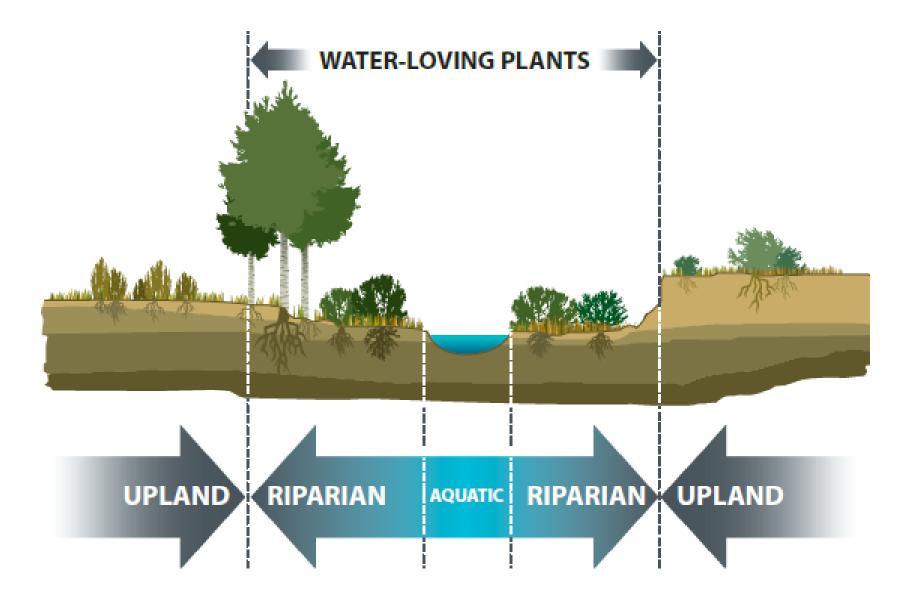


We are the voice of our rivers

## What is a Riparian Zone?

www.CalgaryRiverValleys.org

- Riparian zones are the spaces where land and water interact, a transition zone with wet soil
- "Riparian" is from the Latin ripa, meaning river
- These varied-width riparian zones are "ribbons of green" that border rivers, creeks, and other water bodies, and are the floodplain for that water body, supporting the growth of water-loving plants



- Trees and grasses in riparian areas hold the soil in the bank together and reduce floodwater energy, resulting in reduced damage both there and downstream
- Riparian zones are wild and alive and among the most biologically diverse and productive places in Alberta

## Main Benefits of a Healthy Riparian Zone:

- **1. Flood Risk Management** varied height vegetation increases friction with water to absorb (rather than rebound) water energy during high water events, reducing downstream impacts to safety and infrastructure
- 2. Erosion Control native riparian plants have deep roots to help reduce erosion and bank failure
- **3. Biodiversity** Almost all fish and wildlife depend on riparian areas for some part of their life cycle; riparian zones are often wildlife corridors, providing food, shelter and water
- **4. Water Quality** riparian vegetation filters out contamination from land run-off and also traps sediment within rivers and creeks, making them cleaner
- **5.** Water Quantity sponge-like riparian soil stores water during high water, refilling the underground aquifer, and releasing water to the river or creek during droughts

**Riparian Health Assessments** – surveys to determine the riparian zone's ecological health; conducted by a variety of organizations including Calgary River Valleys. Categorized as:

- Healthy: Deep-rooted native plants strengthen the riverbank, preventing erosion and loss of land. Great habitat is provided for fish and wildlife.
- Healthy with Problems: Native vegetation is starting to disappear, being replaced with bare soil or invasive species. The bank will be prone to washouts with high water, while providing minimal habitat for fish and wildlife.
- **Unhealthy:** Exposed soil and short-rooted invasive species puts the riverbank and adjacent land at great risk at all times of the year. **Habitat loss** for fish and wildlife.

Help us with our riverbank restoration projects! Contact us at: CalgaryRiverValleys2@outlook.com