

GREENLAND® GROUP of Companies

“Value-Added Engineering and Technology Services”

Internet Decision Support System Platforms

- **THREATS™ (Cumulative Effects Watershed Monitoring)**
- **CANadian Watershed Evaluation Tool (CANWET™)**
- **ISWMS™ International Flood Forecasting Joint Venture**

Updated: April 2017



GREENLAND® Group - Mission Statement

The **GREENLAND® Group** provides civil and environmental engineering services, as well as urban design planning expertise.

We also strive to offer excellence in 'niche' disciplines by **developing environmental software systems and water technology products**, while maintaining our unique corporate brand with the Public, Indigenous Peoples, Business Community, our Clients and Employees.

Since 1994, the GREENLAND® Group has also been committed to developing **innovative solutions** with a **conservationist ethic** that respects the **environment** from the outset and **incorporates best available science, open data, and defensible technologies to address climate change concerns (and opportunities)**.



For more information visit,
www.grnland.com

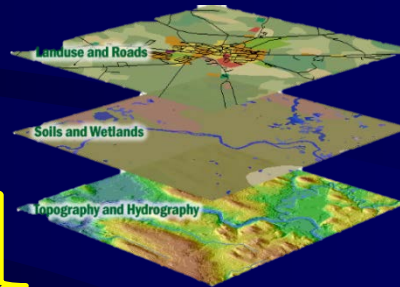
Internet Decision Support System Platforms (with International Partners)



1980-90's
*'Tandy, IBM-XT &
AST Computers and
Dot Matrix Age'*



**Integrated GIS and
Geo-processing that
incorporates best-
available science**



Since 2000

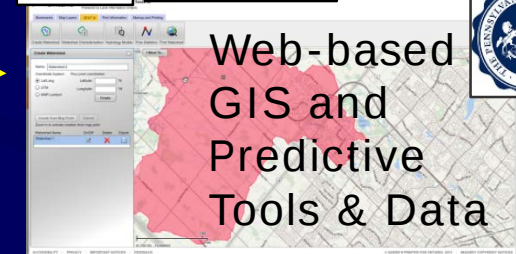
*'Information
Technology' Age*

Since 2013

*'Intelligence
Information' Age*



**Cloud
Computing
& Storage**



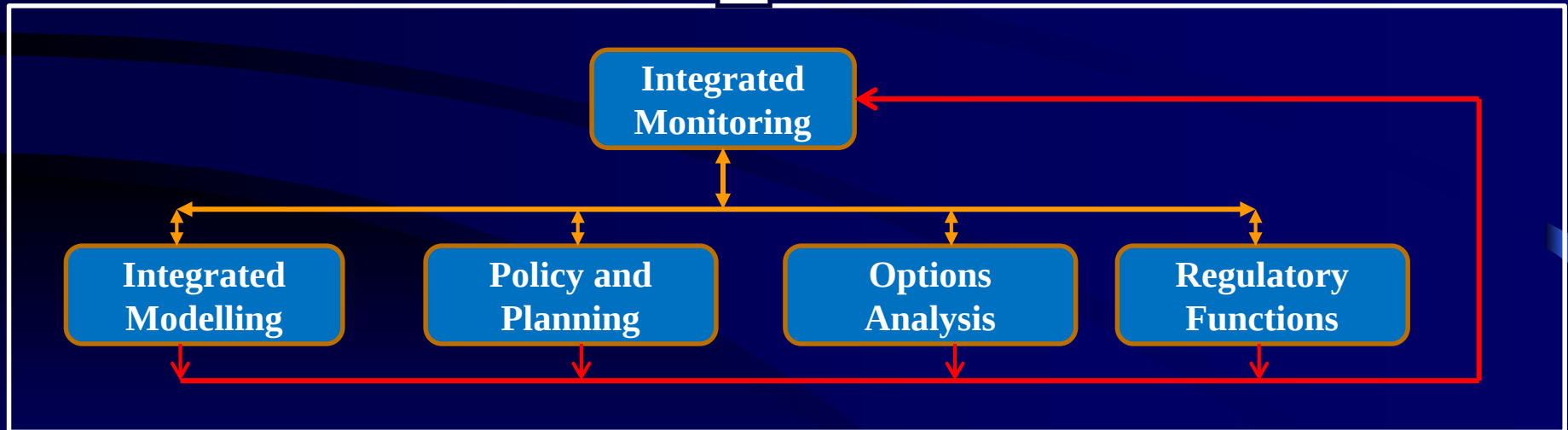
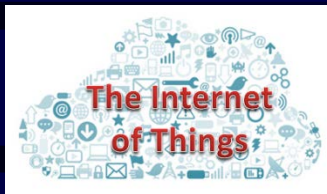
**Web-based
GIS and
Predictive
Tools & Data**

**Mobile Devices
and Sharing**



COMMUNITECH

Five (5) Components of Cumulative Effects Management for Canadian Watersheds



MANY Questions to be Answered

- What development (land, resource, etc.) has occurred? (stress)
- What environmental changes have occurred? (response)
- Do the changes exceed a sector trigger?
- Do the changes exceed a “watershed” or “regional” plan threshold (target)?
- Are the changes trending towards a trigger?
- Are the environmental changes caused by a sector, industry, etc.?

Integrated Monitoring

Regulatory Functions

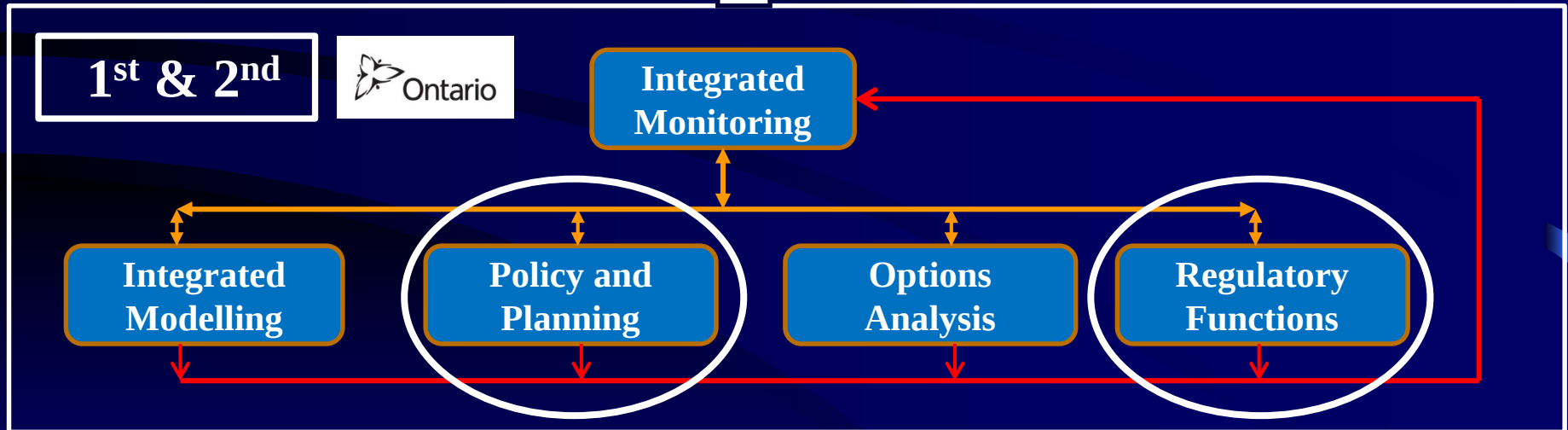
Options Analysis

Policy & Planning

Integrated Modelling

- What exists on the land? How close are we to limits? Will this project application put us over?
- Can we fast-track a development and illustrate no harm?
- Are there areas where the subject development can be accelerated “IF” the environmental risk is low and the environment is stable?
- What are the environmental changes that have occurred? Are regulations protective?
- Given the resource distribution, probability and economics of the subject development, and existing state of the environment, what is the predicted environmental response to the development?
- Is there an alternate scenario?
- Will the predicted state result in exceedances of a thresholds and will climate change be a factor?

Five (5) Components of Cumulative Effects Assessments for Canadian Watersheds (cont'd)





1ST SESSION, 41ST LEGISLATURE, ONTARIO
64 ELIZABETH II, 2015

Bill 66

*(Chapter 24
Statutes of Ontario, 2015)*

**An Act to protect and restore
the Great Lakes-St. Lawrence
River Basin**

The Hon. G. Murray
Minister of the Environment and Climate Change

1st Reading	February 18, 2015
2nd Reading	June 4, 2015
3rd Reading	October 7, 2015
Royal Assent	November 3, 2015

Printed by the Legislative Assembly
of Ontario

1^{re} SESSION, 41^e LÉGISLATURE, ONTARIO
64 ELIZABETH II, 2015

Projet de loi 66

*(Chapitre 24
Lois de l'Ontario de 2015)*

**Loi visant
la protection et le rétablissement
du bassin des Grands Lacs
et du fleuve Saint-Laurent**

L'honorable G. Murray
Ministre de l'Environnement et de l'Action
en matière de changement climatique

1 ^{re} lecture	18 février 2015
2 ^e lecture	4 juin 2015
3 ^e lecture	7 octobre 2015
Sanction royale	3 novembre 2015

