



APPROVED MINUTES

Full Authority

March 23, 2016 Full Authority Meeting

**NIAGARA PENINSULA CONSERVATION AUTHORITY
FULL AUTHORITY MEETING MINUTES**

Wednesday March 23, 2016; 9:30 am
Ball's Falls Centre for Conservation
3292 Sixth Avenue, Jordan, ON

MEMBERS PRESENT:

B. Timms (Chair)
S. Annunziata (Vice-Chair)
B. Baty
S. Beattie
F. Champion
P. Darté
D. DiFruscio
J. Diodati
B. Hodgson
A. Jeffs
D. Joyner
J. Kaspersetz
T. Quirk
R. Shirton

MEMBERS ABSENT:

J. Maloney - Regrets

STAFF PRESENT:

C. D'Angelo, CAO/Secretary-Treasurer
D. Barrick, Director, Corporate Services
P. Graham, Director Watershed Management
M. Brickell, Acting Director, Operations
M. Ferrusi, HR Generalist
G. Furtney, Acting Manager, Strategic Initiatives
K. Frohlich, Ecologist
M. Reles, Communications Specialist
N. Devos, Superintendent, Ball's Falls
L. Conte, Administrative Assistant, Office of CAO & Board

OTHERS PRESENT:

Glen Robins, Andrea Bourrie, Paddy Kennedy, Jerry Lemick, Moe Edwards, Helmut Rempel

Full Authority meeting called to order at 9:34 am and Chairman Timms welcomed board members, and guests and reminded all that this meeting is being live streamed, Communication Specialist, Michael Reles commented that this information was posted on our website and social media channels. As part of our goals to be open and transparent, the public will be able to access this meeting live.

Link to meeting – you tube video <https://www.youtube.com/embed/8RUNz2JBgHM>

DECLARATION OF CONFLICT OF INTEREST

None declared

ADOPTION OF AGENDA:

Resolution No. FA-42-16

Moved by: D. Joyner

Seconded by: R. Shirton

THAT the agenda for the Full Authority Meeting be adopted as presented.

CARRIED

BUSINESS:

1. **A. Approval of the Minutes - Full Authority Board Meeting February 17, 2016**

B. Committee Meeting Minutes (Draft):

➤ *Cave Springs Steering Committee – February 23, 2016*

➤ *Watershed Floodplain Committee Meeting – March 2, 2016*

Resolution No. FA-43-16

Moved by: T. Quirk

Seconded by: J. Kaspersetz

THAT the minutes of the Full Authority Meeting held February 17, 2016 be approved as presented; and

THAT the DRAFT minutes for Cave Springs Steering Committee held February 23, 2016 be received for information; and

THAT the DRAFT Watershed Floodplain Committee Meeting minutes of March 2, 2016 be received for information.

CARRIED

2. **Business Arising from the Minutes**

None

3. **Correspondence**

1. *NPCA Press Release dated March 11, 2016 regarding Hawkwatch event Mar. 25th*

2. *Conservation Ontario letter dated March 14th regarding City of Waukesha, WI; supporting TRCA's resolution.*

3. *Lakehead Region C. A. letter dated March 1, 2016 regarding the City of Waukesha, WI application*
 - Members inquired about NPCA's jurisdiction in this matter. This is an International agreement; NPCA is only a commenting agency and can either support TRCA's resolution or receive for information.
4. Correspondence email dated March 2, 2016 regarding Conservation Ontario's voting list.

Resolution No. FA-44-16

Moved by: S. Annunziata

Seconded by: D. Joyner

THAT NPCA Chair be appointed as the primary voting delegate for Conservation Ontario, with Vice-Chair as the 1st alternate, and board member James Kaspersetz as 2nd alternate.

CARRIED

Resolution No. FA-45-16

Moved by: D. Joyner

Seconded by: R. Shirton

THAT the correspondence items be received for information purposes.

CARRIED

4. Chair's Remarks

- One of our vision statements is *"balancing conservation and sustainable development for future generations by engaging landowners, stakeholders and communities through collaboration"*. In the past 2 months we've been engaging through consultation, meetings, information covering a number of subjects and many ask why is the CA doing this. As Chair, this board determined to be proactive, and we have been doing so with the Binbrook Master Plan, Cave Springs MP and the Floodplain mapping and, more recently, we have been proactive in response to the Provincial reviews of the CA Act and Wetlands Strategy. We wanted to be proactive and not wait for Queen's Park or other commenting agencies to set our directions. We have engaged the public and community at large and received many comments in response to these issues. Chair thanked the board for taking in their role.

5. CAO Comments

- **Canadian Motor Speedway Project** – Staff met with proponent of the project, Town of Fort Erie and Region of Niagara. The site plan application must be submitted to the Town of Fort Erie with the NPCA providing comments on behalf of the Region on Environmental issues as per Regional policies and NPCA policies; we will also provide comments on the storm water management plan, groundwater plan and wetland issues which includes the relocation of creek. Project is moving along and staff will provide updates to the board as it moves forward.
- **Official Plan for Niagara-on-the-Lake** - Staff has been consulting with Town of NOTL and the Region on the **contemporary water course mapping project** – a mapping of all watercourses within the municipality, drains and setbacks to watercourses. Staff met with Town and Regional representatives and came to consensus on how to identify the watercourses, their classifications and appropriate setbacks. It was agreed by all parties to hire a consultant – cost sharing. This part of the process is key as it will set the standard when the other eleven (11) municipalities begin their official plan reviews.

NPCA will have information on establishing parameters. Once the official plan gets released in June it will be brought back to this board.

The Director of Corporate Services, D. Barrick introduced new NPCA employee, John Wallace, Manager of Finance who comes with 35 years' experience in the public sector. Board welcomes John Wallace to NPCA.

Reports for Information:

6. Project Status Reports:

6.1 Watershed Status Report No. 22-16

➤ **Policy Review Update**

*Presentation by Mr. Paddy Kennedy of Dillon Consulting
(attached)*

- Member Joyner commented on the importance of having board representation at the public meetings/roadshows. This will be the case as we head into the critical phase of the project, remarked P. Graham.
- Regarding the Strategic Plan Working Group, member Baty wants to ensure that the recommendations including policy development tools are integrated in the current policy review update.
- **Note: copy of presentation to be circulated to members and will be included in minutes.**

➤ **Watershed Floodplain Mapping Project**

*Presentation by Ms. Andrea Bourrie of MMM Group
(attached)*

- Members asked that the “word cloud” be refined to more accurately reflect what was heard at the public sessions (i.e. “Mandate” should be more prominent).
- At the request of the Chair, consultants will provide an updated version of the word cloud along with the legislation and NPCA’s mandate at the committee level next week (Mar 30).
- **Note: based on input received; the public wants to have more detailed discussions about the technical aspect and as such will require appropriate time to prepare; the Committee’s decision was to delay consultation with the public until June. Meeting dates will be forthcoming.**

Resolution as follows:

Resolution No. FA-46-16

Moved by: P. Darté

Seconded by: B. Baty

THAT Watershed Status Report No. 22-16 be received for information;

THAT the presentations by Dillon Consulting and MMM Group be received for information purposes including the suggestions of approved notifications to the board;

THAT both presentations be included in the minutes, and

THAT member Baty's concerns regarding the policy development process developed through the Strategic Plan be addressed and incorporated into the policy review process of Dillon Consulting.

