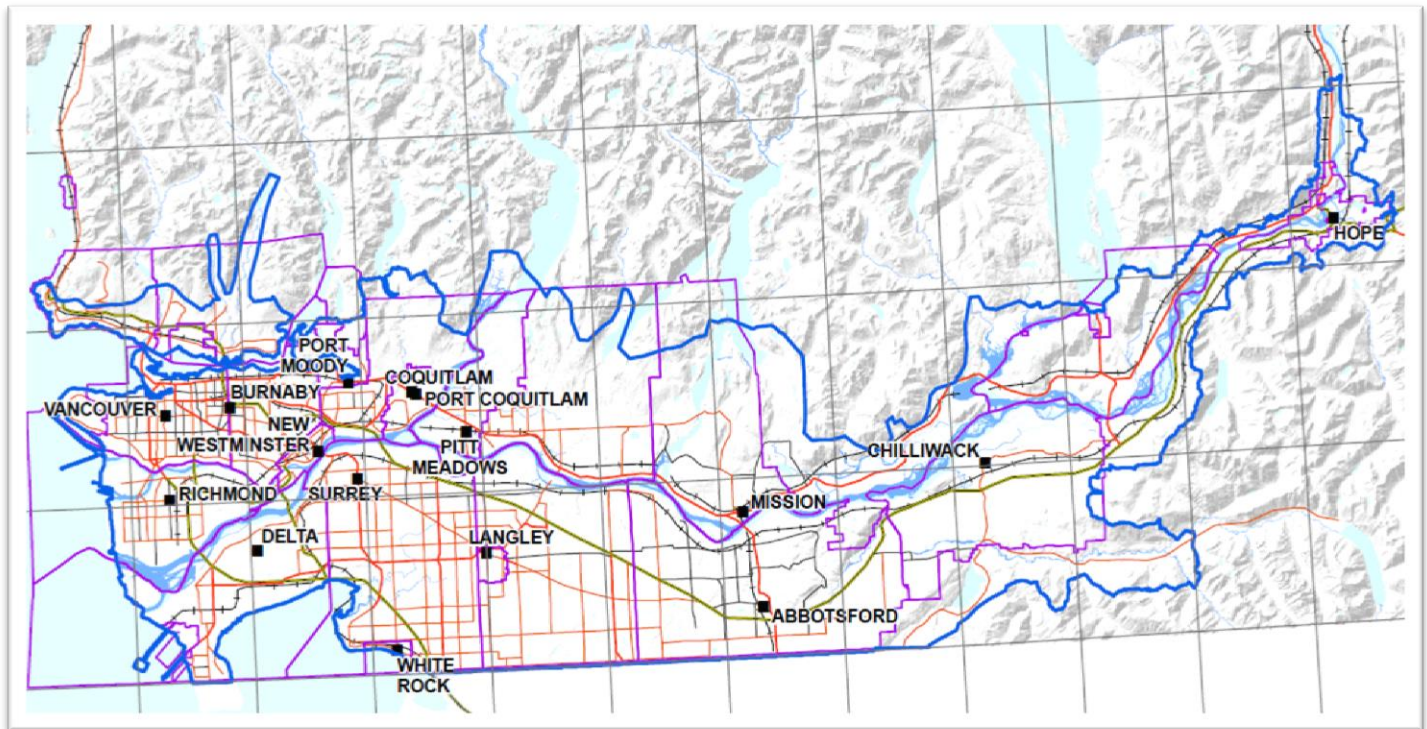


### What is the purpose and scope of this project?

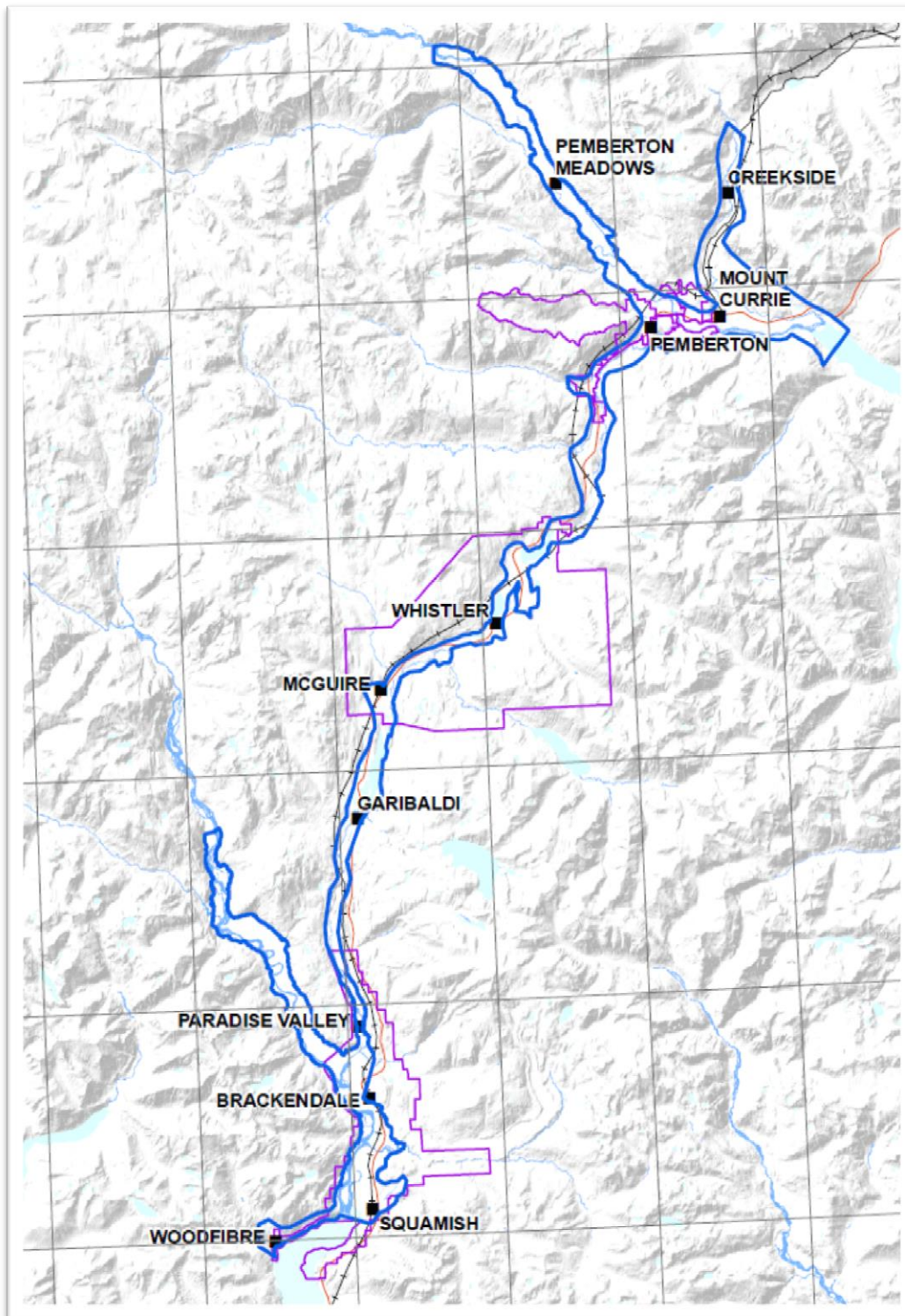
The purpose of the project is to develop and make available topographic data based on LiDAR as well as corresponding ortho-imagery to support flood mapping and flood management.

The project covers two areas:

A) Lower Mainland – Hope to Strait of Georgia + 49th Parallel to Mountains and



B) Squamish to Whistler to Pemberton



## What are the phases and timelines and of the project?

### Phase 1 – Data Acquisition and Processing

- LiDAR Data Acquisition and Processing (April 2016 – July 2017)
- Aerial image acquisition and ortho photo production (June 2016 – September 2017)

### Phase 2 – Access and Application

- River and Floodplain Modelling and Mapping (Sept 2017 - TBD )
- Other Local and Regional Applications (TBD)

## When was the data acquired?

Flying started approx. mid-June and was completed in mid-Sept. 2016. Aerial Imagery and LiDAR was acquired during low tides.

## What are the data specifications?

### LiDAR Data:

- 12 pp/m<sup>2</sup> (on ground / final return)
- Raw LAS files / Classified LAS files
- Bare-earth DEM (Hydrological DEM) / DSM
- LiDAR point cloud (unclassified) accuracy Vertical +/- 15cm RMS
- LiDAR point cloud (unclassified) accuracy Horizontal +/- 6.5cm RMS

#### *Data Type/Format*

- *LiDAR LAS V1.4, Masspoints including first/second/id and last return, intensity data*
- *8bit RGB Stereo Imagery, georeferenced into NAD83/CGVD2013/UTM-Zone10. Z/I stereo model format*
- *8bit Gridded ESRI ASCII DEM in NAD83/CGVD2013/UTM-Zone10*
