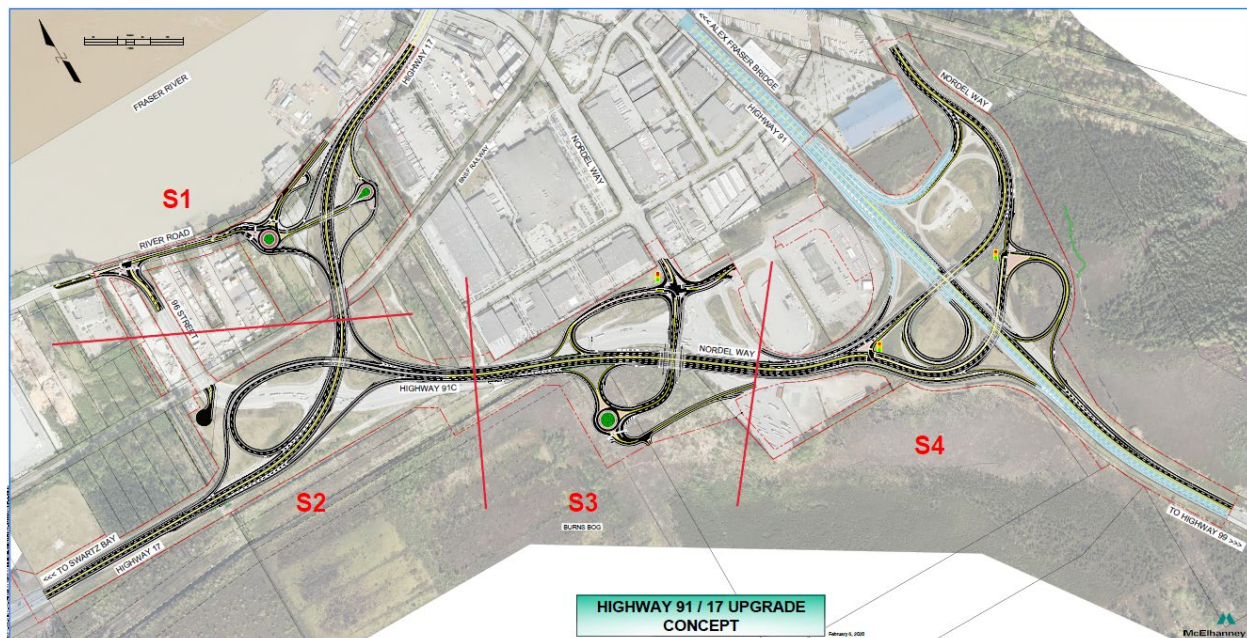
2. Introduction

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.



December 2021 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> • 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 active construction areas, no significant issues of concern • Design-Builder providing environmental submissions • Design-Builder initiated work on Habitat Offsetting sites • Project Site prepared for holiday shut down
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"> • River Road Interchange fully opened <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Embankment fills on 96th St. and south side of Hwy 17 commenced • 96th St. and River Road intersection realigned • 96th St. south of rail crossing closed <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Sand preload removal ongoing on south side of Hwy 91C <p>Segment 4 – Highway 91 / Nordel Way Interchange</p> <ul style="list-style-type: none"> • Widening of Nordel Way north side by the Weigh Scale
Traffic Management	<ul style="list-style-type: none"> • Hwy 17 WB and eastbound (EB) nighttime slow lane closure • Hwy 91 northbound (NB) 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">• Provided updates to interested stakeholder groups as requested• Reviewed Design-Builder communications submissions• 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 to the public, community and stakeholders• 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• Habitat Offsetting/Landscaping site work has commenced in specific areas, most notably in Section 1• Environmental Project Site assessment completed in preparation for holiday shutdown
Key Activities for Next 3 months	<ul style="list-style-type: none">• On-site environmental monitoring of the Design-Builder's environmental mitigation measures to confirm compliance during construction,• On-going submission review in accordance with the Design-Build Agreement (DBA) requirements

Agriculture

Completed this Month	<ul style="list-style-type: none">• Design-Builder sourcing and reviewing off-site peat material, in particular near sensitive bog locations
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
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	<ul style="list-style-type: none"> 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"> Minor property damage 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 Ongoing discussion on design of Tilbury/Hwy 17 to accommodate oversized vehicles
Key Activities for Next 3 months	<ul style="list-style-type: none"> Ongoing review of design submissions Ongoing meetings with various regulatory agencies/stakeholders as required