Imprimé par l'Assemblée législative
de l'Ontario



Strengthening Great Lakes Protection

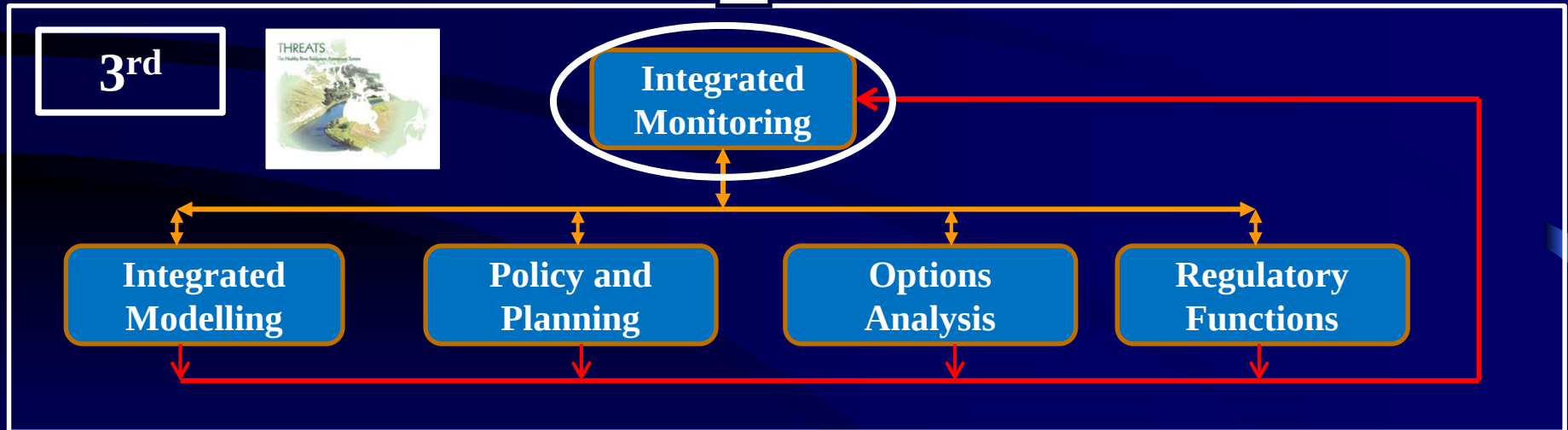


The Great Lakes and St. Lawrence River Basin legislation (Bill 66) enacted November 2015 by the Government of Ontario will:

- Ensure monitoring / reporting programs are established/maintained;
- Commit to establishing sub-watershed targets to reduce algae levels;
- Establish targets to prevent the loss of wetlands;
- Have regard for traditional - First Nations ecological knowledge;
- Require comprehensive progress reports every three (3) years;
- Require that Great Lakes Strategy be reviewed every six (6) years;
- Create opportunities for Ontarian citizens to become involved in the protection / restoration of the ecological health of the Great Lakes;
- Improve the capacity of the Great Lakes Basin to be resilient to the impacts of climate change; and,
- **Have regard for individual and cumulative impacts and stresses** and also support data sharing collaborations.



Five (5) Components of Cumulative Effects Assessments for Canadian Watersheds (cont'd)



The Healthy River Ecosystem Assessment System (aka THREATS™)



ASSESSING CUMULATIVE EFFECTS OF CANADIAN WATERS

DR. MONIQUE DUBÉ; CANADIAN RIVERS INSTITUTE, UNIVERSITY OF NEW BRUNSWICK



CANADIAN WATER NETWORK
RÉSEAU CANADIEN DE L'EAU



1st SESSION, 41st LEGISLATURE, ONTARIO
64 ELIZABETH II, 2015

Bill 66

(Chapter 24
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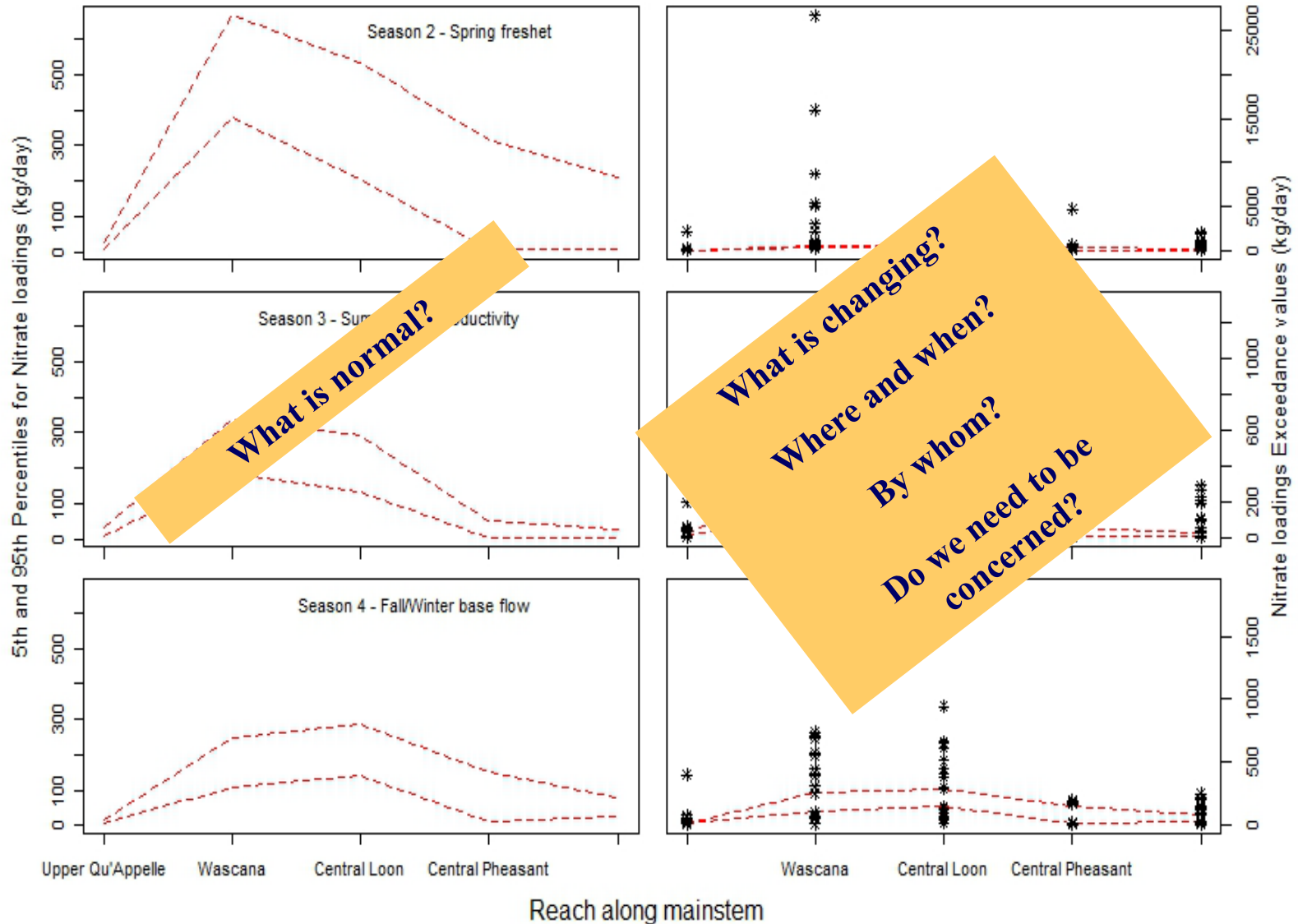
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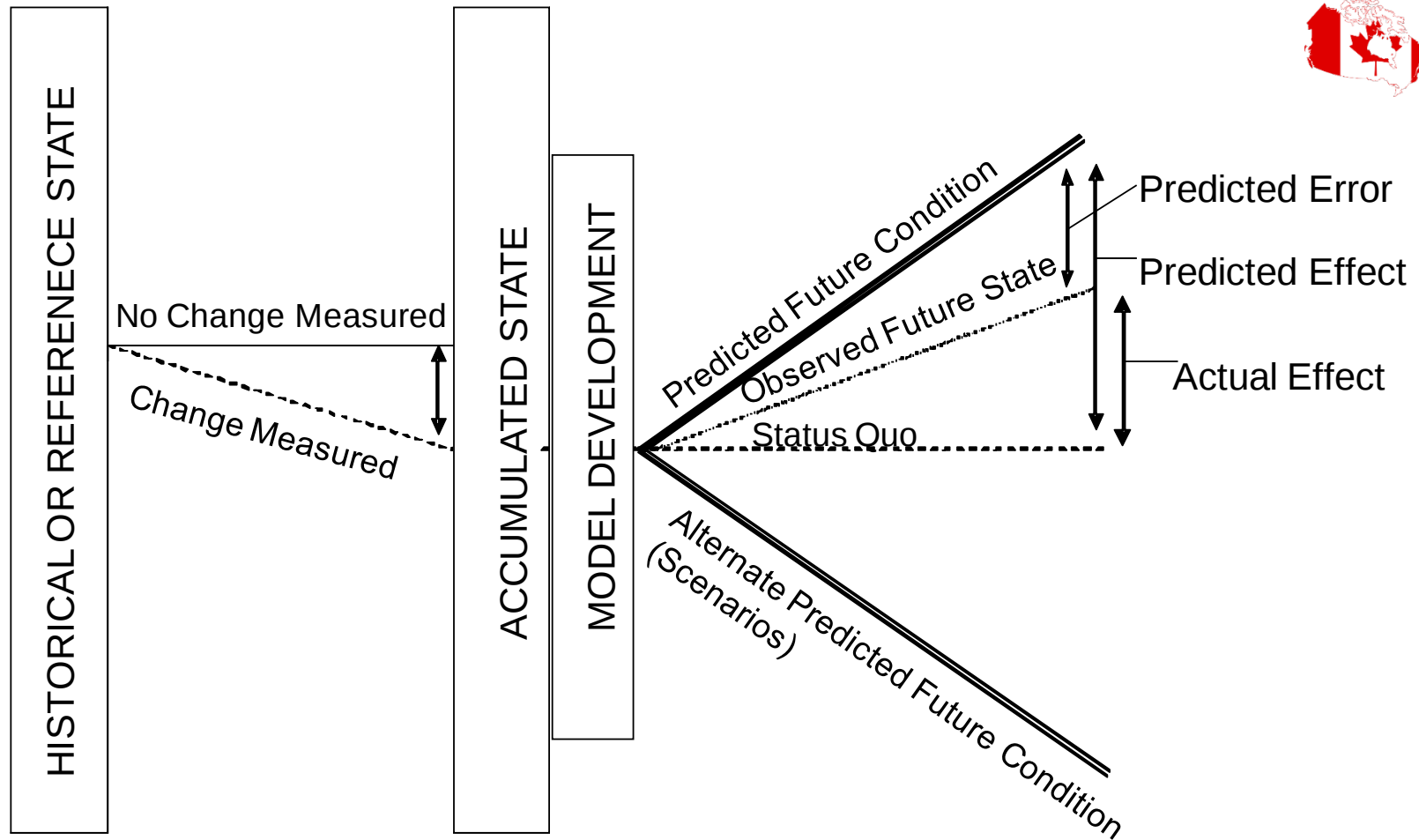
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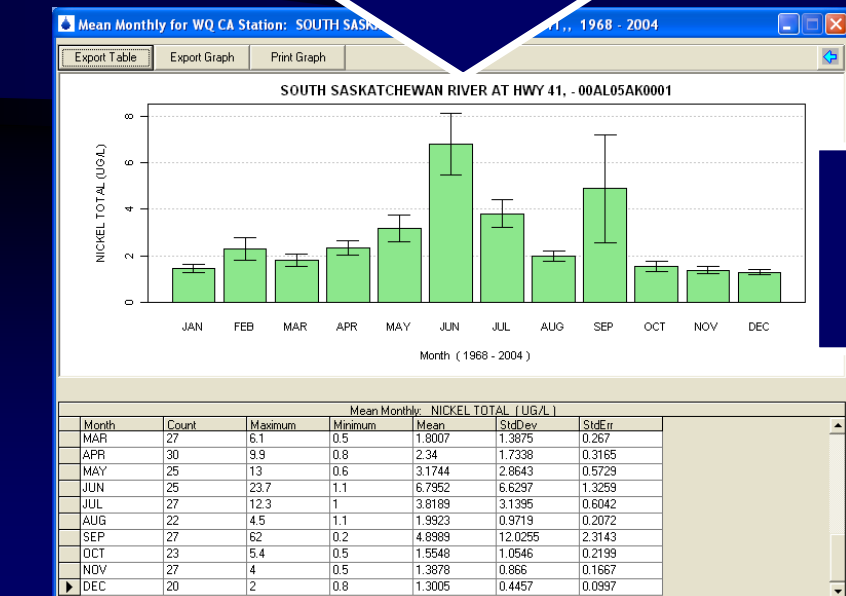
Imprimé par l'Assemblée législative
de l'Ontario

