

# The Prudhommes Project Year-in-Review 2021

## Partnership Overview

Building resilience into sustainable community development, at the landmark Prudhomme's development site, is the aim of this five-year partnership involving the Town of Lincoln, Vineland Research and Innovation Centre (Vineland), and the Environmental Sustainability Research Centre (ESRC). Knowledge generated and lessons learned will be transferable, providing evidence-based decisions, catalyzing opportunities for innovation, and influencing uptake of best practices.

The partnership officially launched in July 2020 and since then has focused on:

- develop a program, which draws upon state-of-the-art resilience and ecosystem-based approach to greening landscapes;
- engage graduate and undergraduate students through experiential education, course projects, and research;
- explore and pursue mutually beneficial opportunities of shared interest in resilience and social-ecological systems such as grant proposals and events and,
- promote the program within the Town of Lincoln, Vineland Research and Innovation Centre, and the Brock University community, and develop informal networks locally, nationally, and internationally.

## Research Activities

### Needs Assessment Update

Vineland and Brock conducted a Needs Assessment with the Town of Lincoln centred around five themes: 1) operations, 2) green standards, 3) green-blue design, 4) urban forestry practices; and, 5) incentivizing green-blue development at the Town of Lincoln. The team prepared a recommendation report, which outlines the challenges, opportunities, actionable items for the consideration by the Town of Lincoln. Based on the needs identified, the project team plans to focus on the creation of evidence-based approach for natural infrastructure design. Key outputs will include the 1) development of green guidelines, standards, and specifications as well as 2) training on implementation, maintenance, operational inspections using initial evaluation of natural infrastructure in new developments.

### Partnership Outputs in 2021

- A needs assessment with the Town of Lincoln
- Soil sampling at Prudhommes and Ashby Park
- Creation of maps detailing Low Impact Development (LID) capacity of Prudhommes site
- Creation experimental design for LID experiments
- Creation of LID resource database



Darby McGrath  
@McGrathGreen

[#ilovemyjob](#) [#FridayFeeling](#) The start of a new trial is such an exciting feeling - not sure about others but I always have 🦋 in my stomach because it signifies hope & new knowledge. Stay Tuned [@TownofLincolnON](#) for your [#lowimpactdevelopment](#) [#trees](#) [#soils](#) [#livinglab](#) park!



Janani Sivarajah, PhD @JananiSivarajah · Sep 24

On site today with our @TownofLincolnON partners to discuss our experimental urban soil trials for #lowimpactdevelopment. @McGrathGreen @RyanMunroe15 @BrockUESRC @vinelandrsrch #livinglab #greeninfrastructure



11:53 AM · Sep 24, 2021 · Twitter for iPhone

# Master of Sustainability Research

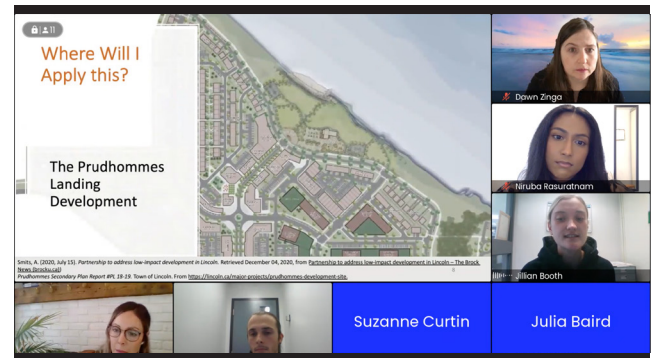
## Master of Sustainability Thesis Research

"A Holistic Approach to Mapping Priority Sites for Low-Impact Development"

*Jillian Booth, Master of Sustainability Candidate*

Master of Sustainability student Jillian Booth has been conducting her MRP research in the Prudhommes Landing Development. Her research will focus on gaps in Low Impact Development (LID) implementation and employing a holistic approach to map priority sites of LID. This will be achieved by using a geospatial, physically-based framework with a multi-criteria decision-making model to show that the consideration of social benefits when identifying sites for LID can align options for improving infrastructure with the multiple social objectives of city planning.

Jillian was awarded with the Faculty of Social Science Student Research Award at Brock in the fall. This award recognizes student research that contributes to, and advances research and scholarship in, the Social Sciences. In early December, Jillian presented her research (see photo to right) at the virtual Social Science Research Colloquium at Brock.



## Experiential Education Opportunities for Brock Students

### Request for Proposals in SSAS 5P03

In the Problem Solving and the Environment (SSAS 5P03) course in the Master of Sustainability program, students are required to collaboratively understand and resolve a 'real life' sustainability dilemma or opportunity. In 2021, Greening the Landscape program at Vineland served as the client for the course and set out a request for proposals for Enhancing Community Sustainability Through Low Impact Development (LID). Among the deliverables for this project were reports that addressed key motivators for LID, how governments can encourage LID, successful implementation of LID, global perspectives on LID policy and benefits, and an interactive map to communicate information gained throughout the project.



Scan this QR code below to view the interactive map created by the students in SSAS 5P03.



## Knowledge Mobilization Activities

### Sustainability Seminar Series

In November 2021, members from the ESRC provided a presentation entitled "Community Partnerships for Sustainability at Brock University" through the Sustainability Seminar Series. The presentation focused on partnership impacts and how to go about measuring the performance of partnerships and included a focus on the Prudhommes Project.

