









Outreach Updates

2022 Outreach summary

Date	Event	Location
May 1 st	The River Never Sleeps	Area H
June 18 th	Gabriola Farmer's Market	Area B
July 1 st	Canada Day Celebrations	Nanaimo
July 17 th	Qualicum Beach Day	Qualicum Beach
July 21 st	River's Edge Pop-up	Area G
July 26 th	Summer by the Sea Market	Parksville
August 6 th	Mine town Day	Lantzville
September 10 th	Errington Farmer's Market	Area F
September 11 th	Cedar Farmer's Market	Area A

- Since Water 2 Earth Month, Team WaterSmart has attended 9 in person events across the region
- August 1-31st- MacMillan Arts Centre ETHOS Display "The Tale of One Urban Creek" on Shelly Creek
- WaterSaver Contest- online and in-person ends Sept 27th





Irrigation Check-Ups

- May 2022- letters were sent out to the top 100 residential water users in each municipality and the RDN Water Service areas
- Over 40 residents expressed interest and were provided with an Irrigation information package
- June- August 2022- 11 Irrigation check ups completed
- 4 Nanoose Bay, 5 Parksville, 1 Nanaimo, 1 Lantzville
- **Comprehensive reports** delivered to homeowners including overview maps, flagged areas and areas for improvement.
- Feedback form will be sent to all participants to determine if improvements can be made for next year



Community Watershed Monitoring Stewardship Event

A thank-you event and lunch to celebrate CWMN volunteers & introduce potential new members to the program!



- Catered lunch, appreciation gifts, door prizes, and more!
- Event open to the public who are interested in learning more about volunteering
- Opportunity for CWMN groups to showcase their group to potential new recruits with a short presentation and/or table for materials
- Invitation to CWMN members coming soon
- Promotion through partner networks, RDN social media, Get Involved, and more







Community Watershed Moniotring Updates

- August Volunteer Training
 - 38 volunteers trained at five sessions
 - 2x French Creek, 2x Millstone, Gabriola
- 14 groups participating
 - new group Lantzville Streamkeepers
 - NCES & QLWSS sites not sampled
- 67 sites, 38 streams, and 24 watersheds
- Summer sampling complete
 - Aug. 16 Sept. 13
- Fall flush start TBD, Oct. 4 tentative
- Hach equipment delays





Project aims:

- Provides a regional-level status summary to guide field work
- Strategizes and prioritizes efforts for conservation, monitoring, and rehabilitation
- Highlights where to allocate funding for restoration and enhancement projects

Links to DWWP/RDN program inititaves:

- Community Watershed Monitoring Network
- Stewardship Seed Funding Allocation
- · Regional Strategy for Rainwater Management
- Ecological Accounting Process
- Municipal Natural Assets Inventory



Project Overview

- 47 streams analyzed
- Compiles existing data from publicly-available sources
- Quantifies current vegetation extents and considers vegetation types and diversity, ages of stands, canopy closure, soil classes, and disturbance
- Presents a criteria for health, showing where there is potential deficit
- Identifies priority areas for restoration, enhancement, or monitoring
- Presented in both a report and as an interactive, publically available map



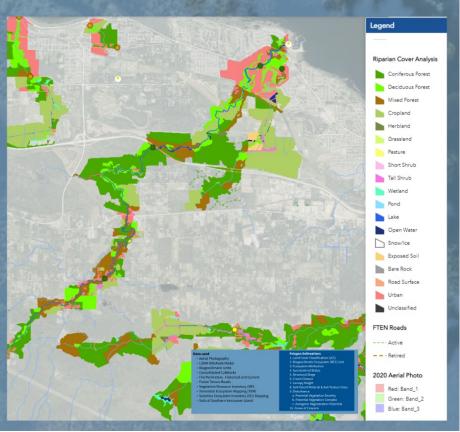
Riparian Cover Analysis

Individual map polygons were primarily defined using land cover classification (LCC)

Delineation of riparian cover used the **variable width approach** and were contingent on ecological attributes, structure, stand composition, and other imagery-observable characteristics

Areas were mapped at a scale of **1:5000**. Scale varied if areas of noticeable disturbance or unique attributes were observed

