Watershed Restoration Opportunities and Riparian Values Inventory

Disaster Risk Reduction - Climate Adaptation (DRRCA)

Project: Xwémalhkwu First Nation Willow Creek Risk Assessment
Client: Xwémalhkwu First Nation

REWILDING WATER & EARTH

Legend

Proposed Work

- Potential Wetland Restoration
- Stormwater Detention Ponds (Requires Restoration)
- Water Crossing (Requires Restoration)

Contextual Data

- Water Crossing
- Ditch
- Road
- Streams *
- Riparian Area (50m Buffer from Stream Centerline)**
- Existing Wetland/ Riparian
- Lost Wetland/ Riparian
- Xwémalhkwu IR 9
- Xwémalhkwu Owned Land
- Willow Creek Watershed
- DRRCA Potential Outside Xwémalhkwu Jurisdiction

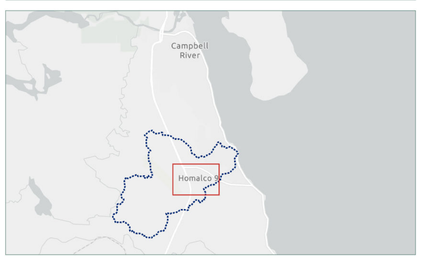
* Streams and wetland layers are compiled from several sources including the Fresh Water Atlas, City of Campbell River, and Current Environmental, with additional manipulation by RWE based on field experience and LiDAR data investigation.
** Approximate riparian area extent visualization based on a 50m offset from stream centre line. This is not intended as a guide for construction, and the riparian area should be assessed and determined by a QEP following the Riparian Areas Assessment Regulation Protocol prior to land clearing activities.

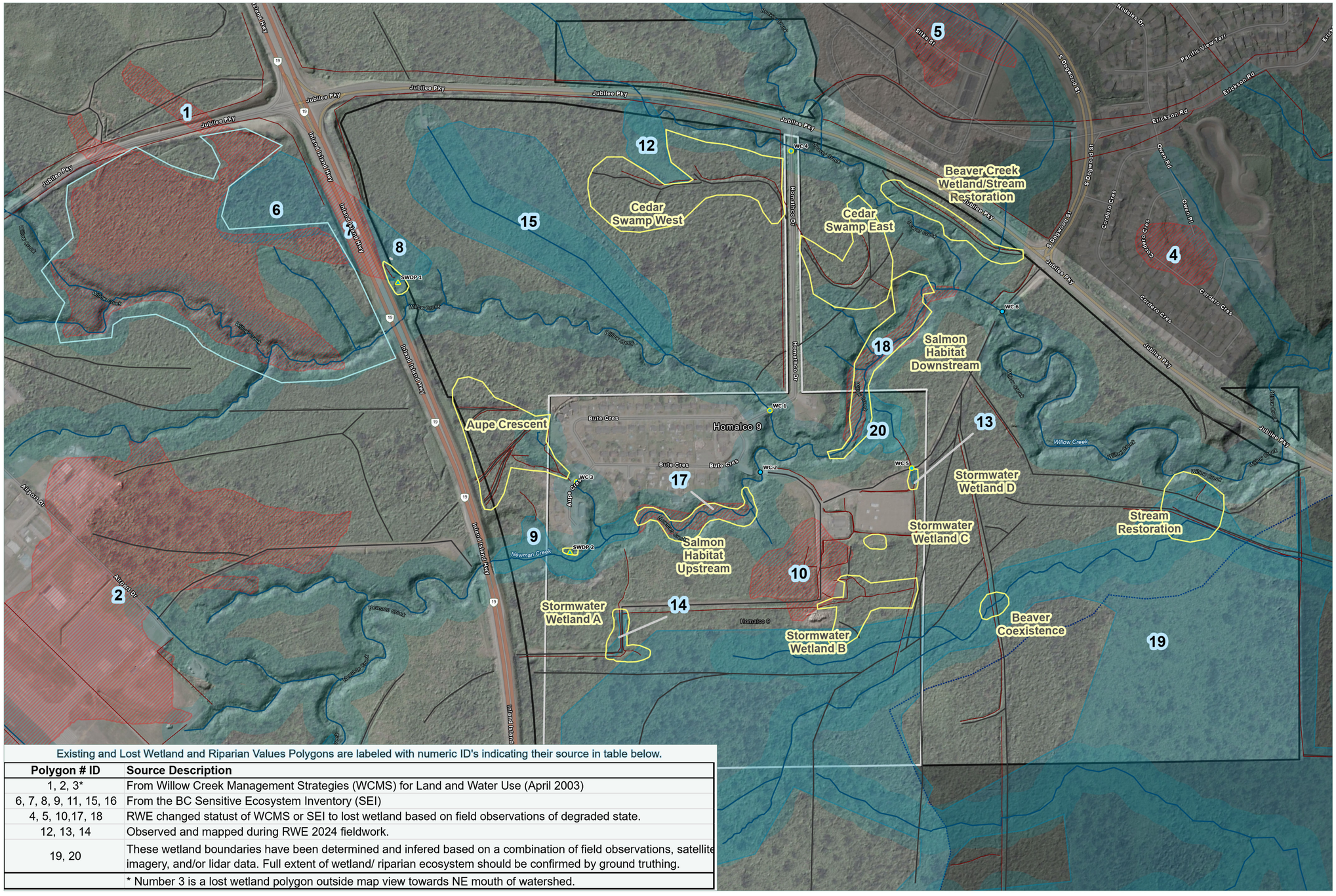
Basemap: Imagery source is ESRI World Imagery with Environment Canada and BC LiDAR hillshade overlay.

Produced April 15, 2025

NAD 1983 BC Environment Albers

0 0.4
Kilometers





Existing and Lost Wetland and Riparian Values Polygons are labeled with numeric ID's indicating their source in table below.

Polygon # ID	Source Description
1, 2, 3*	From Willow Creek Management Strategies (WCMS) for Land and Water Use (April 2003)
6, 7, 8, 9, 11, 15, 16	From the BC Sensitive Ecosystem Inventory (SEI)
4, 5, 10,17, 18	RWE changed statust of WCMS or SEI to lost wetland based on field observations of degraded state.
12, 13, 14	Observed and mapped during RWE 2024 fieldwork.
19, 20	These wetland boundaries have been determined and infered based on a combination of field observations, satellite imagery, and/or lidar data. Full extent of wetland/ riparian ecosystem should be confirmed by ground truthing.
	* Number 3 is a lost wetland polygon outside map view towards NE mouth of watershed.

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