

# MUFFORD CRESCENT / 64<sup>TH</sup> AVENUE OVERPASS



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## HIGHLIGHTS:

### DESCRIPTION:

Bridge, road and utility construction

### LOCATION:

Langley, BC

### CLIENT:

BC Ministry of Transportation & Infrastructure

### PROJECT VALUE:

\$51 M

### VALUE OF CIVIL WORKS:

\$24 M

### PROJECT COMPLETED:

October 2014

### MATERIALS SUPPLIED:

Ready Mix - 4,000 m<sup>3</sup>  
Aggregate - 12,000 m<sup>3</sup>  
Asphaltic Concrete - 26,800 tonnes  
Recycled Asphalt - 2,000 tonnes

## THE PROJECT

In 2014, Lafarge completed the construction of the Mufford rail overpass located on Highway 10 in Langley, British Columbia, marking the official completion of all nine Robert Banks Rail Corridor (RBRC) infrastructure improvement projects in the Lower Mainland. The RBRC Program is a \$307-million dollar partner initiative designed to relieve traffic congestion, improve road reliability and significantly improve the transport of international freight and Canadian exports shipped through Lower Mainland communities.

## THE SCOPE

The Mufford Crescent Overpass project consisted of five lane kilometers of highway construction, including a 100 meter, four-lane rail bridge. The project also involved complex environmental and traffic management, including 24 hour coordination with the Township of Langley, the Ministry of Transportation and Infrastructure, and Canadian Pacific Railway.

Key issues which were successfully managed on the project included: pile-driving into challenging soil conditions, construction of cast-in-place concrete superstructures and managing multiple subcontractors and trades during construction in a constrained environment.





## LAFARGE PARTICIPATION

Lafarge's role as general contractor included assembling a team of construction, aggregates, asphalt and ready-mix concrete experts to bring the depth and expertise needed on this collaborative project. Lafarge constructed the entire overpass, including cast-in-place bridge girders, the foundation, piers, abutment walls and bridge deck.

We also provided services including; preload removal, earthworks and grading, installation of storm and sewer utilities, and the supply and placement of 12,000 m<sup>3</sup> of aggregates, 4,000 m<sup>3</sup> ready-mix concrete, 26,800 tonnes of asphaltic concrete and 2,000 tonnes of recycled asphalt.



## PROJECT DELIVERY

The highway surface was designed with a class one medium asphalt mix design, leveraging recycled asphalt product from the existing asphalt pavement. The reuse and re-purposing of this material provided sustainability and budgetary advantages, allowing us to increase the recycled content while maintaining its durability and integrity.

Lafarge coordinated a massive team and over a dozen sub-trades to successfully complete this project on schedule and on budget.



### CONSULTANT REFERENCE:

NAME:	Ross Coates
TITLE:	Project Manager, Promona Projects
TELEPHONE:	(250) 598-7214
EMAIL:	rcoates@promanaprojects.com

### CLIENT REFERENCE:

NAME:	Ron Shimizu
TITLE:	Project Manager, CMS Focus
TELEPHONE:	(250) 812-2004
EMAIL:	ron.shimizu@focus.ca



**Lafarge Western Canada**  
**CORPORATE OFFICE**  
 300-115 Quarry Park Road SE  
 Calgary, AB T2V 5G9

Lafarge.ca