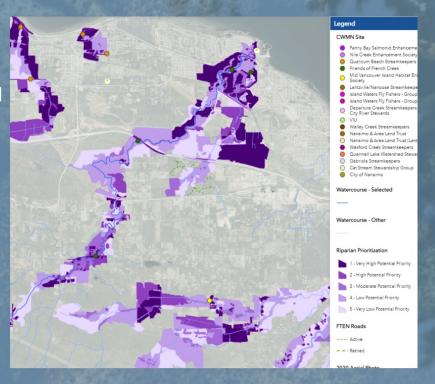
A total of 5,409 polygons were mapped, the most frequently mapped LCC was Coniferous Forest (2,083 polygons) and the second was Urban (695 polygons)





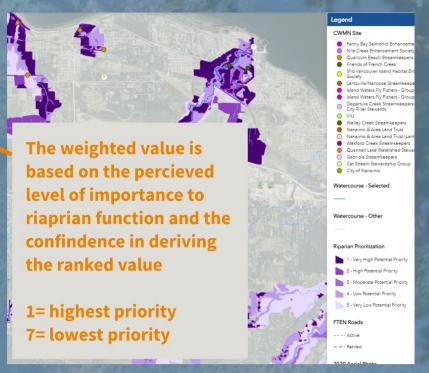
Restoration Prioritization

- 1. Disturbance
- 2. Zones of Concern
- 3. Vegetation Cover
- 4. Terrestrial Habitat Cover and Continuity
- 5. Vegetation Complexity and Structural Diversity
- 6. Soil Parent Materials and Texture
- 7. Water Quality
- 8. Climate



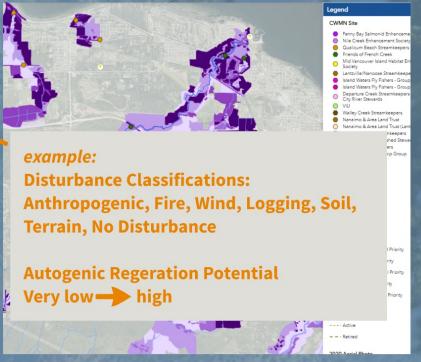
Restoration Prioritization

- 1. Disturbance (1)
- 2. Zones of Concern (1)
- 3. Vegetation Cover (2)
- 4. Terrestrial Habitat Cover and Continuity (3)
- 5. Vegetation Complexity and Structural Diversity (4)
- 6. Soil Parent Materials and Texture (5)
- 7. Water Quality (6)
- 8. Climate (7)



Restoration Prioritization

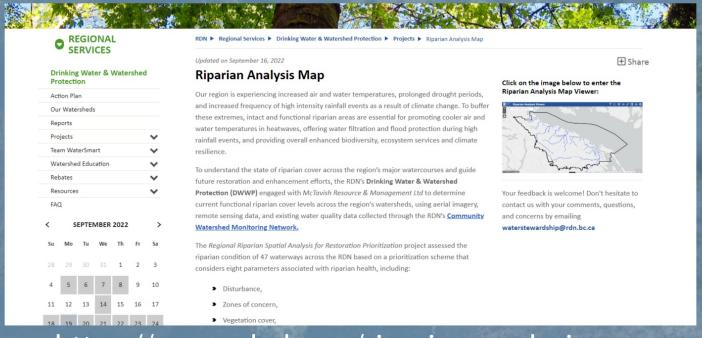
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- 8. Climate





https://www.rdn.bc.ca/riparian-analysis-map

Project Limitations

- Watercourse and Site-Specific Ground Truthing
- Aerial Imagery
- Property Ownership
- Climate Change
- Restoration Prescriptions



Next steps

- Present to RDN Planning and RDN Parks
- Minor updates with consultants for usability
- "How-to" video tutorial on webpage
- User feedback session / updates to map layers based on user feedback
- Map maintenace such as aerial imagery update/change detection analysis

Optional - for discussion/scoping:
Groud-truthing high priority areas (calibrating analysis based on results)
Climate resilient restoration prescriptions
LiDAR expansion







Thank you!

See you at our next meeting: December 8, 2022



