

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending May 31, 2022

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 potential 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 being 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

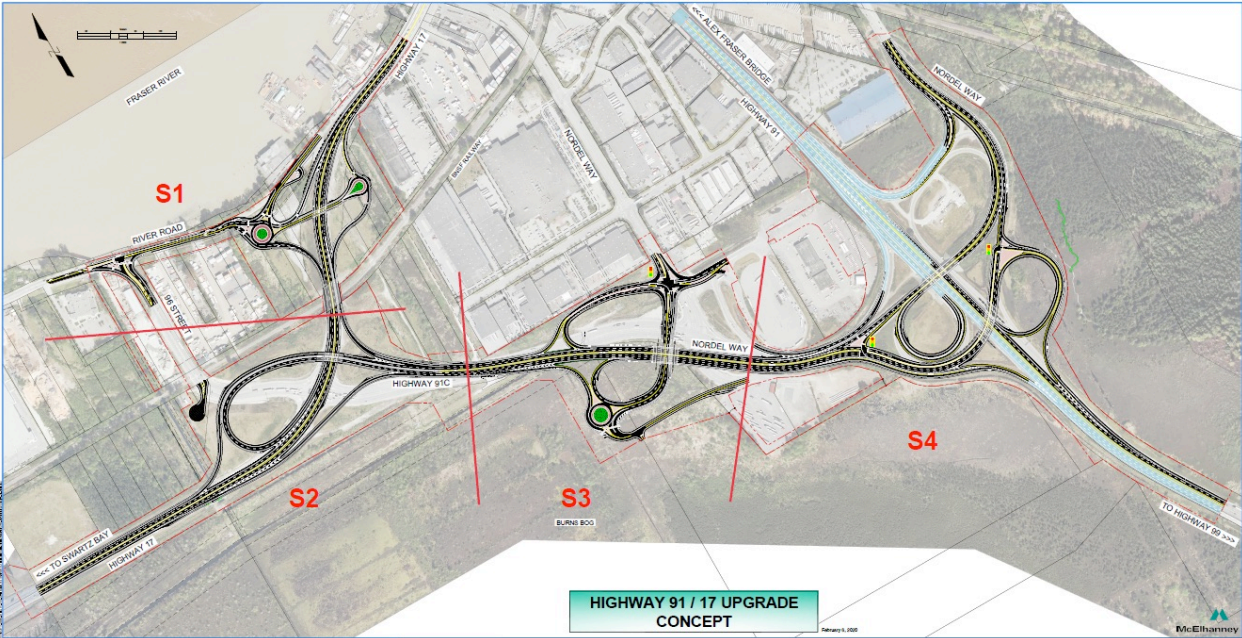
2. Introduction

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 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.



May 2022 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, actively addressing any areas of concern, • Design-Builder providing environmental submissions • Design-Builder continues work on Habitat Offsetting sites; weather dependent • Project continues to maintain focus on some site issues, in particular elevated turbidity in watercourses.
Safety	<ul style="list-style-type: none"> • COVID-19 screenings and physical distancing being followed for staff and visitors • Safety inspections ongoing • Three first aid incidents reported
Construction	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Milling and paving on Hwy 17 eastbound (EB) and westbound (WB) slow lanes • Guide sign installation in Sunbury west ramps <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Ongoing Tilbury contaminated soil excavation • Guide sign columns installation on Hwy 17 EB <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Segment 3 structure construction and deck pour • Paving ongoing in Nordel north <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> • Segment 4 structure construction ongoing • Gravel hauling from Hwy 91C north alignment stockpile to Hwy 91 east side alignment
Traffic Management	<ul style="list-style-type: none"> • Hwy 91 southbound (SB) to Nordel Way EB offramp closures • Hwy 17 WB nighttime slow lane closure • Hwy 91C WB nighttime slow lane closures • Nordel Way WB and EB lane closures
Quality	<ul style="list-style-type: none"> • Ongoing development / revising of quality documents (QMPs, QSPs, ITPs). • Starting development / assembling of Quality Turnover Packages • Ongoing auditing and site monitoring of Design-Builder

