

Tsleil-Waututh Nation Reserve Shoreline Adaptation and Restoration Project

BC Climate Resilience Summit 2026
Vancouver, Robson Square | March 2-3



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Acknowledgements

Host Nation: Tsleil-Waututh Nation Community Members

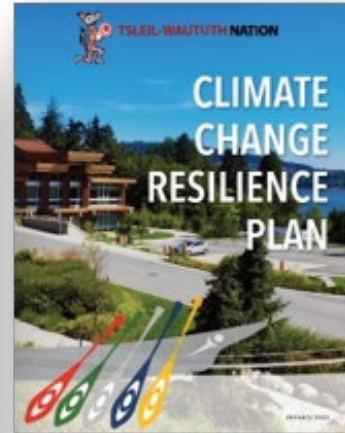
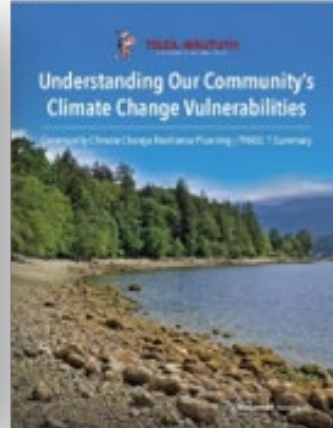
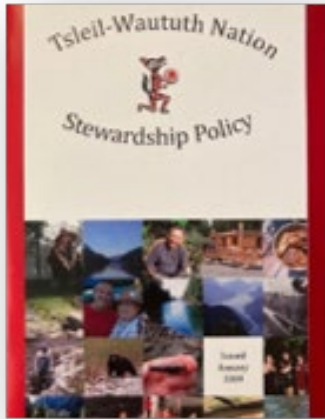
Funding agencies: Government of Canada, Tsleil-Waututh Nation Government, and Government of BC

Project team: Consulting teams and Contractor

Technical Advisory Committee Members: WWF Canada, DFO, VFPA, ECCC, NRCC, Ducks Unlimited, DNV, UBC, WBT, WCEL, Oceanwise



TWN Plans & Policies on Stewardship & Climate Resilience





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Project Lifecycle

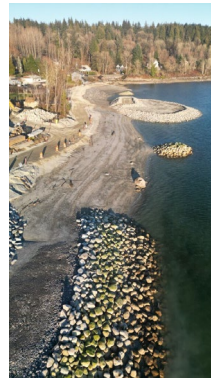
Start of
community
engagement

2020



Climate
Change
Resilience
Action Plan

2021



2025-2026
Construction



2019
Vulnerability
Assessment

2020



2021-2024
Shoreline Visualization &
Design

2021

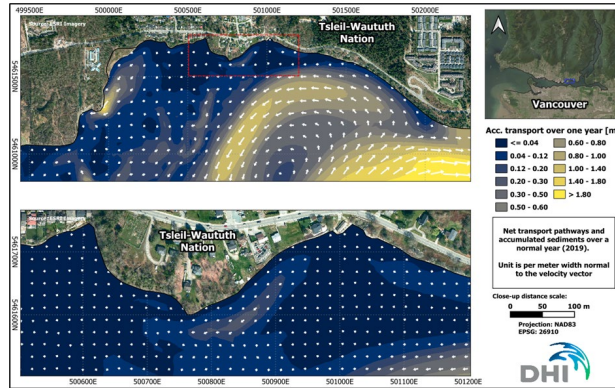


2026+
Stewardship &
Monitoring

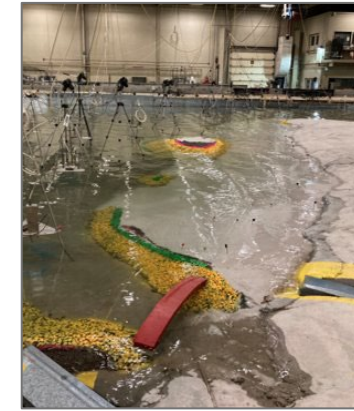


Rooted in Science

Foundational scientific studies alongside traditional knowledge



Numerical Modeling



Physical Modeling

Field Studies & Mapping



Water Level Data Collection



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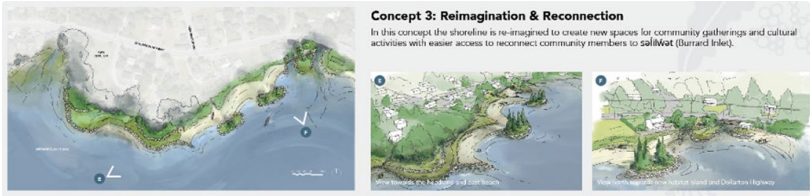
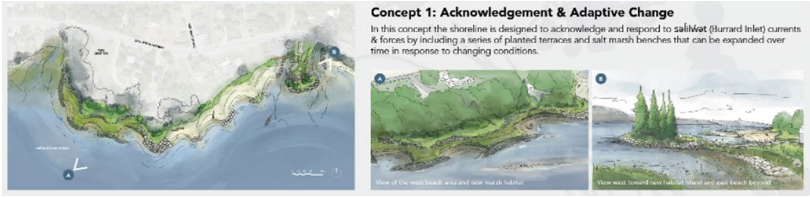