Key Outcomes of Monitoring



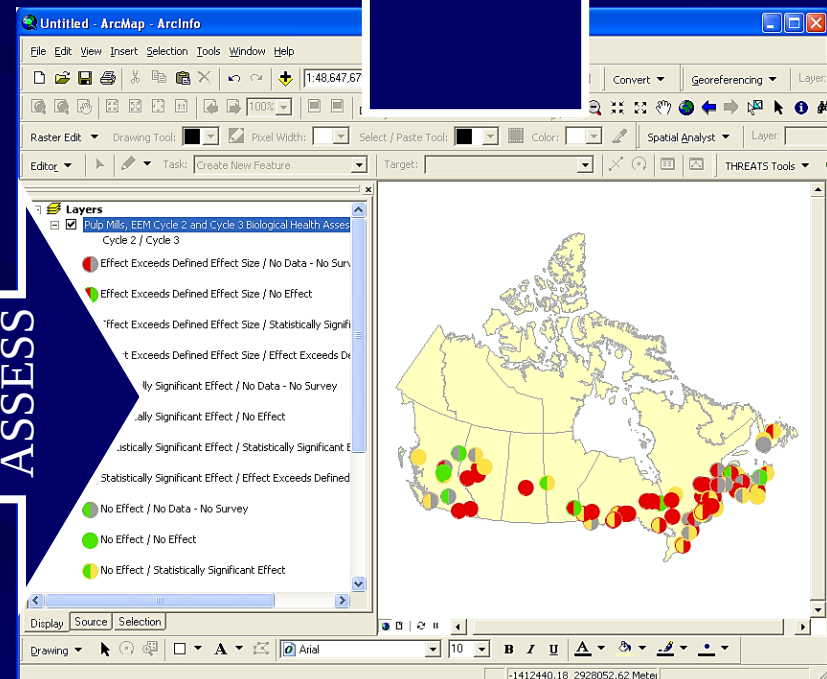
Real-time Monitoring + Science-based Modeling = Cumulative Effects Decision Support

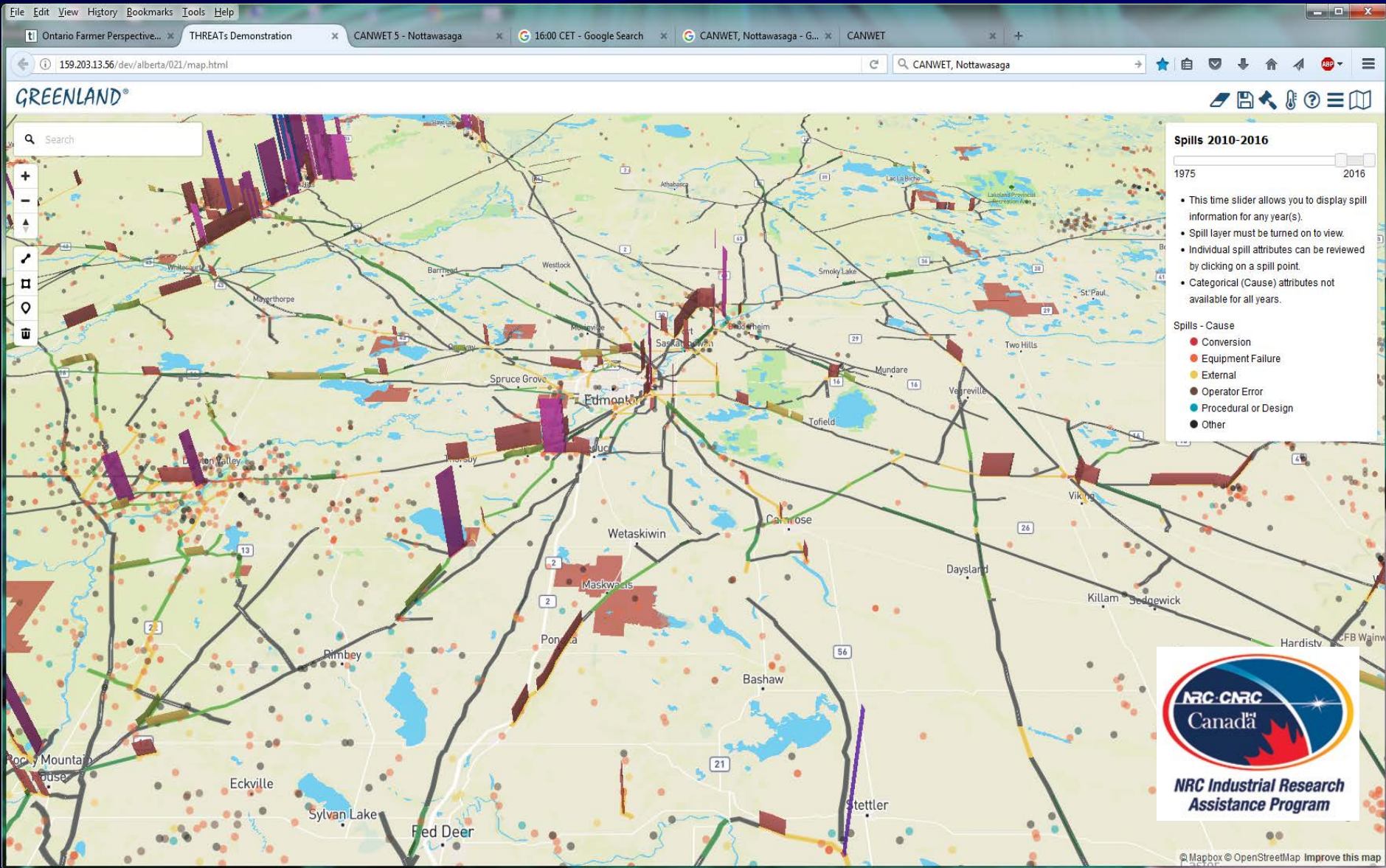




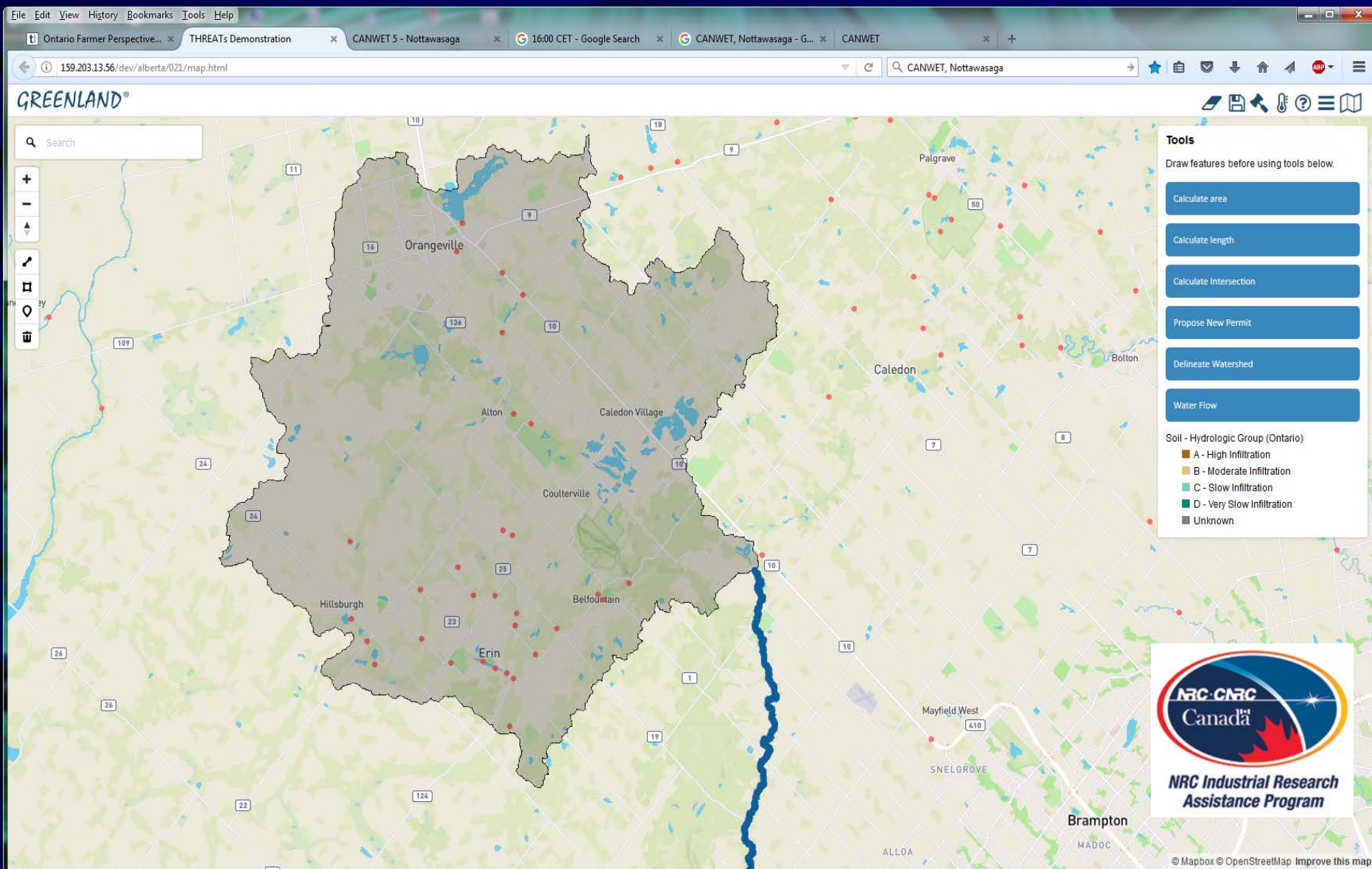
Station	Season	Exceedance	Trend	Action
1	W	No	No	No Action
1	W	Yes (L, M, H)	No	Explore
1	W	No	Yes (better/worse)	Explore
1	w	Yes (L, M, H)	Yes (better/worse)	Act