CARRIED

6.2 Operations Status Report No. 23-16

➤ ***Invasive Species***

Staff Presentation by Kim Frohlich

(attached)

- Member Annunziata has requested that an update on invasive species be included in our Watershed Report Cards.
- C. D'Angelo commented that there is a standardized form across the Province for all CA's to follow a template for the watershed report cards which frequency is now 5 years. The last Watershed Report Card was 2012.
- Annunziata suggested staff report on when and where we are getting our information from; what agencies report on invasive species. Do the agencies provide enough information or do we need to do more.
- Member DiFruscio suggested holding workshops and informing schools to educate about invasive species.
- Although member Jeffs reported that Wainfleet has considerable invasive species "wild parsnip" on Regional Road 27, staff reported that NPCA is currently caring for Conservation Area properties only but will provide expert advice to those who inquire.
- With respect to the capacity to deal with invasive species, C. D'Angelo commented; we provide advice, but we do not have the financial or staff resources to deal with this significant problem in our watershed. There are some federal and provincial initiatives that we hope come with some resources.
- ***Note: Regarding member's inquiry about neonicotinoids, honey nut and pollinators; will be deferred to the next meeting.***

➤ **Gord Harry Trail update**

Staff photo presentation by Kim Frohlich and Mark Brickell
(attached)

- In response to member Shirton's question regarding the timelines for removal of equipment from the site; Mark Brickell will have further update information at the next meeting, but noted that the trail is currently open for public use.
- Member Quirk requested that as the project comes to a close in August, the Board would like to see the before, during construction and final pictures, side by side and that these photos be included in the Agenda package to the board when ready.

Resolution No. FA-47-16

Moved by: A. Jeffs

Seconded by: D. Joyner

THAT Operations Status Report No. 23-16 be received for information purposes.

CARRIED

6.3 Corporate Services Status Report No. 24-16

Resolution No. FA-48-16

Moved by: T. Quirk

Seconded by: D. Joyner

THAT Corporate Services Status Report No. 24-16 be received for information purposes.

CARRIED

7. 2015 Unaudited Year End (Draft) Operating & Capital Budget Summary – Report No. 25-16

Resolution No. FA-49-16

Moved by: T. Quirk

Seconded by: P. Dart

THAT Report No. 25-16 with 2015 unaudited year end Operating & Capital Budget Summary, be received for information purposes.

CARRIED

8. DRAFT 2015 Annual Report – Report No. 26-16

2015 Annual Report - <https://npca.ca/sites/default/files/NPCA2015AnnualReport.pdf>

Resolution No. FA-50-16

Moved by: J. Diodati

Seconded by: S. Annunziata

THAT the 2015 Annual Report be received and approved.

CARRIED

9. **Conservation Act Review update – Report No. 27-16**

It was noted that the Province positioned their discussion paper and asked CA's to comment; and we have provided commentary. This update is the feedback received by various stakeholders.

Resolution No. FA-51-16

Moved by: B. Baty

Seconded by: J. Diodati

THAT the CA Act Review update Report No. 27-16 be received for information.

CARRIED

10. **Forestry Update – Report No. 28-16**

Resolution No. FA-52-16

Moved by: J. Kaspersetz

Seconded by: S. Beattie

THAT Report No. 28-16 an update on Forestry, be received for information.

CARRIED

Reports for Consideration:

11. **Niagara Remedial Action Plan 2016/2017 - Report No. 29-16**

It was noted that we are on schedule for delisting in March 2020.

Resolution No. FA-53-16

Moved by: S. Annunziata

Seconded by: J. Kaspersetz

That the Board APPROVE the NPCA to continue to provide the Ministry of the Environment and Climate Change (MOECC) with project management and coordination services for the implementation of the Niagara River Remedial Action Plan (RAP) through the approval of the 2016/17 RAP Agreement.

CARRIED

12. **2015 Capital Surplus / Reserve Status - Report No. 30-16**

Resolution No. FA-54-16

Moved by: S. Beattie

Seconded by: M. DiFruscio

1) That Report No. 30 -16 be **RECEIVED** for information.

2) That the Board **APPROVE** \$68,500 from the 2015 Year-End Capital surplus for the purchase of 2 galvanized trailers and the creation of a trailer storage compound at Long Beach.

3) That the NPCA Board **APPROVE** \$21,696 from the 2015 Year-End Capital surplus for the purchase of 8 Defibrillators from Heart Niagara Inc.

- 4) That the Board **APPROVE** the balance of 2015 Year-End capital surplus be transferred to the Conservation Area Capital Reserve.
- 5) That the NPCA Board **APPROVE** \$45,569.82 from the Niagara Land Acquisition reserve to pay for the Land Transfer Tax issued by the Ministry of Finance for four assessments which occurred in 2015.

Moved by: S. Beattie

Seconded by: J. Kaspersetz

That the motion be amended by adding the following:

- 6) That the NPCA Board **APPROVE** \$10,000.00 from the Year-End Capital surplus for the purchase of a steel roof at the Binbrook CA comfort station.

CARRIED

Moved by: S. Beattie

Seconded by: T. Quirk

That the motion be amended by adding the following:

- 7) That the NPCA Board **APPROVE** \$20,000 for the assessments required for upcoming water and wastewater improvements at the Binbrook CA to be taken from the Year-End Capital surplus.

CARRIED

MOTION CARRIED AS AMENDED

13. Management Compensation – Report No. 31-16

Staff to provide comparators from Conservation Ontario, Sunshine list, Niagara Region and any other CA's that have already done so. CAO will provide top 10 CA's as a comparator.

Resolution No. FA-55-16

Moved by: D. Joyner

Seconded by: P. Darte

THAT Report No. 31-16 regarding Management Compensation be deferred to the next Full Authority Meeting.

CARRIED

14. Other Business

- City of Welland has appointed Councillor Bonnie Fokkens for representation on the Watershed Floodplain Committee and the NPCA board has approved the appointment as follows:

Resolution No. FA-56-16

Moved by: D. DiFruscio

Seconded by: J. Diodati

THAT the Board of Directors approve City of Welland's recommendation of Bonnie Fokkens for member representation to the Watershed Floodplain Committee.