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 review of environmental reports and Project Site to ensure potential issues are being addressed,• Environmental Work Plans (EWPs) are now generally complete• Ongoing Design-Builder management of environment and permit obligations• Habitat Offsetting/Landscaping site work recommencing where sites are available and ready• Relocation of contaminated material in the Sunbury area completed, finalizing capping and liner installations
Key Activities for Next 3 months	<ul style="list-style-type: none">• Onsite environmental monitoring of the Design-Builder's environmental mitigation measures to confirm compliance during construction• Maintain prudent environmental site monitoring with a focus on watercourses and ESC fencing,• On-going submission review in accordance with the DBA requirements• Continue to monitor final construction activities in the designated Sunbury contaminated waste area as it is completed

Agriculture

Completed this Month	<ul style="list-style-type: none"> No activity 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 <p>Contracting and employment opportunities for environmental monitoring ongoing</p>
Key Activities for Next 3 months	<ul style="list-style-type: none"> Responses to Indigenous group comments on key Project documents Ongoing 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"> Three first aid incidents and two property damage incidents

Design

Completed this Month	<ul style="list-style-type: none"> Review of project turnover packages Review of ongoing submissions and variance requests
Key Activities for Next 3 months	<ul style="list-style-type: none"> Review Design-Builder Records Documentation/Turnover Packages Review of remaining guide sign designs Ongoing meetings with various regulatory agencies/stakeholders as required Review Record Drawings Perform informal site walkthroughs and generate interim deficiency lists

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none">• Milling and paving on Hwy 17 EB and WB slow lanes• Guide sign installation in Sunbury west ramps <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Ongoing Tilbury contaminated soil excavation• Hwy 17 structure deck pour preparation ongoing• Guide sign columns installation on Hwy 17 EB• Sand preload removal north of 96th street <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Segment 3 structure construction and deck pour• Paving ongoing in Nordel north• Hwy 91C WB slope erosion repairs <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none">• Nordel Way lead installation• Segment 4 structure construction ongoing• Nordel Way WB lane leveling paving ongoing• Gravel hauling from Hwy 91C north alignment stockpile to Hwy 91 east side alignment• Sand preload removal east of Hwy 91
Key Activities for Next 3 months	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none">• Guide sign installation• Top lift paving on Hwy 17 east of new structure• River Road top lift pavement <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Segment 2 structure deck pour• Excavation and construction of Hwy 17 west ramp, east of box culvert <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Nordel Way at Weigh Scale Road intersection construction• Weigh Scale structure construction• Roundabout construction <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none">• Nordel Way cross culvert and widening• Nordel Way structure columns and pier cap construction• 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• Nordel Way WB and EB lane closures
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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 • July long weekend warrior with Segment 3 interchange opening • Weekend day and night closures Hwy 91 SB slow lane • Weekend day and night closures Hwy 17 EB and WB slow lanes
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Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Development/assembling of Quality Turnover Packages • Ongoing auditing and site monitoring of the 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 • Ongoing site quality monitoring • Start of Turnover Packages review

6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the May 2022 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (May 2022 Works Schedule)
Construction Start		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	September 28, 2020
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 25, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	March 8, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 14, 2022
Highway 91C/ Highway 17 Interchange	March 15, 2023*	October 19, 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 19, 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



S2: Gravelling north of 96th Street. Taken May 7, 2022



S3: Weigh Scale Overpass. Taken May 7, 2022



S3: East overpass approach. Taken May 7, 2022



S3: Roundabout signage. Taken May 7, 2022



S4: Hwy 91 east side alignment sand removal. Taken May 7, 2022



S4: Nordel overpass. Taken May 7, 2022

8. Project Cost Report

- To date, \$188.5 million has been spent on the Project
- The approved capital Project budget is \$260 million