- *LiDAR LAS 1.4, classified into hydrologic (NOT HYDRAULIC) enforced ground/non ground, broken down into Geographic BC tiles (typically 2Gb or less)*
- *LiDAR LAS 1.4, SPECTRAL ENCODED DSM, 1:2,500 Geographic BC map tile file naming*
- *ESRI ASCII Gridded DEM, 1:2500 Geographic BC map tile file naming, hydrologic (NOT HYDRAULIC !!!) enforced, hydro flattened*

### Orthoimagery:

- 10cm for Lower mainland

#### *Data Type/Format:*

- *8bit RGB Stereo Imagery, georeferenced into NAD83/CGVD2013/UTM-Zone10. Z/I stereo model format*



- *16bit RGBiR Aerial Imagery, TIF file format*

### What data products will be available and when?

- 1m gridded bare earth DEM - July 30, 2017
- 10 m gridded bare earth DEM - July 30, 2017
- Delineated shore line vector data
- 10cm Color orthoimagery - September 30, 2017

### Who can access the data?

Data can be accessed by all levels of government and other agencies that have the mandate to improve hazard mapping in particular flood plain mapping to support planning, mitigation, response and recovery pillars of emergency management. It can also be used for NDMP Stream 2 (Flood Mapping) projects.

### How can I access the data?

For now, data can be accessed on compatible hard drives on a cost recovery basis.

### Are there any restrictions on distribution and use of the data?

A Data Use Agreement will be required between the Province and agency or organization requesting the data. The agreement spells out terms and conditions attached to use of the data. This agreement and the corresponding procedures to facilitate data-sharing are currently in development.