CARRIED

- Member DiFruscio asked board permission that staff plant a Monarch garden (approx. 12' x 12') at Ball's Falls. DiFruscio will provide plants. Board resolved the following;

Resolution No. FA-57-16

Moved by: D. DiFruscio

Seconded by: D. Joyner

**THAT NPCA staff has board authorization to plant a Monarch garden at Ball's Falls.
CARRIED**

- Member DiFruscio requested he receive an update report on the Wild Game Dinner event.

With no other business in the public session, the following resolution was made:

Resolution No. FA-58-16

Moved by: B. Hodgson

Seconded by: R. Shirton

**THAT the meeting move to closed session to receive an update on the Welland Land Transfer and update on complaints on a violation on tree bylaw and wetland regulation.
CARRIED**

CLOSED SESSION

Declaration of Conflict of Interest:

Member D. Joyner declared a conflict of interest in a violation complaint and was excused during these discussions

Business in Closed Session:

1. [Violations / complaint - Verbal](#)
2. [Welland Land Transfer update – Report No. CR-32-16](#)

With no further business in closed session, the following was resolved;

Resolution No. FA-59-16

Moved by: T. Quirk

Seconded by: S. Annunziata

THAT the meeting rise from closed session with report.

CARRIED

Public Session:

The following resolutions resulted from discussions held in closed session;

Resolution No. FA-60-16

Moved by: B. Baty

Seconded by: R. Shirton

**THAT staff follow board direction related to the Welland Land Transfer and not complete the Transfer due to the indemnification clause; and,
THAT staff follow direction of Board respecting violation issue.**

CARRIED

ADJOURNMENT

There being no further business, the Full Authority meeting was adjourned at 1:33 pm with the following resolution:

Resolution No. FA-61-16

Moved by: R. Shirton

Seconded by: S. Annunziata

THAT the Full Authority meeting be adjourned.

CARRIED



Lisa Conte,
Administrative Assistant, Office of CAO
and Board of Directors



D. Bruce Timms
NPCA, Chair

NPCA POLICY DOCUMENT REVIEW

Board Presentation

March 23rd, 2016

PRESENTATION OUTLINE



1. Provide an update on the Policy Project
2. Highlight some of the results of our consultation and engagement activities to date
3. Next steps

THE CURRENT POLICY DOCUMENT



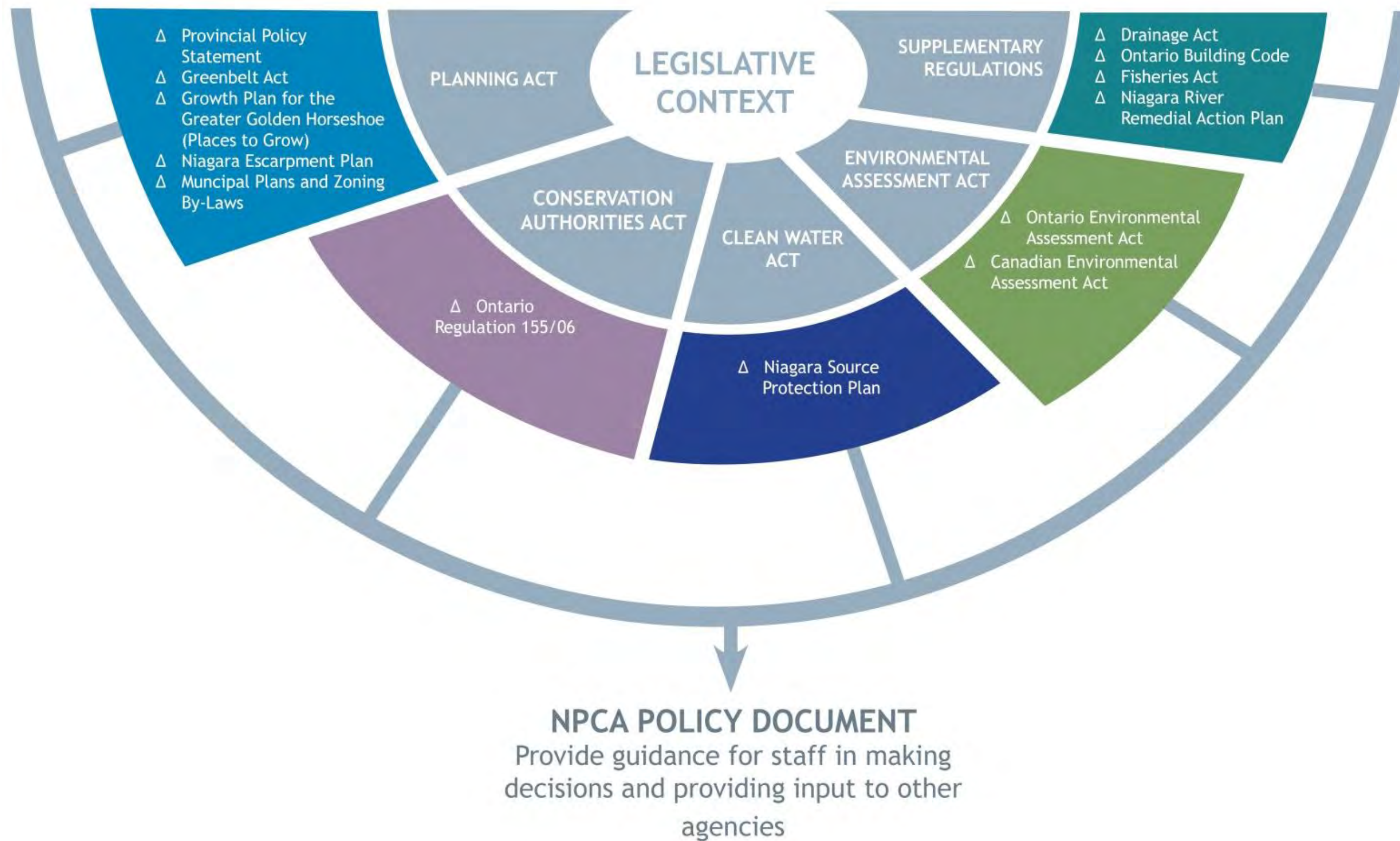
Policies, Procedures and Guidelines for the Administration
of Ontario Regulation 155/06
and
Land Use Planning Policy Document

December 12, 2007 (Original NPCA Board Approval)
December 9, 2009 (Housekeeping Amendments)
September 15, 2010 (Housekeeping Amendments)
October 19, 2011 (Housekeeping Amendments)



- The Policy Document is a decision-making tool used by the NPCA Staff
- The policies are intended to cover a broad range of site alteration and development scenarios
- Typically this involves the interface between natural areas, rural and agricultural areas and urban areas