REACT



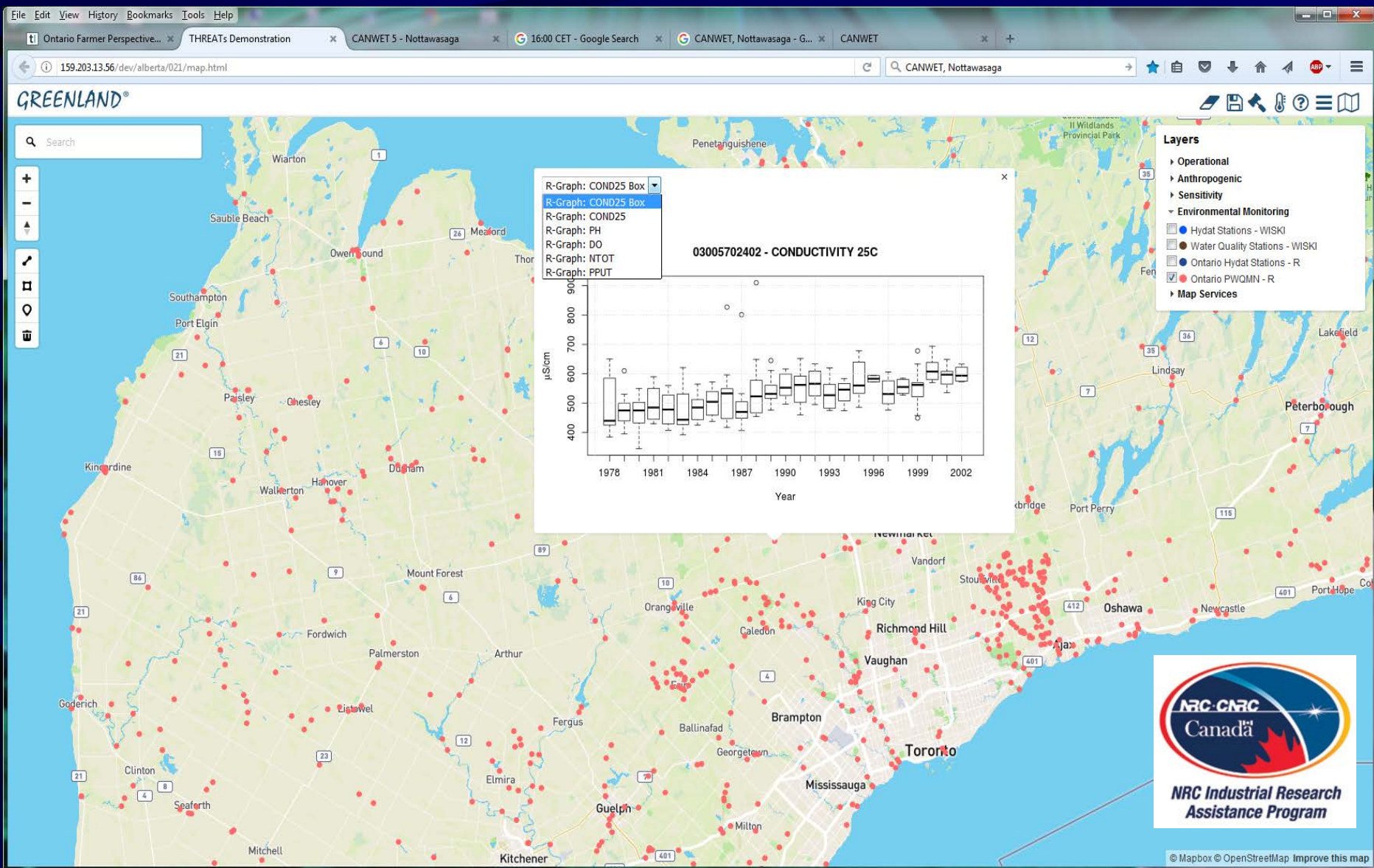


THREATS™ v.2 (On-going) – 3D pipeline (oil & gas) metric for Alberta with temporal spill query and regard for sensitive land features (e.g. wetlands, wildlife, fisheries, etc.) and First Nation Lands

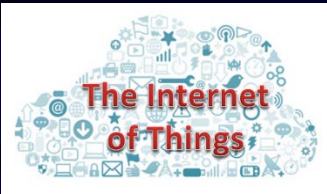


THREATS™ v.2 (On-going) – Ontario watershed delineation and flow tracing tools to assess impacts from “pipeline incidents” (or other chemical spills) upon drinking water intakes (incl. PPTW locations & river/lake intakes)

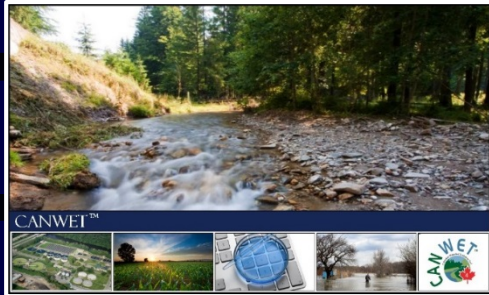




THREATS™ v.2 (On-going) – Canada-wide analysis of real-time Hydrometric Stations (climate/river flow) and Provincial water quality/benthic data



CANadian Watershed Evaluation Tool (aka CANWET™)

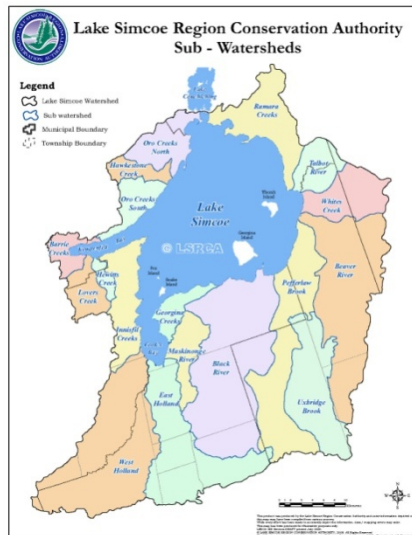
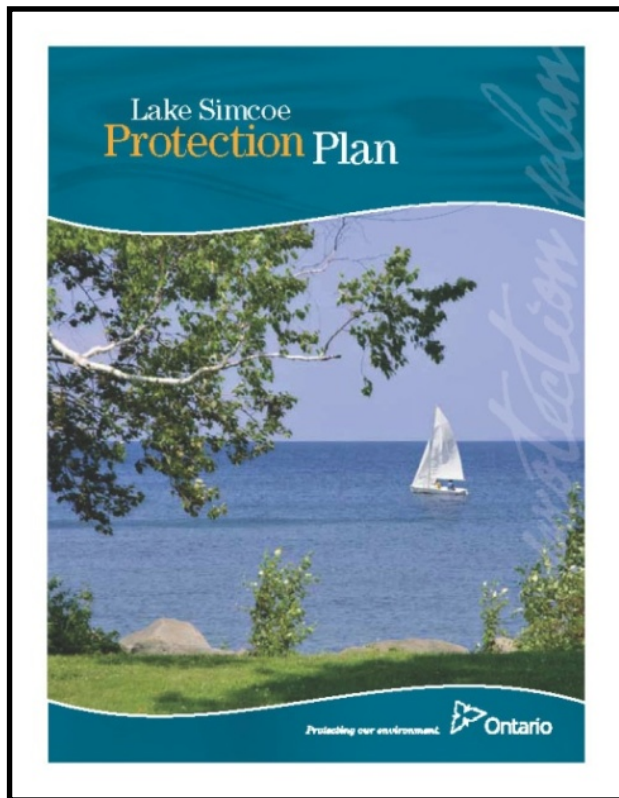


CANWET™ is an open source GIS and integrated water budget, nutrient and contaminant transport plus climate change impact decision support system. Since 2003, it has been used for **urban & rural** Assimilative Capacity Studies; Master Drainage Plans; TMDL and Other Nutrient Management Studies; Source Water Protection Studies; and, Municipal Infrastructure Planning, Design and Environmental Assessment Projects.



Since 2006, the “Best Available Practices (BMP)” analytical tool built into **CANWET™** (originally called PRedICT and part-of CANWET’s U.S. “cousin” called ‘**MapShed**’) has been updated and used in Canada to estimate the reduction in nutrient, pathogen and sediment loadings associated with a variety of basin practices and climate change factors. CANWET™ has been used to develop subwatershed target and phosphorus offsetting (trading) programs with Ontario’s water regulatory agencies and municipalities.

Version ‘5’ (Internet Prototype) completed March/17 for Government of Canada.



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Fax: 905-853-5881
E-Mail: info@lsrca.on.ca
Web: www.lsrca.on.ca

120 Bayview Parkway
Box 282
Newmarket, Ontario
L3Y 4X1



February 26, 2010

R. Mark Palmer, P.Eng.
President
Greenland Consulting Engineers
120 Hume Street
Collingwood, ON L9Y 1V5

Dear Mr. Palmer:

Re: CANWET™ Model and Application

Please accept this letter as the Lake Simcoe Region Conservation Authority's endorsement of the CANWET™ (v.3) model. The Conservation Authority is extremely satisfied with the model's performance and accuracy and supports the continued use of this product in our watershed and others.