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Design Evolution



Conceptual Design Planning

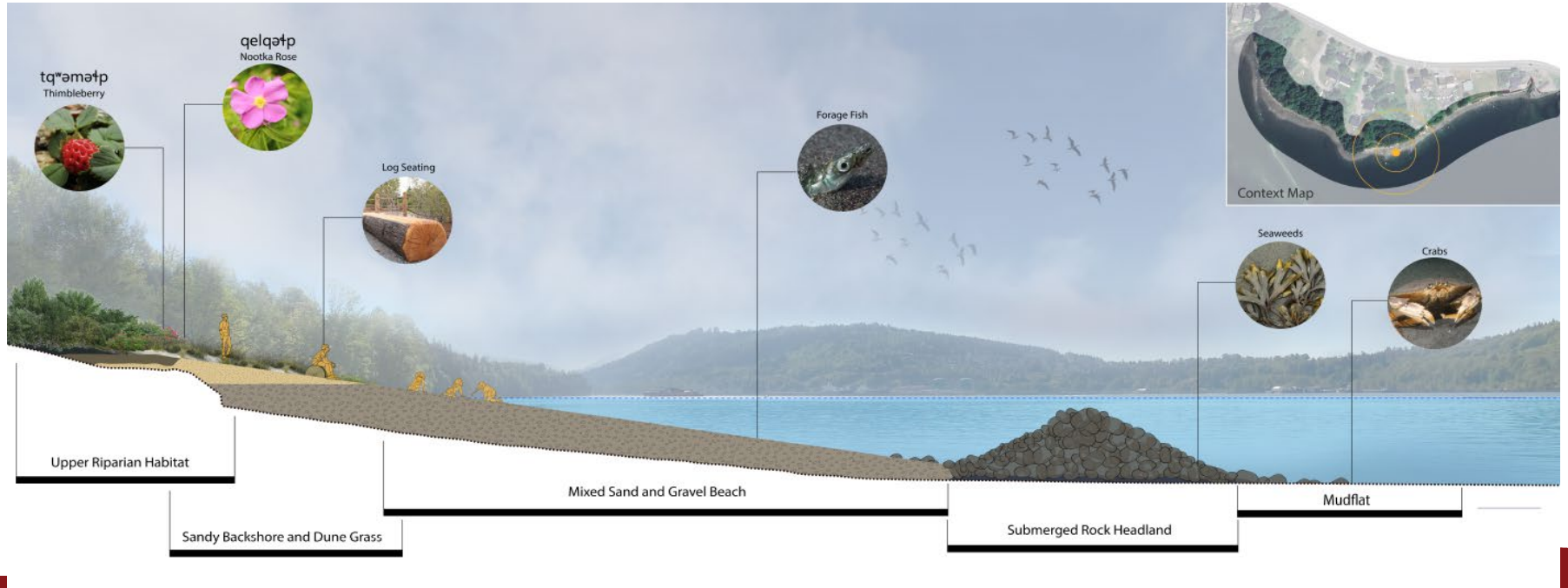


Legend

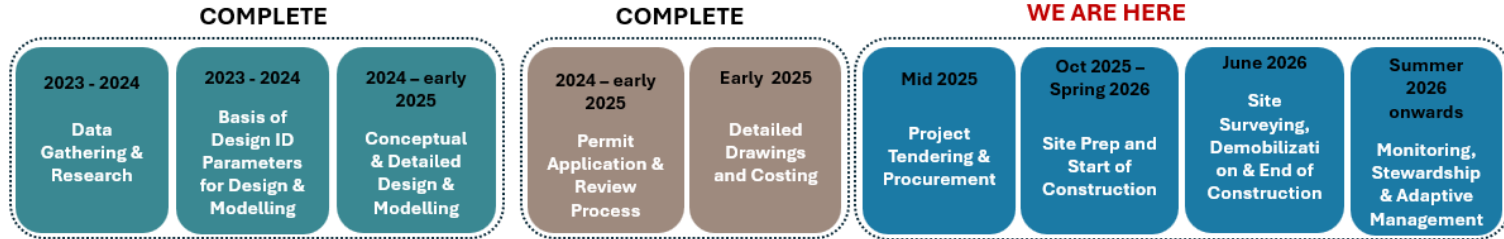
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|----------------------------------|---------------------------------------|--|
| 1. Riparian vegetation | 5. Habitat island | 9. Habitat restoration at creek outfalls |
| 2. Marsh bench | 6. Gravel beach | 10. Existing canoe shed |
| 3. Dynamic marsh-edge protection | 7. Pedestrian bridge | 11. Upgraded canoe launch |
| 4. Rock headlands | 8. Vegetated-boulder slope protection | |



Habitat & Eco-Cultural Stewardship Planning



Construction



ONGOING COMMUNITY ENGAGEMENT & INVOLVEMENT



Implementation Highlights

- Using **Nature-based solutions** – to protect the shoreline & cultural sites. Important community stewardship value. Material is settling, staying in place.
- **Ongoing community engagement** – over 30+ project related engagement sessions including shoreline walks, workshops, open houses, family & other group meetings.
- **Changes to the design** – in response to community feedback.
- **Working at low tide** – construction noise at night.
- Opportunity to **restore culturally important native plants** through replanting and invasive species management.
- **Monitoring** to follow after construction.

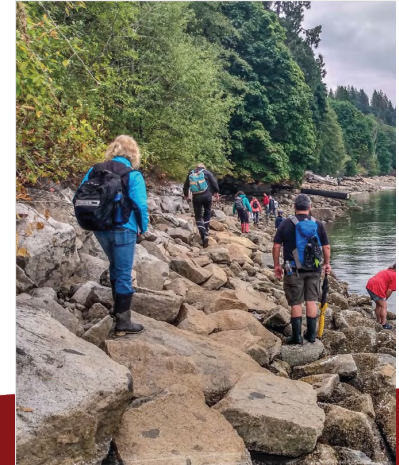


Key Takeaways

Coastal flood and erosion adaptation projects **are** place-building projects and must consider the history, culture and environment.

Early investments in community engagement, Indigenous knowledge and science are **essential**.

Shoreline restoration requires an **adaptive/flexible** approach **and** **collaboration** between community and multi-disciplinary teams.



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Thank you



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