POLICY CONTEXT



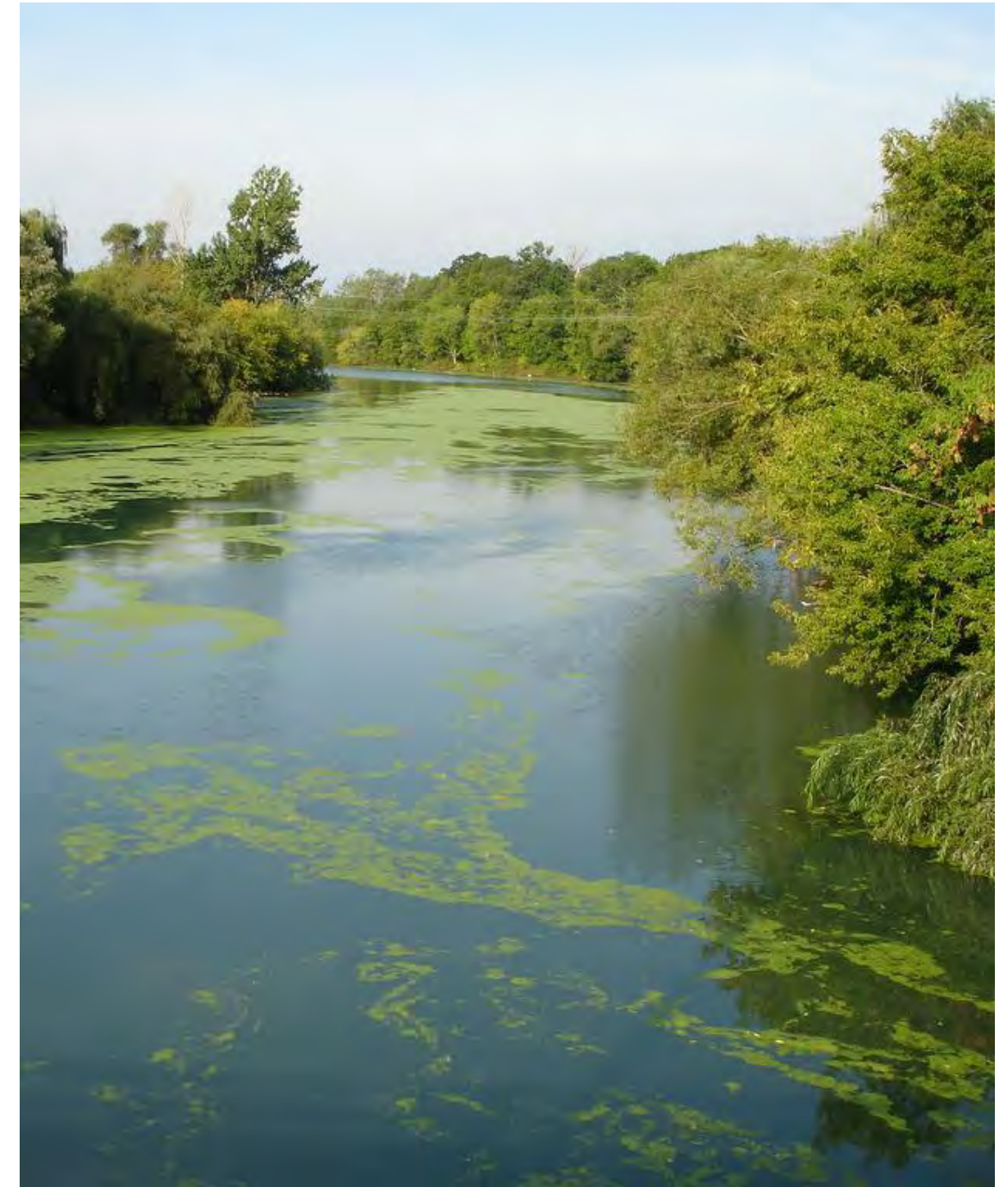
FUNCTION OF THE POLICY DOCUMENT

- The Policy Document speaks to several roles played by the NPCA:
 1. **Regulator:** Under Section 28 of the CA Act (development approvals within regulated areas)
 2. **Delegated Provincial Interest:** Under Section 3.1 of the PPS
 3. **Public commenting body:** Under the Planning Act
 4. **Resource management agency:** Under section 20 and 21 of the CA Act (authority to develop programs that reflect local resource management needs)
 5. **Service provider:** technical advisory role determined through various MOUs with municipalities in the watershed



FUNCTION OF THE POLICY DOCUMENT

- Sets out the general policies for managing development in/around regulated areas:
 - Watercourses
 - Floodplains
 - Valleylands and hazardous lands
 - Wetlands and Great Lakes Shorelines
- Also provides direction for:
 - Fish habitat
 - Significant wildlife habitat
 - Sensitive ground water features
 - Environmental Impact Studies
 - NPCA Land acquisition
 - Design considerations for erosion control, stormwater, natural channel design, etc.