CANWET™ was initially developed and tested to deal with nutrient loading issues within the Lake Simcoe basin. Since this time the model has become an invaluable tool in the development of growth plans, as was demonstrated in the Lake Simcoe and Nottawassaga River Assimilative Capacity studies to support the Inter Governmental Action Plan (IGAP) process within Simcoe County. The model has also been extensively used and tested as part of the Lake Simcoe Basin's Source Water Protection program to develop Tier 1 water budgets and, most recently, the development and implementation of the provincial Lake Simcoe Protection Plan (LSPP). The tool has allowed the Authority to develop water quality and quantity targets at a sub-catchment level and is being evaluated for use under a Phosphorus Trading program being considered by the Ministry of the Environment.

Please do not hesitate to contact me should you require any further information or assistance.

A

Sincerely,

Watershed

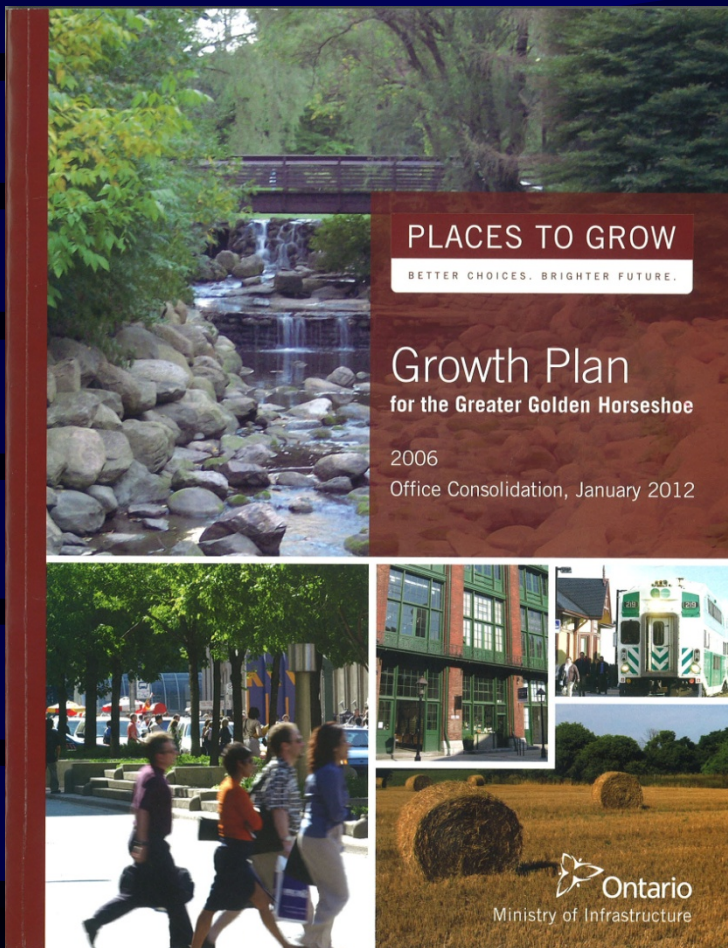
Michael Walters, CMM III
General Manager, Watershed Management

MW/lmc

For

Life

CANWET™ Used by the Ontario Government To Prepare the Award-winning 'Lake Simcoe Protection Plan'



January 19, 2012



Simcoe County Water & Wastewater Visioning Strategy

The Study

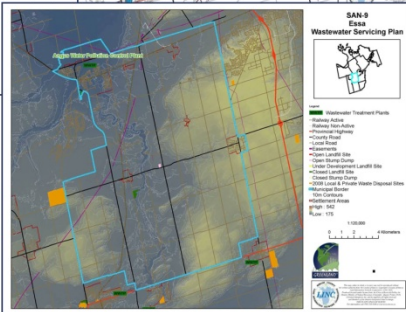
- ✓ Simcoe County identified as a key area for planned employment and population growth opportunities.
- ✓ Simcoe County Council adopted a resolution to complete a Water and Wastewater Visioning Strategy.
- ✓ Greenland retained to complete an infrastructure planning and watershed impact assessment study including GIS-based modeling of all County watersheds using CANWET™ (v.4).

Map of Simcoe County

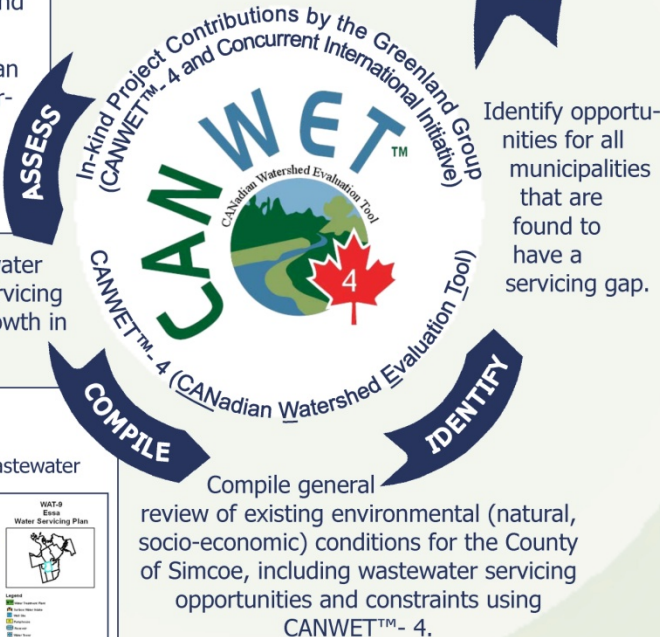
Assess all existing water & wastewater system capacities with respect to servicing existing and proposed population growth in the County of Simcoe.

Sample Problem

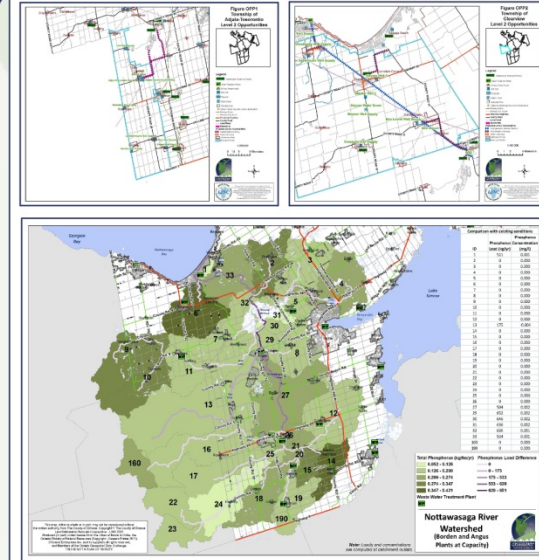
Township of Essa (Angus Wastewater Treatment Plant) has residential wastewater capacity. Neighbouring municipalities (Clearview and Adjala-Tosorontio) have a negative deficit wastewater servicing gap.



Study Objectives



Sample Solution



By connecting and treating 2031 wastewater flows from neighbouring municipalities (Clearview and Adjala-Tosorontio) at the Angus and C.F.B. Borden Wastewater Treatment Plants, there is a negligible increase in downstream phosphorus concentrations in the Nottawasaga River.

Submitted By:

- Greenland Consulting Engineers
 - Jim Hartman, P. Eng.
 - Trevor Boston, M.Sc., P. Eng.
 - Neil Marsden, B. Sc.
 - R. Mark Palmer, P. Eng.
- County of Simcoe
 - Rick Newlove, P. Eng.—General Manager of Engineering, Planning & Environment
 - Grant Hudolin—Geographical Information Systems Manager
 - Matt Murray—Geographical Information Systems



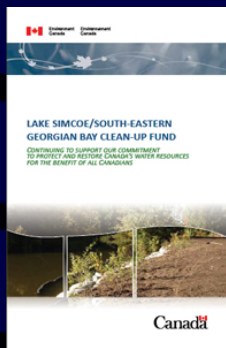
Acknowledgments:

- Mark Aitken, CAO – County of Simcoe
- Staff from the County of Simcoe
- Staffs from the Study Municipalities, First Nations & C.F.B. Borden
- Elected Officials from the County of Simcoe & Study Area Municipalities
- District Municipality of Muskoka
- Regional Municipality of York
- Regional Municipality of Durham
- Nottawasaga Valley Conservation Authority
- Severn - Sound Association
- Lake Simcoe Region Conservation Authority



