

# Well-Being and Your Watershed User Manual

Last updated August 17, 2016

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## 1. Introduction

This web application “Well-being and Your Watershed” was created for the Credit Valley Conservation Authority. It's main goal is to get watershed residents to familiarize themselves with their watershed, recognize the important benefits that natural ecosystems provide, encourage interaction with those natural ecosystems, and share personal stories of those interactions. The primary tool to do this is an interactive web map that allows users to show/hide spatial information (e.g., trails, parks, treed areas, etc.) about the watershed and add pictures/stories to the map for others to see.

## 2. Ecosystem Services and Domains of Health and Well-being

The website is designed around the [Millennium Ecosystem Assessment report](#) framework that identifies connections between [five domains of human health and well-being](#) (Basic Materials for a Good Life, Health, Good Social Relations, Security, and Freedom of Choice and Action) and [four ecosystem services](#) (Provisioning, Regulating, Cultural, and Supporting). In short, the report identifies the importance of natural ecosystems for human health and well-being.

In order to visually represent these connections on a map of the Credit River Watershed, a number of datasets were linked with indicators that then link back to at least one of the five domains of health and

at least one ecosystem service. For example, “Secure Access to Good Quality Water” is linked to both the “Provisioning” ecosystem service and the “Basic Materials for a Good Life” domain. On the map the layers that are associated with this indicator are “Water Courses”, “Water Bodies”, “Credit River Subwatersheds”, and “Credit River Watershed”.

See the next section for more information on using the interactive map.

## 3. Using the Interactive Map

### 3.1 Getting to the Interactive Map

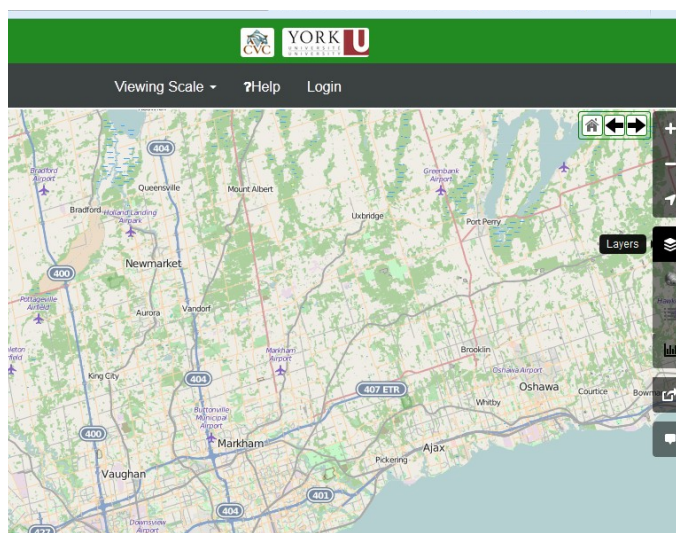
Navigate to <http://cvc.juturna.ca/en/map> or from the home page ([cvc.juturna.ca](http://cvc.juturna.ca)) select “Web Map”.

### 3.2 Exploring Indicators

In the menu at the top of the map screen are the buttons “Well-Being” and “Ecosystem Services”. When hovered over these buttons expand to a list of the five well-being domains and the four ecosystem services, respectively. Each of the well-being domains and ecosystem services will then further expand (when hovered over) to a list of associated indicators which can then be clicked on to generate detailed information in the left sidebar as well as a selection of map layers that were considered relevant for that indicator.

### 3.3 Turning Layers On and Off

Layers can also be turned off and on manually. On the right side panel of the interactive map, select between different “base layers” (e.g., “Open Street Map”, “Google Satellite”, etc.) or select/deselect various layers from the lower list. If the right side panel is not visible select the “Layers” button at the right side of the screen, as shown below.



*Illustration 1: Opening the "Layers" side panel*

The layers are divided into three categories: Ecological, Census Data, and Social. The layers in the

“Ecological” category hold layers with features that would usually be considered “natural” (e.g., subwatershed boundaries, rivers, etc.). The layers in the “Census Data” category hold information from the report titled: *Socio-Demographic Profile, Credit River Watershed, 2008-2018*. This report uses information from the 2006 and 2011 census to project information into the year 2013<sup>1</sup>, which can then be displayed on a subwatershed basis. The layers in the “Social” category hold information that have a particular human component (e.g., parks, playgrounds, municipalities, etc.).

### 3.4 Changing the Zoom Level

Zooming in or out can be done by scrolling with the mouse, with the “plus” or “minus” buttons at the top of the right transparent sidebar, or by using the three preset zoom scales that are accessed from the “Viewing Scale” dropdown (located next to the “?Help” and “Login” buttons at the right of the top menu bar). The preset zooms can be matched to a user-selected map centre (see section below).

### 3.5 Registering As a User

While many features of the interactive map can be accessed without an account, if you want to share a story, change the preset zoom levels, or change the map centre, you will have to register and log-in.

- Step 1. Select the “Login” button at the top right of the screen.
- Step 2. If you already are registered then proceed to type in your user-name and password. If not, click the “Register” button.
- Step 3. Fill in the form with a user-name of your choosing, your email, and a password.
- Step 4. Feel free to “Update” your profile with your name, date of birth, etc. This information will not be used for any purpose other than site user statistics.

### 3.6 Adding a Story

Users are encouraged to share images and experiences of the watershed on the map. You must be logged in to access this feature, as described above.

Refer to the file on the web server that goes over this process in detail:

[http://cvctest.juturna.ca/uploads/stories/Guidelines\\_to\\_writing\\_your\\_story.pdf](http://cvctest.juturna.ca/uploads/stories/Guidelines_to_writing_your_story.pdf)

### 3.7 Changing the Preset Zoom Levels and Centring the Map

The preset zoom levels (accessed under the “Viewing Scale” button at the top right of the screen) are initially set at a neighbourhood (1:4,000), subwatershed (1:35,000), and watershed (1:250,000) level. However these can be customized. The map centre point is customized at the same time (e.g., it can be set to centre around a user's home address). You must be logged in to access this feature, as described above.

First, hover over the menu item labelled “Viewing Scale” in the top right corner of the screen.

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<sup>1</sup>The report also has information for the year 2008 and 2018 but the data used on the map is year 2013.

Second, select “Set Map Centre” from the dropdown.