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> River Road Interchange fully opened <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Embankment fills on 96th St. and south side of Hwy 17 commenced Hwy 17 structure columns and pier cap installation ongoing 96th St. and River Road intersection realigned Crack filling Hwy 17 westbound (WB) lanes at western limits <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p>
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	<ul style="list-style-type: none"> • Drilled shafts commenced at segment 3 structure • Sand preload removal ongoing on south side of Hwy 91C <p>Segment 4 – Highway 91 / Nordel Way Interchange</p> <ul style="list-style-type: none"> • Widening of Nordel Way north side by the Weigh Scale • Sand removal on east side of Hwy 91, future drilled shafts in preparation
Key Activities for Next 3 months	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • River Road cul-de-sac completion • Finishing works and landscaping <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Preload of 96th Street • Segment 2 structure columns and girder installation with full detour of Hwy 17 • Hwy 17/Hwy 91C Interchange detour implementation • Excavation and construction of Hwy 17 west ramp <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Hwy 91C EB to Hwy 17 detour implementation • Weigh Scale structure construction <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Completion of Hwy 91 east side embankment • Removal of sand preload and commence drilled shafts of Nordel Way structure • Preload removal in southeast quadrant of Nordel interchange • Embankment fill on east side of Hwy 91

Traffic Management

Completed this Month	<ul style="list-style-type: none"> • Hwy 91 SB to Nordel Way EB offramp closures • Hwy 17 WB nighttime slow lane closure • Hwy 91C WB nighttime slow lane closures
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 Nordel way to Hwy 91SB on ramp for Hwy 91 west side construction • Weekend day and night closures Hwy 91SB slow lane • Weekend day and night closures Hwy 17 EB and WB slow lanes

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 December 2021 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (December 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 10, 2022
Highway 17 / River Road Interchange	October 4, 2021	December 2, 2021
Substantial Completion Date	November 30, 2022	November 30, 2022
Total Completion Date	May 31, 2023	May 25, 2023

* 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



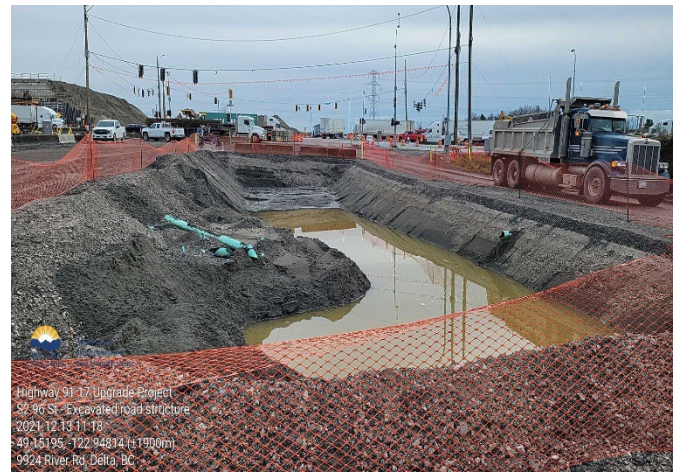
S1: River Road east roundabout - hydroseeded slopes. Taken December 1, 2021



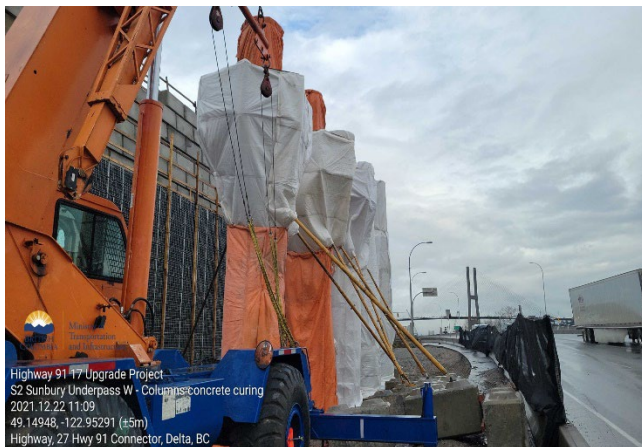
S1: Hwy 17 River Road Interchange opened to traffic. Taken December 3, 2021



S4: Wet conditions on site. Taken December 6, 2021



S2: 96th Street excavated road structure. Taken December 13, 2021



S2: Sunbury structure W - columns concrete curing. Taken December 22, 2021



S4: Snowy conditions. Taken December 30, 2021

8. Project Cost Report

- To date, \$163.5 million has been spent on the Project
- The approved capital Project budget is \$260 million