KEY DRIVERS

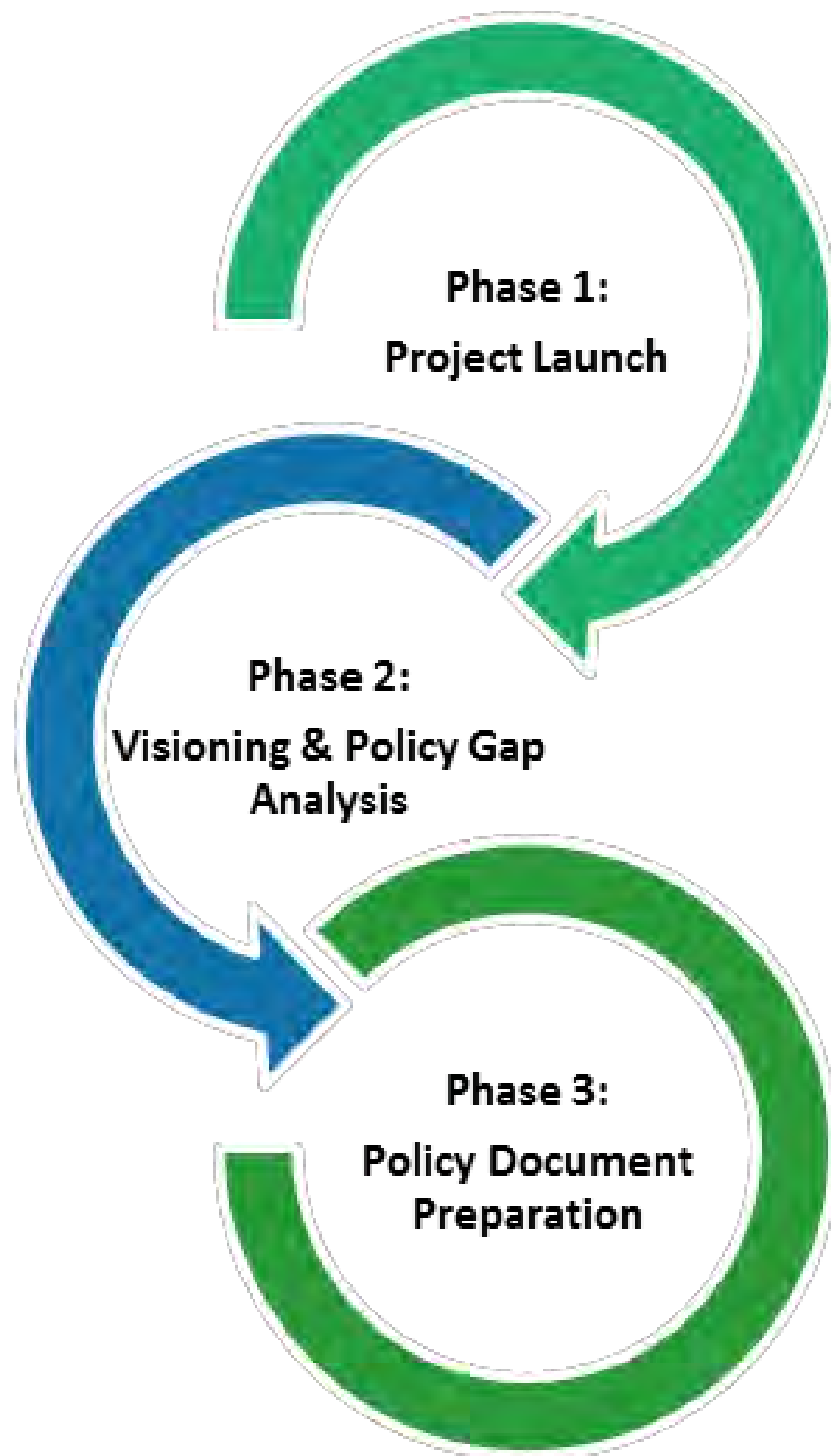
- NPCA recently updated its Strategic Plan and identified the need to update Policy Document
- Provincial planning and legislative changes
 - Provincial Policy Statement (2014)
 - Recently approved Source Protection Plan for the Niagara Peninsula Source Protection Area (2014)
 - Recent amendments to the Fisheries Act
- The Conservation Authorities Act, as well as various provincial plans are also being reviewed at this time
- A number of Official Plans have been updated recently
- Emerging considerations for climate change, resiliency and sustainable development



KEY DRIVERS

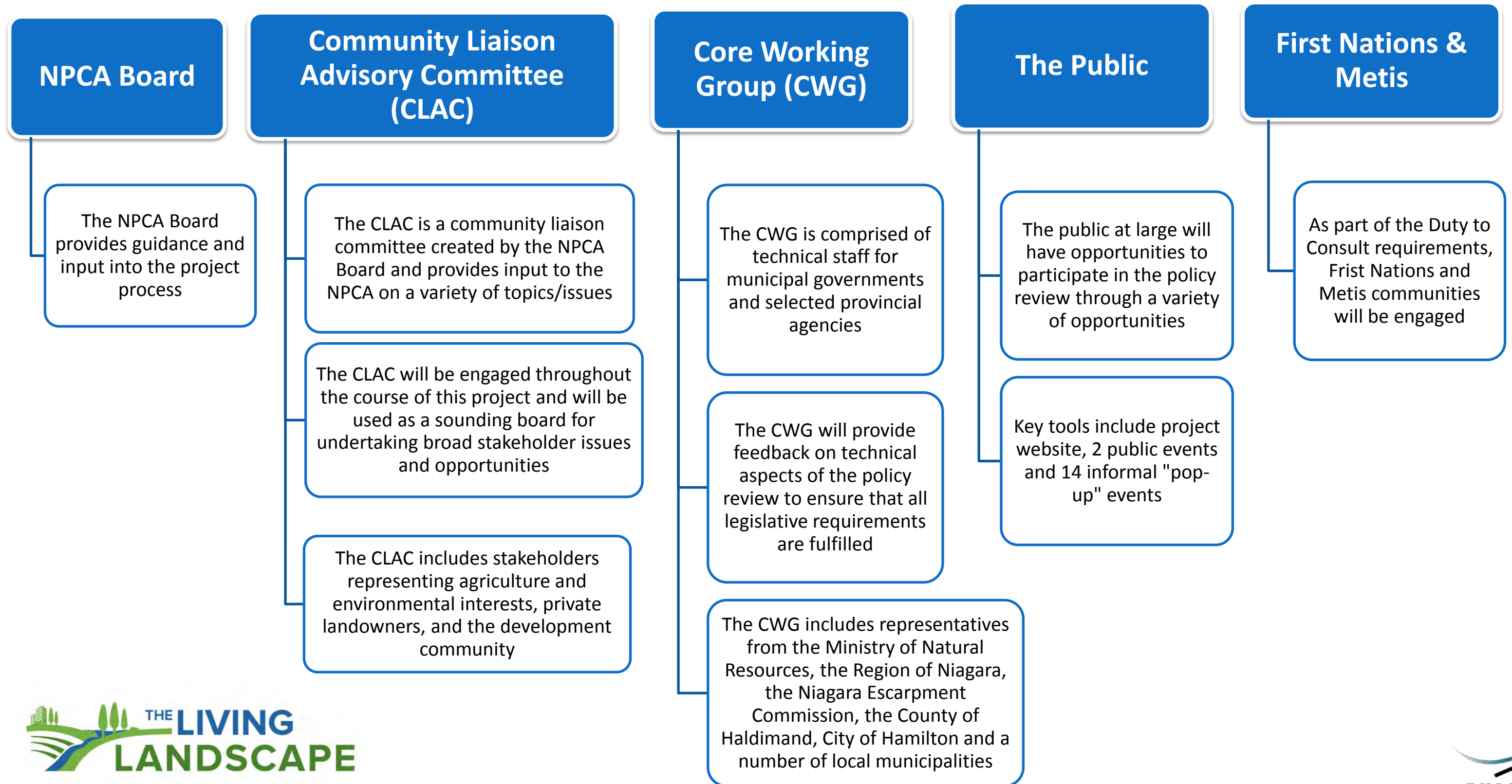
- There are also a number improvement opportunities, including:
 - **Policy interpretation** (use of clear language, alignment of definitions)
 - **Decision-making** (in some circumstances, there may be opportunities to allow for greater flexibility in decision-making)
 - **Overall communication** (use of visuals/graphics and language)

