











Vision: Bowker Creek Watershed plan



"The varied human uses and natural areas in the Bowker watershed are managed to minimize runoff and pollution, making Bowker Creek a healthy stream that supports habitat for native vegetation and wildlife, and to provide a community greenway that connects neighbourhoods"





URBAN WATERSHED

- Friends of Bowker Creek Society
- o Camosun CA
- Quadra-Cedar Hill CA
- o North Jubilee CA
- o Oak Bay CA

- Steering Committee member
- Members of the public











- Articulate a 100 year vision for Bowker Creek
- Recommend watershed management policy, planning and other stewardship actions
- Recommend sitespecific actions for each creek section
- Provide support and information to municipalities and other land stewards

Watershed Management Actions - Summary

1. Creek friendly practices wherever possible

- Low impact development approaches to manage rainwater runoff
- Consider daylighting during redevelopment or with infrastructure upgrades
- Ensure opportunities for greenways and creek restoration are considered when land is for sale or being redeveloped
- Use municipal land to demonstrate watershed friendly approaches (native plants, raingardens, creek restoration, tree planting, no pesticides)

Low Impact Development

• Benefits:

- Reduce inflow and infiltration (I&I)
- o Reduce flooding and erosion
- Potentially negate need for new pipe infrastructure
- o Improve water quality
- Practice:
- Rain gardens for detention/infiltration
- Green streets (narrow, rain gardens, swales)
- Permeable paving
- Rainwater capture/retention
- o Green roofs



Rainwater/stormwater management feature	Appropriate land use						
	Institutional	Urban	Residential	Park/open space	Mall	Boulevard	Road
Downspout disconnect	x	x	x				
Harvesting and using roof runoff	x	x	x				
Raingardens	x	x	x	x	x	x	x
Infiltration basins / tree wells	x	x			x	x	
Detention ponds	x	x		x		x	
Pervious pavement	x	х	x	x	х	x	х
Constructed wetlands	x	x		x	x	x	
Floodwater storage areas	x	x		x	x	x	
Green roofs	x	x	x		x		
Wide riparian buffer zones for filtration and flood storage	x	x	x	x	x	x	x
Maintenance and restoration of natural channels with floodplains	x	x	x	x	x	x	x
Plant and maintain trees	x	x	x	x	x	x	
Prevent soil compaction	x	х	x	x	х	x	
Uncompacted topsoil (30cm+) for lawns	x	x	x	x	x	x	
Swales instead of curb and gutters						x	
Street sweeping							x
Minimize road width							х













Reach Specific Actions

- Small to large efforts, varying time frames
- Operational activities and opportunistic projects
- Short term actions include invasive species removal and riparian restoration
- Opportunistic / long term actions include:
- Channel widening/increased floodplain, bank re-sloping and/or channel re-alignment
- Creek daylighting
- Greenway along creek corridor











Top 10 Actions for Short Term

- 1. Revise municipal plans to include Bowker Creek goals and actions so we won't miss opportunities
- 2. Adopt effective impervious area requirements for new development
- 3. Remove specific invasive species that are not yet well established
- 4. Pilot project for locating and building a rain garden in each municipality
- 5. Urban Forest strategy in Oak Bay to complement those in Saanich & Victoria

Top 10 Actions for Short Term

- 6. Develop strategies to acquire key properties as they come available
- 7. Work with Oak Bay High School and Oak Bay Municipality to design and implement creek restoration at school and rec centre
- 10. Participate in Shelbourne Corridor Action Plan
- 11. Work with creek-side landowners between Trent and Pearl Streets to achieve the long term vision
- 12. Continue with restoration at Browning Park





Currents of Success

- Coordinator
- Staying on track and keeping focus
- Successful outreach efforts
- Engaging community
- Engagement of politicians



Hired a coordinator

- Cost for part time position cost shared by 3 municipalities – based on watershed area
- o Saanich 59%
- o Victoria 23%
- o Oak Bay 18%
- Position is established and held at CRD





Stay focused on the big picture

- Management plan to guide us
- Four simple goals
- How does this help us achieve goals and vision?

















- Watershed forum and Open Houses
- Steering committee
- Working subcommittees











Engaging Institutions

- Royal Jubilee Hospital
- Hillside Mall
- Richmond School
- BC Hydro
- UVic
- Camosun College











Letting go of ISMP template

- Not enough funding to complete study
- Too strategic needed specific details
- Engineering centric
- Collective knowledge of committee, previous studies and reports
- External facilitator to help pull everything together





Reconnecting with Vision

- Got stuck in the details
- Heels dug in
- External Facilitator
- Does everyone still believe in this vision?
- What is working/not working?
- Frank discussions about where people were getting frustrated









