

# HARVIE PASSAGE

## 2013 FLOOD DAMAGE REPAIR PROJECT UPDATE

January 2016

Welcome to the January 2016 update for the Harvie Passage 2013 Flood Damage Repair project. As the project advances through the design and construction stages, we will keep you informed via this newsletter.

### Project Status

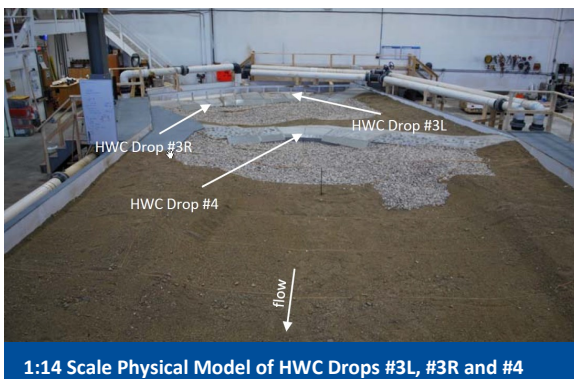
#### Preliminary Engineering Complete

We would like to thank all stakeholders who participated in the development of the preliminary design of the Harvie Passage 2013 Flood Damage Repair Project.

Preliminary design of Harvie Passage included: developing conceptual plans based on recommendations of the conceptual study report; preparing a project design basis memorandum; physical hydraulic modelling of High Water Channel (HWC) Drops #4, #3L, and #3R (see picture below); 1D and 2D numeric modeling of the new Low Water Channel (LWC); morphodynamic modelling of the Bow River; preliminary design of the permanent works; identifying construction sequencing including temporary works such as river diversions, coffer dams, construction laydown areas and access; preparing a biophysical impact assessment and regulatory applications; developing a project implementation schedule; and preparing cost estimates and issued for regulatory approval drawings. The Preliminary Engineering Report was submitted in December 2015.



Throughout the preliminary engineering phase stakeholder input was solicited at key junctures. Two workshops as well as a physical model demonstration were held with river user groups and several information meetings were held with representatives from Alberta Transportation, Alberta Environment and Parks, City of Calgary Water's Resources, Parks, Fire Department, Corporate Security, Bylaw Enforcement, and the Public Art Program.



#### Next Stage – Final Design

The next stage of the Project is the final design which aims to refine the preliminary design by collecting more detailed information, including further input from stakeholders, and obtaining the required regulatory approvals.

During final design, construction specifications and drawings will be produced to publically tender the project, which is scheduled in 2016. Construction is tentatively scheduled to start in August 2016 and be complete by May 2018.

## Project Team

**Facility Owner and Operator:**

Alberta Environment and Parks

**Project Manager:**

Alberta Transportation

**Engineering Consultants:**

- Klohn Crippen Berger Ltd  
*Project management, civil design and construction*
- Northwest Hydraulics Consultant Ltd  
*Physical and numeric hydraulics and river morphology*
- Recreation Engineering and Planning  
*Recreational hydraulics*
- SG1 Water Consulting Ltd  
*Hydraulics and recreational hydraulics*

Mr. Charles Walbridge  
*Aquatic safety specialist*

## Project Goals

The goal for the rehabilitation of Harvie Passage is to reinstate the pre-flood functional intent of the project.

The key aspects of this goal are:

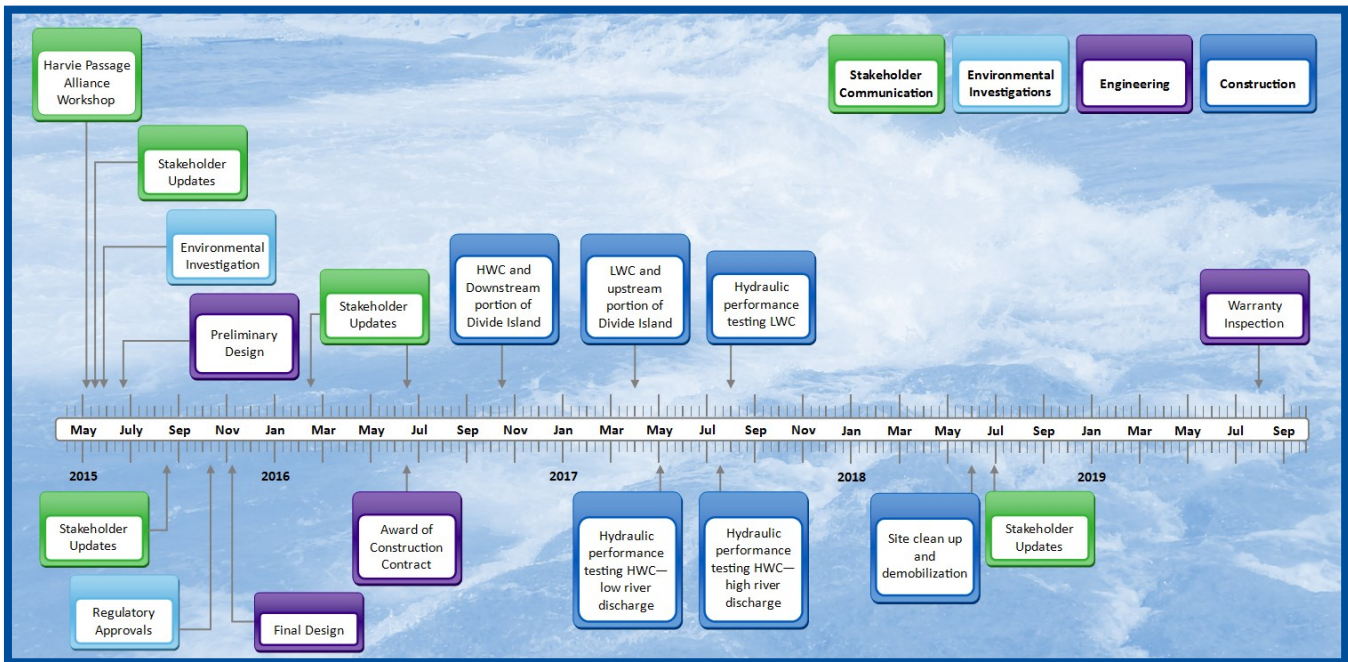
**Safety** – allow for safer passage for all types of water craft and fish

**Structure integrity** – Design to withstand a 1 in 100 year flood with reasonable levels of maintenance.

**Recreation** – Provide a variety of features for recreational and educational use.

## Project Schedule

*Dates are subject to change.*



## For More Information

An open dialogue with all stakeholders is always important to us. If you have any queries or comments about the Harvie Passage 2013 Flood Damage Repair Project we encourage you to contact Chuck Slack, at 403-730-6848 or [slack@klohn.com](mailto:slack@klohn.com).