OUR PROCESS

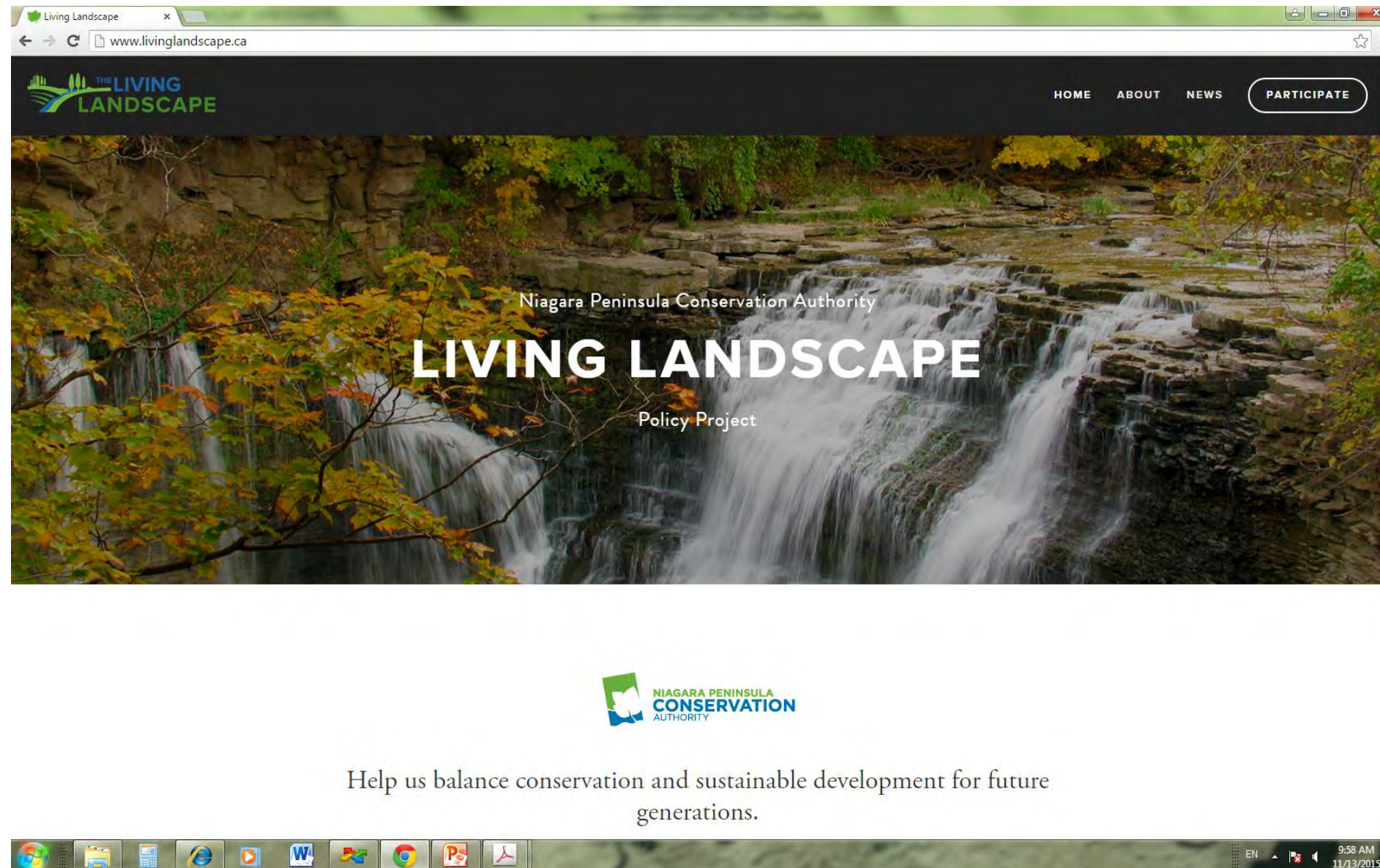


- **PHASE 1:**
 - ✓ Consultation program & work plan finalization
 - ✓ Data collection
 - ✓ Website launch
 - ✓ Project brand development
 - ✓ Formal project launch (NPCA Board, CLAC#1 & Area Planners session)
- **PHASE 2:**
 - ✓ Background review (plans, policies, etc.)
 - ✓ Community Vision survey
 - ✓ Public Roadshow Series #1
 - ✓ Issues and gap policy analysis
 - ✓ Staff workshop
 - ✓ Core Working Group #1
 - Discussion Paper ← *We are here*
 - CLAC #2
- **PHASE 3:**
 - Draft 1 of Policy Document
 - Public Roadshow Series #2 & Open House
 - Series of workshops with agencies and stakeholders (CLAC #3, CWG #2 & 3)
 - Finalization of Policy Document
 - Consultation Report
 - NPCA Board Approval

CONSULTATION



STATUS UPDATE



- Key Activities
 - Project website & brand
 - CLAC Meeting 1
 - Area Planners session
 - Roadshow Series
 - Survey

ROADSHOW SERIES #1



- ✓ Pop-Up Community Consultation Events Completed
- ✓ Approximately 400 Notification Post Cards Distributed
- **October**
 - *41st Annual Balls Falls Thanksgiving Festival*
- **November**
 - *St. Catharines Farmers Market*
 - *Welland Farmers Market*
 - *West Lincoln Arena*
 - *Glanbrook Arena (City of Hamilton)*
- **December**
 - *Vale Health and Wellness Centre (Port Colborne)*
 - *McBain Community Centre (Niagara Falls)*

SURVEY RESULTS

- Conducted an informal on-line survey in late 2015 to get some initial input on issues, opportunities and priorities
- Approximately 120 respondents completed the survey
- Key observations included:
 - Respondents believed that there was strong policy protection for source water areas and floodplains, but less so for valleylands and woodlands
 - 83% of participants responded to being concerned about Climate Change
 - 69% of participants indicated that the NPCA has a role to play in Climate Change

CLAC MEETING

- Key Issues/Opportunities Raised:
 - Desire for more flexibility for Niagara's farming sector to recognize the unique challenges
 - Concerns about “over-regulation”
 - There are a number of unique species in Niagara, as a result of its location within the northern-most Carolinian zone. Niagara has incredible biodiversity which should be protected/maintained

CLAC MEETING

- Key Issues/Opportunities Raised:
 - Niagara has incredible biodiversity which should be protected/maintained (presence in the northern-most Carolinian zone)
 - Niagara has a fragmented urban land supply, which also puts pressure on the Region's rural/agricultural and environmental systems
 - There may be opportunities to explore biodiversity/wetland offsetting
 - There is a lack of education on the definition of wetlands, how wetlands are evaluated and which level of government is responsible for identifying/designating wetlands. This should be clarified through the policy review.
 - There is a need to have robust stakeholder engagement throughout the review process.