2012 Ontario Consulting Engineering Awards

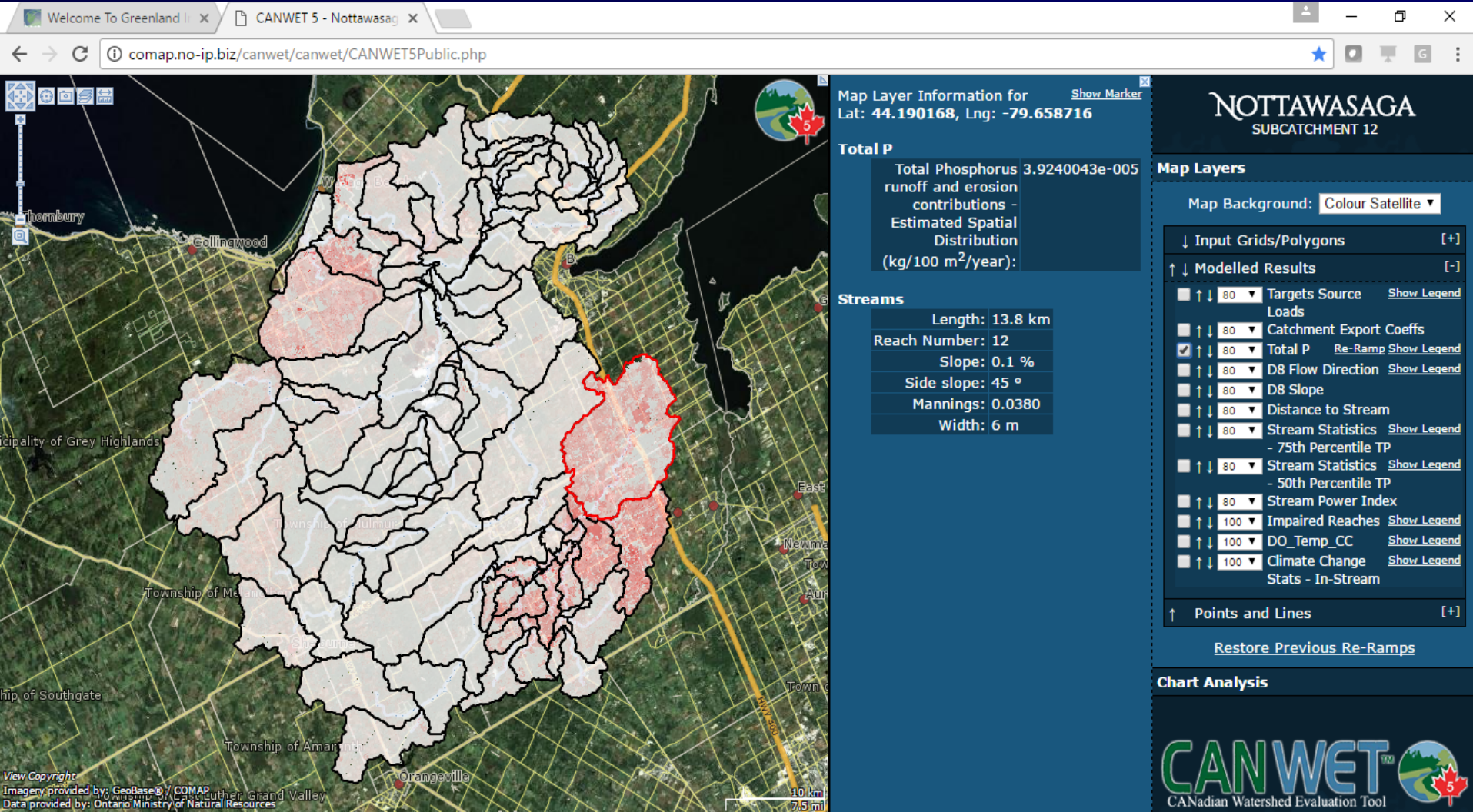


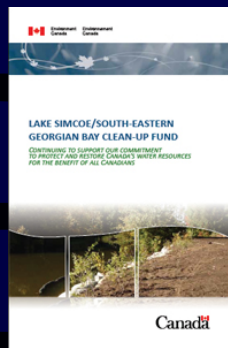


Version '5' (Internet Prototype)

Completed in March 2017

(Nottawasaga River Watershed)

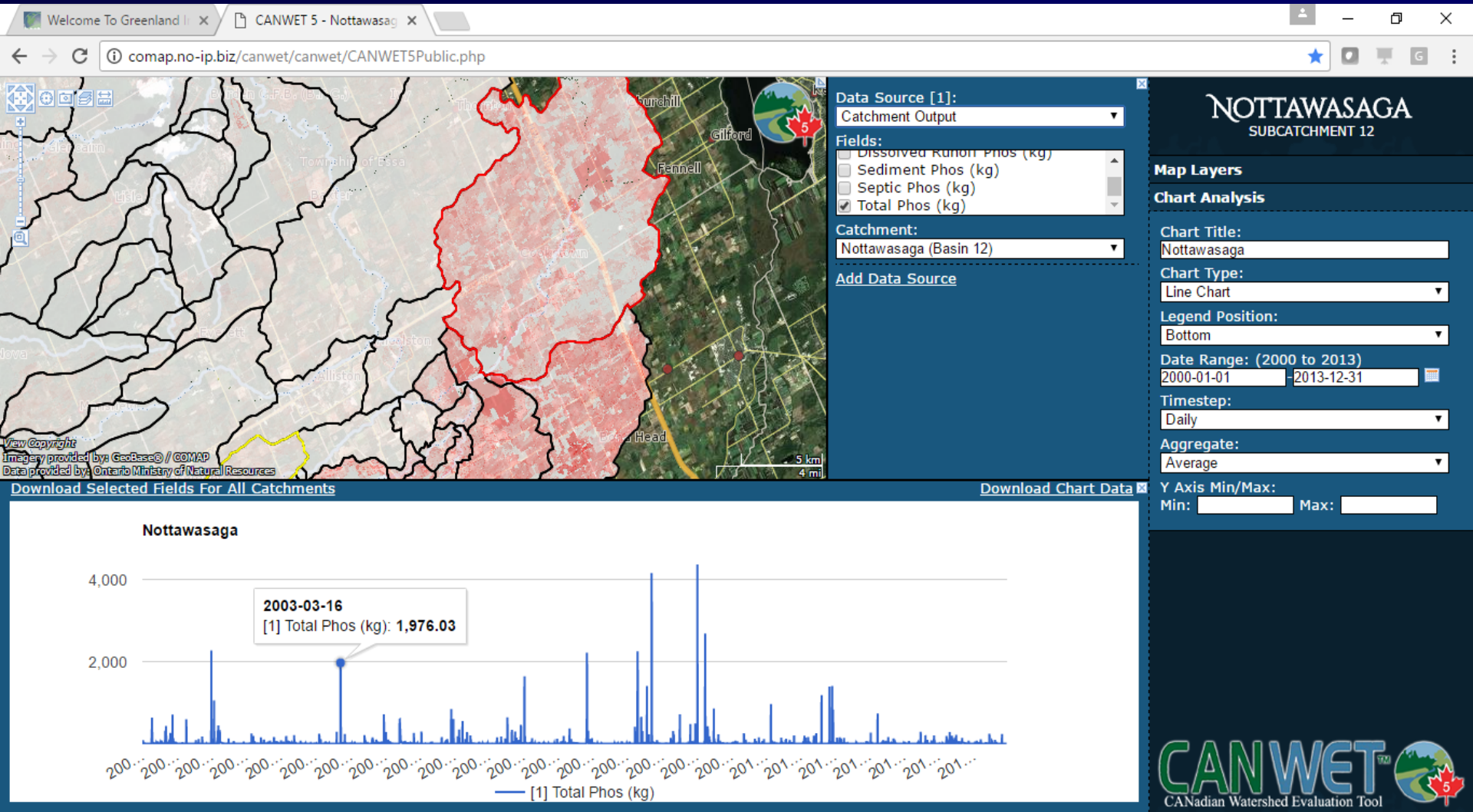




Version '5' (Internet Prototype)

Completed in March 2017

(Nottawasaga River Watershed)



2015
January
25

Evaluation of Policy Options to Achieve Nutrient Reductions from Canadian Sources to Lake Erie

Prepared for:
Environment Canada

Submitted By:



Greenland
International Consulting Ltd.

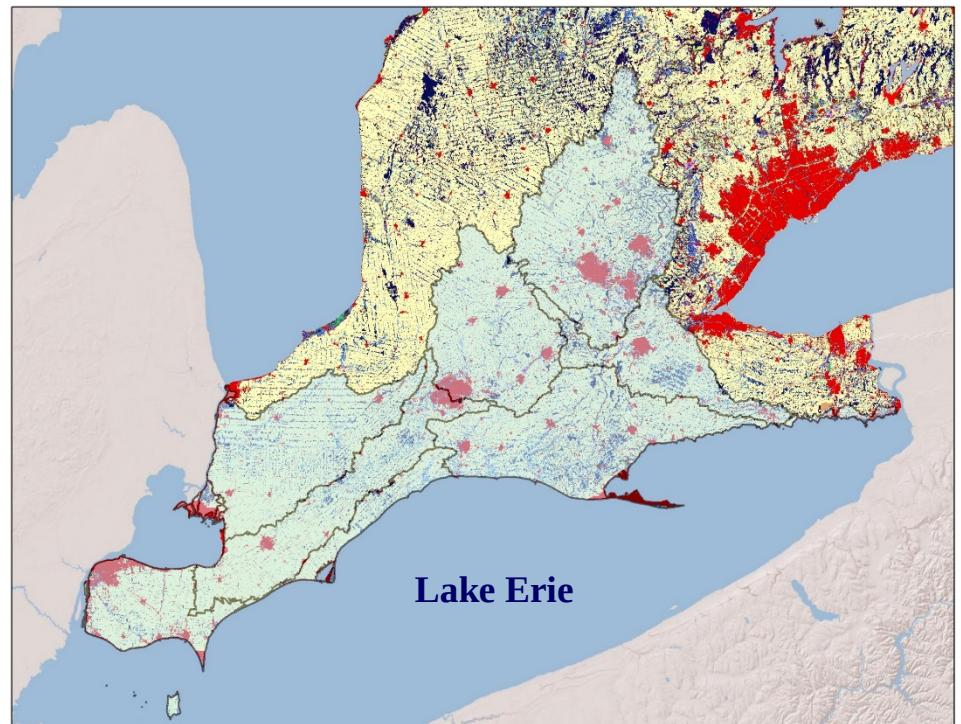
In Association With:



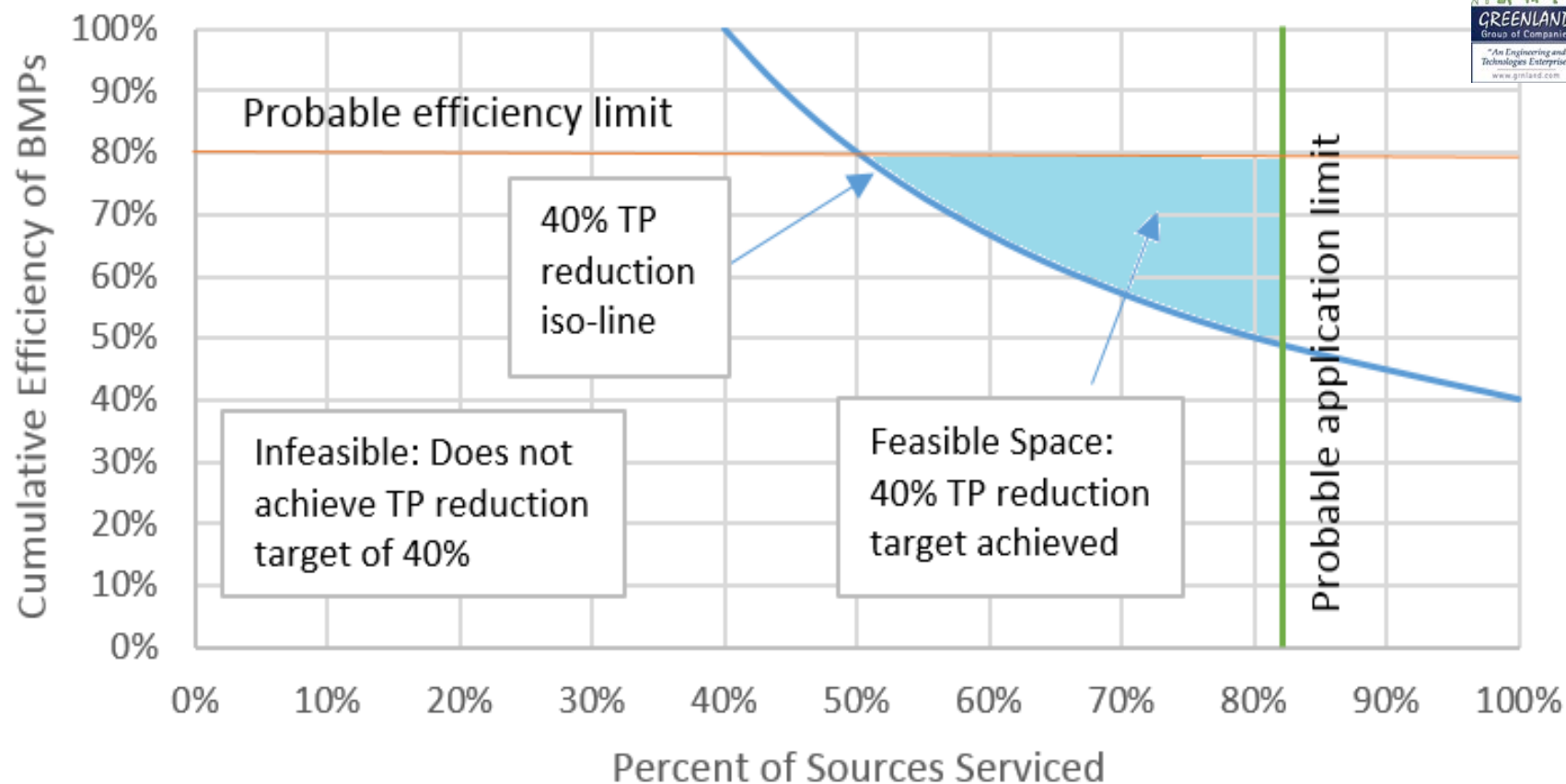
University of Guelph

Wilkinson Insights Incorporated

Development of Policy Options & Lake Erie Demonstration Use of the CANWET™ Decision Support System (*On-going*)



BMP Efficiency and Portion of Loads Serviced



**NOTE: Current Lake Erie Basin Conditions
and Without Climate Impact Analysis**



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Proposed IJC, OFA, UGuelph, UWaterloo, Penn State and IBM Collaboration to Use CANWET™ for a 'Multi- Tier' Cumulative Effects Internet DSS on the Great Lakes Basin (On-going)



International Joint Commission
Canada and United States



Commission mixte internationale
Canada et États-Unis

February 24, 2015

Hussein Abdullah, Ph.D., P.Eng.
Director, School of Engineering
University of Guelph
50 Stone Road East
Guelph, ON N1G 2W1

Dear Dr. Abdullah,

Thank you for your letter of January 26, 2015, regarding the University of Guelph's partnership with Greenland Consulting Engineers and how your emerging watershed evaluation tool (CANWET™) may help address the issue of harmful algal blooms in Lake Erie.

We would be pleased to arrange a meeting with you and your colleagues to learn about your project ideas.

I have been made aware of Greenland Consulting Engineers and CANWET™ through briefings given to me by IJC scientists following conference presentations and informal webinar presentations. The IJC wishes to bring the best modelling technologies available from both Canada and the United States to the table as it seeks to advise the federal governments on how best to reduce loadings of nutrients to Lake Erie and improve water quality. You may be interested to know that the IJC is leading a binational effort to apply the USGS-developed SPARROW water quality model to the entire Great Lakes Basin.

Dr. Glenn Benoy, Senior Water Quality and Ecosystem Adviser, will represent the Canadian Section of the IJC in this discussion with the University of Guelph and Greenland Consulting Engineers. As necessary, he will involve science advisers from the IJC's United States Section in Washington, DC, and it's Great Lakes Region Office, in Windsor, Ontario. Dr. Benoy can be reached by telephone at 613-995-0433 or by email at benoyg@ottawa.ijc.org. As an aside, Glenn received his Ph.D. from the University of Guelph.

Sincerely,

Gordon Walker, Q.C.
Chair, Canadian Section

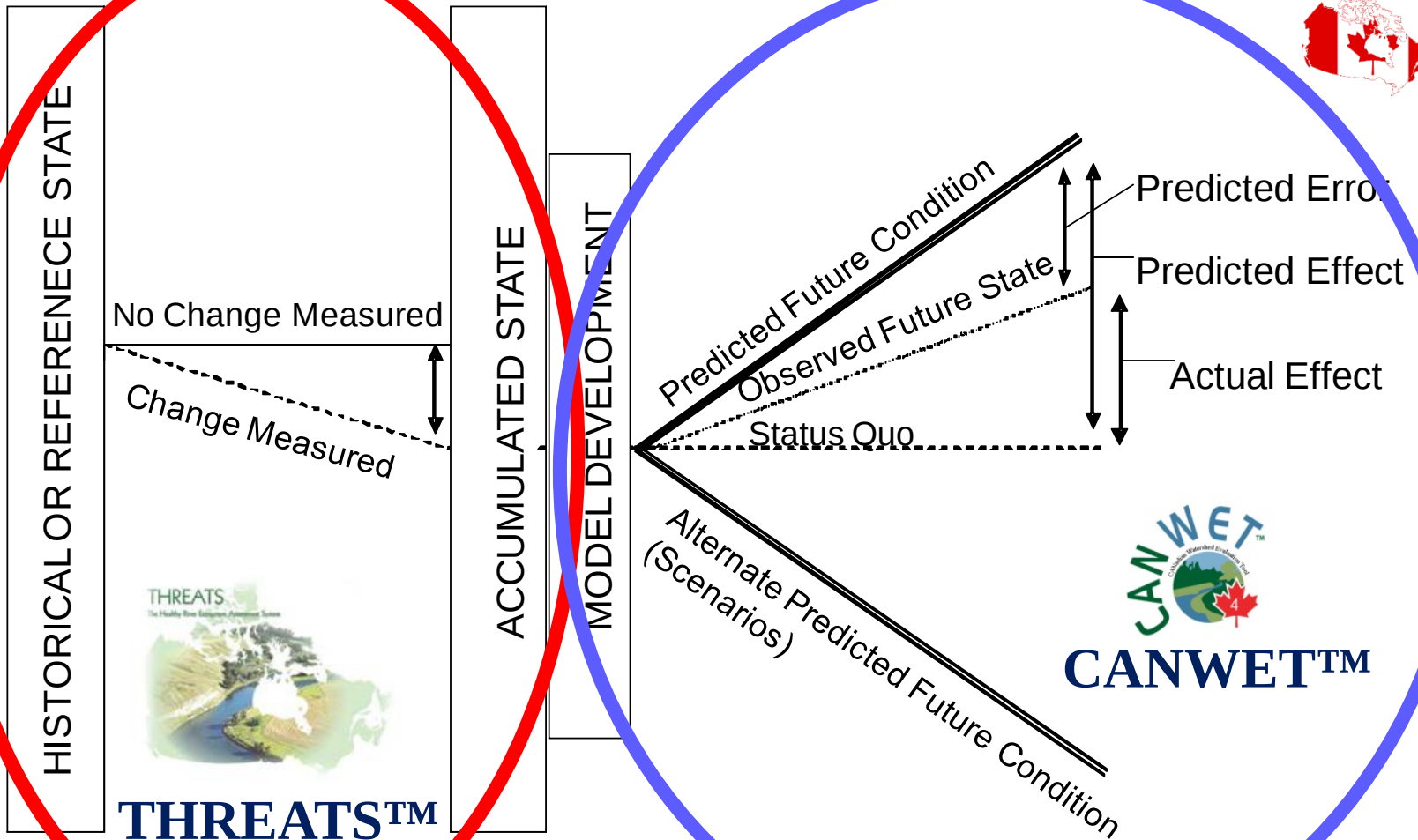
cc: Camille Mageau, Canadian Section, Secretary
Glenn Benoy, Canadian Section, Senior Water Quality and Ecosystem Adviser

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2000 L St. NW, Suite 615
Washington, DC 20036
Phone: (202) 736-9000 Fax: (202) 632-2006
commission@washington.ijc.org

Real-time Monitoring + Science-based Modeling = Cumulative Effects Decision Support



Mrs Jing Li
Lund University Paradigatan 2
SE-221 00 Lund
Sweden

24th February 2016
Brussels,

Dear Mrs Jing Li,

We are pleased to confirm the labelling of the project FLOODVIEW under our Open Call 7. This label is awarded subject to the satisfaction of national funding authority's requirements and obtaining funding.

ACQUEAU is the first EUREKA Cluster dedicated to environmental and water related technologies. It aims to promote innovation and market driven solutions to develop new technologies in the water sector. The ultimate aim of a EUREKA Cluster is to facilitate the generation of market-driven, pan-European collaborative water research and technological development R&D projects for the benefit of the European industry.

The ACQUEAU label is awarded to project proposals with the potential of developing breakthrough innovations. It allows successful consortium companies to apply for national funding in support of the labeled project; the label is an assessment of quality, economic interest and viability of the projects.

In order to receive the label, please, proceed to make the payment for the administration fee (see invoice attached). This is set at the 0.15% of the proposal budget which covers the cost of administering the call process.

Our warmest congratulations - we look forward to working with Project Assignments, and your partner on this innovative project and keep at your disposal for any additional information or request you might have.

Yours sincerely,

Daniel VILLESOT
Chairman of the Board



ACQUEAU - Eureka cluster for water
Rue Neuveld 107/ 1200, Brussels - Belgium
Tel: +32 2 777 0986 / www.aquaeu.eu



ISWMS™ Internet Platform **International Joint Venture (On-going)**

NEWS LOCAL

Local firms going to Paris for global conference

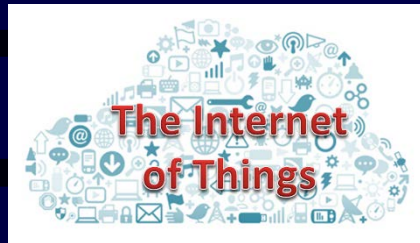


By JT McVeigh, The Enterprise-Bulletin
Monday, September 14, 2015 10:45:59 EDT AM



Eric Palmer, left, along with his parents Jane and Mark and brother Andrew are all of Greenland Consulting Engineers. The firm, long-recognized for their innovation will be heading to Paris, France, one of two Collingwood firms representing the National Research Council.

