

District of Sooke – Regional Innovative Rainwater Management Examples

L'Ecole Victor Brodeur – 637 Head Street

Type of Project: **Institutional – School**

RAINWATER MANAGEMENT TECHNIQUES USED:

permeable surfaces

greenroofs

reduced footprint

bioswales

roof storage

underground storage

raingardens

rainwater harvesting, reuse

naturescaping or restoration

Municipality: Town of Esquimalt
Public Access: With permission from office during school hours. Visible from the public sidewalk.
Size: 3 storey, 7,000 m², combined day care and K-12 public school
Type: New
Ownership: Public – School District 63
Completed: Spring 2007



Rainwater Management Techniques Used:

Raingardens: Small raingarden in vehicle drop off area at north end of site.

Bioswales: Hard surfaces are drained to a bioswale for treatment and infiltration.

Permeable Pavement: Permeable asphalt over parking slots at both ends of the site has been used to increase the amount of rainwater that can enter the groundwater system through natural subsurface discharge and disposal.

Underground Storage: Excess flows from bioswale, and flows from impervious asphalt, are directed to retention area and a French drain network (filter cloth/drain rock/perforated pipe system) installed below the permeable asphalt. This acts as a short term storm water storage area for major storm events. The French drains collect excess water and direct it to the underground pipe network. Flows to the municipal storm system are controlled via a manhole outlet.

Reduced Footprint: Indoor and outdoor space needs were shared through a special agreement between the School District and Esquimalt Parks and Recreation Department with both institutions using each other's facilities.

Location on Site: As above

Impervious Area Managed: Data not available

Design Storm Used: Data not available

Other Notes: LEEDtm certification is being sought. Project features low flush toilets, waterless urinals, and many energy saving features.

Cost: \$19M total project

Funding: Province of BC (\$16M), Government of Canada (\$3M), Town of Esquimalt funded the basketball courts and multi-use field

Awards: -

Project Team

Landscape Architect - Viewpoint Landscape Architects Inc., Vancouver, (604) 669-3201

Civil Engineer - Bullock Baur Associates Ltd., 386-2521, www.bullockbaur.ca

Architect - Marceau Evans Johnson Architects, Vancouver, (604) 683-0111, www.marceau-evans.com/

LEEDtm Manager - Thornley BKG Consultants Inc., 414-6465, www.thornleybkg.com