STAFF WORKSHOP

- Key Issues/Opportunities Raised:
 - There is a need to identify a clear set of principles and objectives for the Policy Document
 - We should benchmark current policies against other relevant CAs
 - The Document could benefit from an implementation section, which identifies the tools and processes for implementation
 - A number of the various sections require significant revisions to:
 - Align with current provincial policies; and/or
 - Improve the communication/clarity of the policies.
 - The policies should be re-organized to speak to different themes (e.g. floodplains) as opposed to being divided by different legislative requirements

NEXT STEPS

- Finalize draft of the Phase 2 Discussion Paper
- Present key findings to NPCA Board
- Release the Discussion Paper and receive feedback from agencies and the public
- Launch Phase 3 engagement activities



WELLAND RIVER FLOODPLAIN MAPPING UPDATE

**NPCA Board Meeting
March 23, 2016**

OUTLINE

- ① Approach to Town Hall Meetings
- ② Community Consultation Summary
- ③ Next Steps

Approach to Town Hall Meetings



Approach to Town Hall Meetings



Community Consultation Summary

SIGN IN SHEET

Welland River Floodplain Mapping Update
Town Hall Meeting #1 – Wednesday February 3, 2016
Chippawa Willoughby Memorial Arena - 9000 Sodom Road, Niagara Falls

NAME	EMAIL	TELEPHONE	ADDRESS	AFFILIATION
Jim REES	RIDEASOFF	289 241 0286	2504TH MAIN ST	
DAVE FRELAK			CHIPPAWA	
Steven Verzeum	Silvercreek@rogers.com	905 650 3255	81 PARKWAY WILLOW	
Robert West	sonettobrown@gmail.com	905-295-3915	3596 Bond St.	
PRINCEWILL SMITH	kwisprincewillsmith@gmail.com	647-922-7207	8675 Montrose Rd.	
SYLVIA + GARY GRAU	GRAU GARY @ Yahoo	905-382-0282	3233 NIAGARA PKWY	
Nancy #2 John Galtner	info@fotonow.ca	905-295-3561	3505 STANLEY DR.	
Nancy Hadzinski		905 295-3561	Niagara St.	
Dave Playter	dave.playter@gmail.com	905 407 7911	7999 PALLAS ST.	
Bruce Ryan		905-295-6083	8069 LAMONT	
Bill Muileboon	billmuileboon@hotmail.com	905-295-4045	10336 Stanley Ave	
Vivian Lee Strick	vivstobins@gmail.com	905 384 0823	101 Ranby St. Pickering	
MARIO ROBITAILL		289-296-4176	4610 Lynx Parkway	
Alfred Weston	afreze@cogeco.ca	905-295-3381	8671 Banking Ave NW	

Meeting #1: 131

Meeting #2: 104

Meeting #3: 63

Meeting #4: 109

**TOTAL
SIGN-INS: 407**



Community Consultation Summary



Community Consultation Summary

TELL US WHAT YOU THINK

Chippawa is different
from the rest because
of the Hyaco canal!

95

Meeting #1: 60

Meeting #2: 36

Meeting #3: 31

Meeting #4: 50

MORE ABOUT YOU

Name: MIKE DIEKMAN

Email / Phone: 905 714 9911

Feedback on Today's Town Hall Meeting:

HOW WILL ALL OF
THE STORM SEWERS
THAT DISCHARGE INTO
THE WENAND RIVER
BE REFLECTED BY
THE MAPPING PROCESS

WSP | MMM GROUP | NIAGARA PENINSULA CONSERVATION AUTHORITY

**TOTAL
POSTCARDS: 177**

Community Consultation Summary

COMMENT FORM Welland River Floodplain Mapping Update
February 2016

1. What additional information do you need to know about this project?

*Need to know more about plans
to improve health of Welland River.
It adequately addressed such planning
will reduce flooding impacts, such as
increasing forest cover, protect
river channel could be more*




2. What are your top 3 concerns?

*1 bio-diversity,
2 forest protection + enhancement.
3 making channel more capable of
absorbing flood waters & more bio-diverse,*

3. What else can NPCA do to address your concerns about potential impacts of the new floodline mapping?

*maintain bio-diverse. One way would
be retain as more marshes + riparian rice.
Such a change to the channel would
also reduce flooding. I suspect that
this change has not happened
because of potential impact
on recreational boaters.*

CONTACT INFORMATION NAME: *John Bachur*
EMAIL / PHONE: *pals@becn.org*
705-689-434

Meeting #1: 2
Meeting #2: 6
Meeting #3: 2
Meeting #4: 4

**TOTAL
COMMENT
FORMS: 14**

Public Liability **Taxes**

Erosion Control

Property Value Siphons

Remediation **Insurance** Storm Sewer

Biodiversity **Reverse Flow**

OPG Building **Mandate**

Water Quality **Hydro Canal**

Compensation

Development

Community Consultation Summary

EMERGING THEMES

Meeting #1:

- Property Value, Taxes, Insurance
- OPG
- Building regulations in floodplain

Meeting #2:

- Improvement of River's health
- Property Value, Taxes, Insurance
- Infrastructure

Meeting #3:

- Local Context
- Improvement of River's health
- Floodline (existing vs. proposed)

Meeting #4:

- Floodline (existing vs. proposed)
- OPG
- Improvement of River's health

Community Consultation Summary

SAMPLE OF QUESTIONS RAISED

- *What's wrong with the 1985 line? What triggered the review?*
- *How will this study impact my insurance and property value? Will there be tax exemptions?*
- *Are elevations being measured?*
- *How will all of the storm sewers that discharge into the Welland River be reflected in the mapping?*
- *What is the impact of OPG to water levels and sedimentation?*

Next Steps – March 2016

- **Complete the consultation summary report**
 - Circulate to the WFC
 - Circulate to NPCA Board
 - Post on Website
- **Address need for any specific consultation follow up**
 - Specific questions
 - Stakeholders
 - Technical issues/material
- **Preparations for Round #2 Information Sessions**
 - Advertising/mail-out
 - Complete more technical work

Next Steps – Round #2 Information Sessions (May/June 2016)

- Intention is to ensure a shared understanding/awareness of how much water contributes to the 100 year storm event and how much water runs off the land, effecting flooding conditions
 - Technical information will be presented
- Facilitated discussion following the presentation
 - *What is still not understood?*
 - *Any technical information they feel needs to be challenged?*
 - *Confirm the impacts you are concerned about.*
- **Targeting:**
 - May 24th – June 17th

Questions?



Invasive Species and Control

March 16, 2016

Kim Frohlich, Ecologist

Invasive Species Overview

- Background
 - Defined as
 - Concern
 - Example, *Phragmites australis*
 - Control/ Strategies
- Conservation Ontario Initiative
- NPCA Efforts

What is an Invasive Species?

Defined as:

- an exotic, alien, foreign, non-indigenous, or introduced species
- It is a plant, animal or other organisms (i.e. fungi),
- introduced by humans to a particular location outside of its' natural range, and
- perceived to cause damage to the environment, human economy or human health.

