

District of Sooke – Regional Innovative Rainwater Management Examples

Eco-Sense Home – Compton Road

Type of Project: **Residential – Single Family**

RAINWATER MANAGEMENT TECHNIQUES USED:

- | | | |
|---|--|---|
| <input type="checkbox"/> permeable surfaces | <input checked="" type="checkbox"/> greenroofs | <input checked="" type="checkbox"/> reduced footprint |
| <input type="checkbox"/> bioswales | <input type="checkbox"/> roof storage | <input checked="" type="checkbox"/> underground storage |
| <input type="checkbox"/> raingardens | <input checked="" type="checkbox"/> rainwater harvesting, reuse | <input checked="" type="checkbox"/> naturescaping or restoration |

Municipality: The Highlands
Public Access: Only by prior arrangement via www.eco-sense.ca
Size: 200 m², 2 storey house designed for 6 residents
Type: New
Ownership: Private
Completed: Winter 2008



Rainwater Management Techniques Used:

Greenroof: Two greenroofs
Underground Storage: A concrete tank takes overflow from the main collection system and stores for irrigation use.
Rainwater Harvesting/Reuse: Roof water goes into through a 500 gal sand filter, into 4,000 gal storage tanks, then through a 5 micron filter and UV sterilizer, then into a pressurized system.
Naturescaping or Restoration: Native plants used on roofs to compensate for long term loss of habitat
Location on Site: One greenroof on workshop building, one on house
Impervious Area Managed: Workshop roof = 5 m²; house = 154 m²
Design Storm Used: System is expected to meet all household water needs
Other Notes: Minimum footprint on previously disturbed portion of site. Canada's first known municipally-permitted, load-bearing cob walled house. Project includes BCHydro grid intertie, hydronic in-floor heating, PV solar power, and an option for wind power and greywater reuse.
Cost: Will be available in future on website.
Funding: Many private individuals helped the owners build the home & workshop via workshops, labour and donations.
Awards: -

Project Team:

Greenroof Installation - Victoria Natural History Society's Native Plant Study Group assisted with planting of the workshop greenroof.
Structural Engineer - Kris Dick, Structural Alternatives, Manitoba, 204-886-3521
Building Design - By owners, with assistance from Elke Cole, Cobworks, www.elkecole.com/
Project Contact - Gord and Ann Baird, www.eco-sense.ca