Integrated Science and Watershed Management System (ISWMS™)



The Integrated Science and Watershed Management System (ISWMS™) was originally developed by the GREENLAND® Group as a windows-based Decision Support System (DSS) for stormwater management; hydrological modelling; floodplain mapping and flood forecasting. Version '1' was completed in 2003.

At the time, the long-term DSS 'vision' (but depending upon the availability of certified open data and timely evolution of cost-effective operational platforms) included other science-based tools + integrated GIS / Internet tool sets.

The ISWMS™ goal 'now with international partners & referred to as 'FLOODVIEW'' includes multi-functional stormwater management; hydrologic; water quality; nutrient trading; hydraulic and contaminant transport; flood forecasting; climate change impact; instream (biological) health assessment; and, Best Management Practice capabilities for watershed management programs. Our other Internet-based platform tools will also be used for concurrent water infrastructure & flood control planning / design initiatives.

Mrs Jing Li
Lund University Paradisgatan 2
SE-221 00 Lund
Sweden

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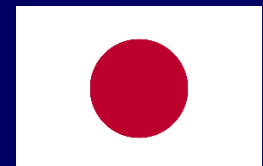
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Yours sincerely,

Daniel VILLESSOT
Chairman of the Board

A handwritten signature in black ink, appearing to read "D. Villesot", with a long horizontal stroke extending to the right.

SGBLS Source Water Region (1 of 3 Pilot Sites)



County of Simcoe
 Office of the Chief
 Administrative Officer
 1110 Highway 26,
 Midhurst, Ontario L0L 1X0

Main Line (705) 726-9300
 Toll Free 1-866-893-9300
 Fax (705) 725-1285
simcoe.ca



October 19, 2015

Mr. R. Mark Palmer, President / CEO
 Greenland International Consulting Ltd.
 120 Hume Street
 Collingwood, ON L9Y 1V5

Dear Mr. Palmer:

Re: Canada-Europe Partnership to Develop a Cloud-based Flood Reduction & Forecasting Platform

The County of Simcoe is the upper tier government and planning authority for most of the South Georgian Bay – Lake Simcoe Source Water Protection Region. The County, in partnership with its member municipalities, other levels of government, floodplain management agencies and two (2) conservation authorities, also provides leadership through policy, and actively in the restoration and protection of the environmental health and quality of these watersheds. As you know, in order to comply with, and be environmentally proactive with respect to the Province of Ontario's "Places to Grow" legislation, the County of Simcoe utilized innovative decision support tools such as Greenland's CANWET™ model. In 2012, CANWET™ was also used by the County to prepare a "Water and Wastewater Infrastructure Visioning Strategy". To this day, the information in the Strategy's final report is used by local municipalities, development interests and other stakeholders as a background reference to help identify sustainable development solutions.

As part of Greenland's growing international opportunities and commercialization of other in-house tools and decision support systems, we believe the subject Canada – Europe partnership will enable Greenland and its Ontario-based partners to further develop the "Integrated Science and Watershed Management System (ISWMS™)" not only for use across Canada but also overseas for the benefit of many. The ISWMS™ platform includes the CANWET™ system, other proven tools and new ones being developed for an integrated stormwater management; low impact development; climate adaptation; and floodplain management focus.

This letter confirms the County of Simcoe's commitment of support which includes initially facilitating the introduction of this landmark international collaboration with all 16 local municipalities, other governments (small and large) and other agencies that partner now with the County of Simcoe on land use planning; infrastructure renewal; and flooding risk/damage reduction initiatives. Further considerations could also be contemplated through County Council once the project is approved and underway in the spring 2016.

As always, I look forward to our continued working relationship with you and your colleagues and the significant benefits these efforts will have for our residents and environment. The County of Simcoe appreciates your efforts towards developing information based decision making tools and we are confident that this project will prove beneficial in our collaborative goal to improve watershed health for all County residents.

If you require any further information, please do not hesitate to contact me.

Sincerely,

Mark Aitken
 Chief Administrative Officer
 The Corporation of the County of Simcoe

CAO-003-C01

Town of Collingwood

SGBLS Source Water Protection Region

Internet ISWMS™ Platform - Pretty River Watershed (On-going)

PrettyRiver_Manual_int - OTter

File Simulation Data Help

Watershed Delineation
Clip GIS Model
Generate Run Order
Run Simulation
Export Full Results

Mapping

Lat: 44.442; Lng: -80.431

Collingwood

Collingwood Regional Airport

Stayner

3.0 km
2.0 mi

Map Elements

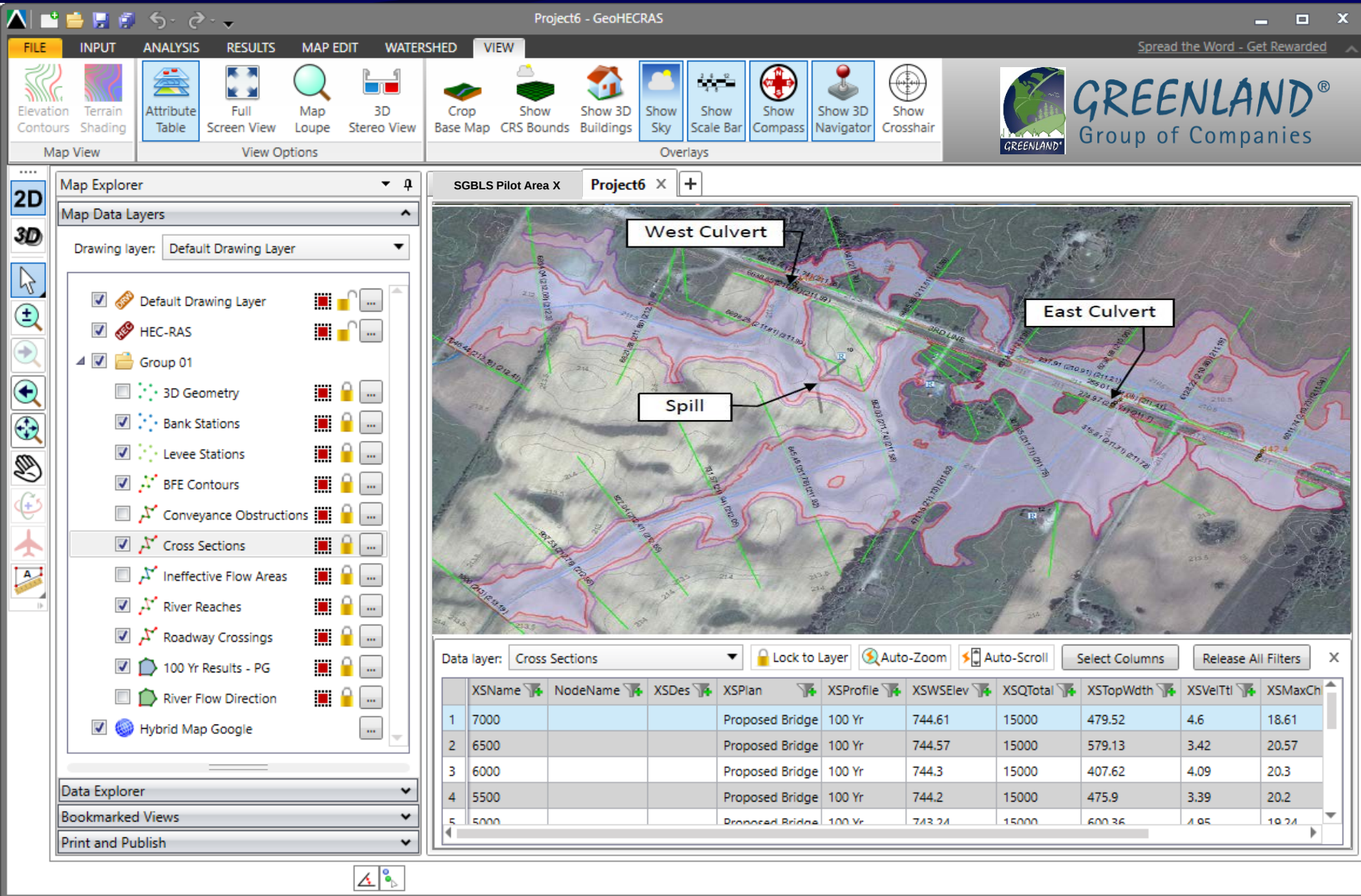
Basemap: OpenStreetView
Projection: NAD83, Projected
UTM Zone: 17N

Layers

- ☒ Subcatchments
- ☒ Streams
- ☒ HYMO Subcatchme...
- ☒ HYMO Streams

-olygonID	Area_ha	Area	ClimateID	CN	IA_mm	LnrReserv	Tp_hr	S_over_la	ForestCvr	Lat	Long	Timezone	srfcAlbedo	SufSlope	Bripeness
7	286.8875	2868875	TimminsStorm82%_mm	78.4	7.49	2.4	1.209	0.05	0	4919977.65748	561056.822389	17	0.5	5.32999992371	0.85
16	337.34	3373400	TimminsStorm82%_mm	70.6	9.22	2.4	2.986	0.05	0	4920283.09509	555659.889488	17	0.5	7.65000009537	0.85
14	233.03	2331400	TimminsStorm82%_mm	73.3	8.71	2.4	0.603	0.05	0	4919949.77581	557419.006669	17	0.5	10.06999996948	0.85
10	205.09125	2050912.5	TimminsStorm82%_mm	73.8	8.48	2.4	1.079	0.05	0	4919031.2467	559887.966018	17	0.5	8.85000038147	0.85
17	1309.65521148	13096552.1148	TimminsStorm82%_mm	67.2	8.91	2	2.977	0.05	0	4916906.62768	555054.211447	17	0.5	4.19000005722	0.85
15	61.8875	618875	TimminsStorm82%_mm	71.1	9.41	2.4	0.688	0.05	0	4918972.11851	556562.82371	17	0.5	9.43000030518	0.85
13	643.49	6434900	TimminsStorm82%_mm	68.7	9.23	2.4	2.116	0.05	0	4917536.0761	557649.825049	17	0.5	6.36000013351	0.85
11	306.56	3065600	TimminsStorm82%_mm	57.6	9.22	2.4	1.827	0.05	0	4917716.45394	560946.120775	17	0.5	7.21999979019	0.85

11:09 AM
2016-11-17



ISWMS™ – SGBLS Source Water Protection Region (On-going)

THANK-YOU!



"I want you to find a bold and innovative way to do everything exactly the same way it's been done for 25 years."