Invasive Species Cont'd

- Plants: *Phragmites australis*, Garlic mustard; Purple loosestrife, Buckthorn, Japanese Knotweed, Dog-Strangling Vine, Periwinkle, White Mulberry;
- Fish: Round Goby, Rudd, Eurasian Ruffee, Sea lamprey, Spiny Waterflea;

Invasive Species Cont'd

- Insect: Brown Marmorated Stink Bug; Spotted Wing Drosophila, Asian Longhorned Beetle, Emerald Ash Borer, Gypsy Moth;
- Pathogens: Butternut Canker, American Chestnut Disease, Oak Wilt fungus; White Nose Syndrome, and Chronic Wasting Disease, to name a few.



Purple Loosestrife



Common Buckthorn



Beech Bark Disease



Garlic Mustard



Emerald Ash Borer



Round Goby



Asian Longhorned
Beetle



Gypsy Moth

Invasive Species Concern

- Can threaten biodiversity and effect native species and habitat.
- Result in:
 - direct competition with native populations and ecosystems (plant and/or animals) for light, nutrients and food.
 - can also alter site conditions (i.e. with alleopathic chemicals) preventing native plants from growing there.

Invasive Species- How they Spread

Can Spread by:

- water and wind transportation;
- gravel/road fill;
- garden plantings;
- recreation;
- livestock;
- contaminated seed/mulch or hay; and
- movement of uncleaned equipment

Example: *Phragmites australis*- Invasive Species

- aggressive plant; releases toxins from its roots into the soil to hinder the growth of and kill surrounding plants
- prefers standing water, but has long roots and can survive in relatively dry areas, tapping into further resources



Phragmites australis

Phragmites australis- One Invasive Species

- crowds out native vegetation, resulting in decreased plant biodiversity
- generally provides poor habitat and food supplies for wildlife, including several Species at Risk
- Grows quickly and causes lower water levels as water is transpired faster than native vegetation

Invasive Species Control

Considerations of Invasives:

- extent of an invasive's establishment
- Its' effect on the environment/ ecology/ economy
- Species life cycle
- resources

Invasive Species Control

Five Strategies:

1. Prevention. For species not known to occur in area but likely to establish.
2. Eradication. For species known to occur in limited distribution and low density.
3. Containment. For infestations established in portions of the region/area, where the existing infestation is contained and prevented from spreading to un-infested areas

Invasive Species Control

4. Controlling. Where the established infestation is common and widespread through the region.
 - Control is focused in high value conservation/ habitat areas
 - prevents new invaders from arriving and surviving, slows and where possible reverse the spread of impact of the existing invasive species; and
5. Education. Informing the public of effects, prevention and what they can do. Education and collaboration are key with neighbouring properties, regions, provinces, countries to make it successful.

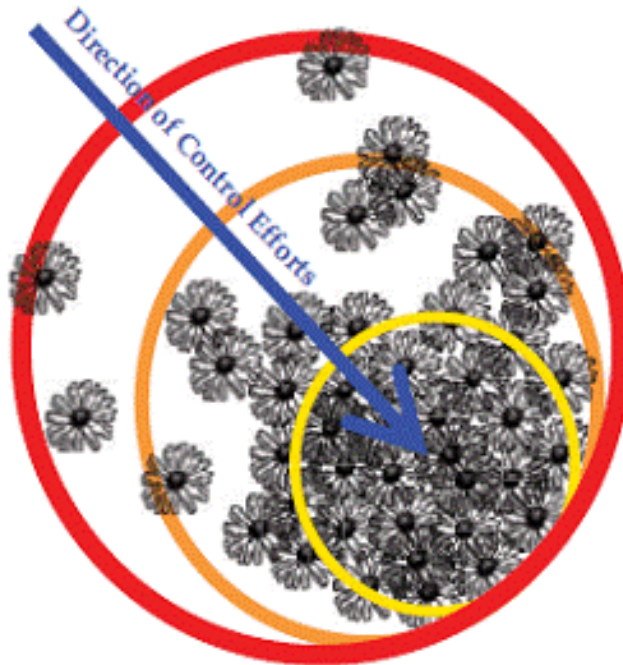
Invasive Species Control

Overall:

- smaller less pervasive populations are the easiest to control (i.e. outliers first, advancing front second, followed by core population).
- an effective strategy balances the ecological impact of allowing the invasive to spread, with the economic reality of the control measure

Strategy

Prioritizing Control Efforts for a Single Species by Density of Infestation



Note: Effective control may require the use of multiple control methods. Control efforts must be followed up by monitoring for new plants, regrowth, and flowering, generally within the same growing season. Monitoring should be done annually.

Outliers – Highest priority

- Lowest density of infestation
- Goal = eliminate small, isolated infestations
- Prevent the reproduction and survival of outliers
- Monitor annually beyond the known infestation for new outliers
- Lowest level of commitment, resources and effort needed

Advancing Front

- Goal = control the advancing front and perimeter of core infestations
- Prevent the expansion of the core infestation

Core – Lower priority

- Highest density of infestation
- Goal = suppress the interior of core infestations
- Highest level of commitment, resources and effort needed

Adapted from work by Fred Clark, Clark Forestry, Inc. and Wisconsin DNR-Urban Forestry

Invasive Species Control

- Conservation Ontario recently requested support of Ontario, to encourage:
 - the establishment of a province wide co-ordinated effort to help control *phragmites australis*,
 - provincial approval of herbicide,
 - aerial treatment, and
 - provincial program assistance (funding and management co-ordination).

Invasive Species- NPCA

- Government/ Other Agencies: provide the control tools, education, funding and chemical options assist NPCA
 - i.e. the federal and provincial government provide legislation, monitoring, research and control information for eradication;
 - Agencies such as 'Ontario's Invading Species Awareness Program', and 'Ontario Plant Invasive Council' provide co-ordination and education of invasive species, their impacts and control measure for consideration.
-

Invasive Species-NPCA (cont'd)

- NPCA supports these initiatives and efforts, to assist in the protection of our native plants and animals.
- Number of Invasives Species:
 - prioritize (plants, animals and other organisms) recognizing control is difficult and costly

Invasive Species-NPCA (cont'd)

- On NPCA lands and in watershed landowner projects,
 - invasive control is completed in:
 - areas of the greatest negative impact (i.e. 'Species at Risk' or sensitive vegetative community affected)
 - where new populations easily controlled
 - assist in research for control (i.e. White Nose Syndrome and Eastern Flowering Dogwood-anthrachnose).
 - education and increase awareness by addressing land uses/ management, habitat destruction to help reducing invasive

Invasive Species-NPCA (cont'd)

Invasive Strategies considers:

- the invasive species life cycle,
- how the species spreads,
- goals and timelines, and
- adjacent coordinated efforts for reducing impacts.

Strategic NPCA Mission

- Assists us in providing communication with the stakeholders and public and address customer and community concerns, as well as supporting the organization's mission, vision and values

Gord Harry Trail- NRWC Section

March 23, 2016

Kim Frohlich, Ecologist



















