

# sustainability tour



Photos (L-r): Craig Boyko, Craig Boyko, Bill Deneau, Michelle Scrivener, Craig Boyko.

## A. Centre for Green Cities

Designed to minimize energy and resource use, the building's outer shell has high levels of insulation, shading devices and high-performance windows, purposely placed to enhance comfort and energy performance. Movable screens on tracks on the outside of the building and interior solar blinds on all windows reduce cooling needs in summer months. We anticipate that these conservation measures will reduce energy consumption by over 50 percent and contribute to the Centre achieving LEED® Platinum Certification.

### Other sustainable design features of the Centre for Green Cities:

- Green roof lowers building temperatures, provides habitat and reduces run-off
- Solar chimneys draw hot air out of the building to reduce dependence on air conditioning
- Digital lighting control system with daylight and occupancy sensors reduces unnecessary lighting
- Three natural gas-fired, high-efficiency boilers use heat recovery technology to reduce the energy needed to condition ventilation air

## B. Rainwater Harvesting Cisterns

Rainwater coming off rooftops is stored in fifteen 20,000-litre cisterns for reuse in gardening and toilets. This, combined with water-conserving toilets and faucets and waterless urinals, reduces water use by more than 60 percent.

## C. Ice Rink Heat Recovery

ECO CHILL® refrigeration system reuses energy from ice-making. The heat that the system removes from the ice surface will keep Café Belong warm.

## D. Stormwater Management Pond

This pond allows sediment in run-off to settle before water is released to the Don River.

## E. Greenways

Vegetated greenways, carved through the site, help to move run-off to the stormwater management pond (D). In doing so, they cleanse water before it flows to the Don River.

## F. Pervious Parking Surface

Pervious concrete lets water infiltrate to maintain a natural water cycle, recharging groundwater and reducing stormwater run-off.

## Lighting

Exterior fixtures are equipped with cut-offs and reflectors so that no light is directed upward or across the property line. This helps to keep the sky naturally dark for birds, bats, insects and other living things. LED parking lot lights reduce energy use by 85 percent.

## Green Energy

The electricity used on site comes from two sources: Bullfrog Power renewable energy and biogas. Bullfrog Power's generator injects renewable electricity onto the regional grid to match the amount of energy used by Evergreen Brick Works. Bullfrog's electricity comes exclusively from local wind and hydro facilities. The biogas is generated from methane gas generated from a landfill in Quebec.

**Stay tuned for the Green Design Exhibit coming this August.**

**Evergreen Brick Works** is a community environmental centre that inspires and equips visitors to live, work and play more sustainably. Get involved or donate today.

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# EVERGREEN BRICK WORKS

Weston Family Quarry Garden  
and The North Slope



**A-F** Self-guided Tour

Signs illuminating site features