Conservation Halton

BOARD OF DIRECTORS MEETING 04 17

MINUTES

A meeting of the Conservation Halton Board of Directors was held on Thursday, May 25, 2017, beginning at 11:30 with a Watershed Tour followed at 4:30 pm in the Kelso Museum building for the Business meeting.

Members Present:	Rob Burton	
	Mike Cluett	
	Joanne DiMaio	
	Cathy Duddeck	
	Rob Duvall	
	Stephen Gilmour	
	Davd Gittings	depart 5:40
	Gord Krantz	depart 6:15
	Bryan Lewis	
	Gerry Smallegange	
	Jim Sweetlove	
	Marianne Meed Ward	
	John Vice	
	Jean Williams	
Absent with Regrets:	Allan Elgar	
	Moya Johnson	
	Sue McFadden	
	Ed Wells	

1. **Acceptance of Agenda as distributed and amended.**

CHBD 04 01	Moved by:	Cathy Duddeck
	Seconded by:	Bryan Lewis

THAT the Conservation Halton Board of Directors **accept the Agenda as distributed and amended.**

Carried

2. **Disclosure of Pecuniary Interest for Board of Directors**

There was no disclosure of pecuniary interest

3.0 **Consent Items**

The Consent Items were approved.

4.0 **Action Items**

4.1 **Budget Variance Report for the period ended March 31, 2017**
Report #: CHBD 04 17 01

CHBD 04 0 Moved by: Jim Sweetlove
Seconded by: Marianne Meed Ward

THAT the Conservation Halton Board of Directors **receive for information the staff report dated May 25, 2017 on the Budget Variance Report for the period ended March 31, 2017;**

AND FURTHER THAT the Conservation Halton Board of Directors **approve the transfer from the Watershed Management and Support Services Stabilization Reserve of $52,153 for the strategic planning software and the Finance function effectiveness assessment expenditures.**

Carried

4.2 **Electronic Commerce Services**
Report #: CHBD 04 17 02

Following further discussion, it was:

CHBD 04 0 Moved by: Marianne Meed Ward
Seconded by: John Vice

THAT the Conservation Halton Board of Directors **approve entering into a formal agreement with Accesso for the provision of electronic commerce services to be funded as noted in the staff report dated May 25, 2017.**

Carried

4.3 **Kelso Dam, Urgent Repair and Rehabilitation Projects**
Prequalification and Tender
Report #: CHBD 04 17 03

Following further discussion, the Recommendation was amended as follows:

CHBD 04 0 Moved by: Gord Krantz
Seconded by: Rob Duvall

THAT the Conservation Halton Board of Directors **award the *Kelso Dam, Urgent Repairs and Rehabilitation Projects* to Dufferin Construction Company at an estimated cost of $3,548,545.00 plus HST and an additional $85,050 plus HST for Optional Items, subject to an actual contract award contingent on National Disaster Mitigation Program (NDMP) funding initiation and subject to receiving approval for all required permits.**

Carried

4.4 **Green Infrastructure Feasibility Study – Administration Building, Kelso CA and Crawford Lake CA Land Holdings**

Report #: CHBD 04 17 04

CHBD 04 0 Moved by: Rob Burton
Seconded by: Jean Williams

THAT the Conservation Halton Board of Directors **direct Conservation Halton to develop a Green Infrastructure Feasibility Study for the Administration Building, Kelso Conservation Area and Crawford Lake Conservation Area that will address stormwater quality and quantity at the lot level that will include specific tasks, who will accomplish them and when they will be implemented, estimated costs and an implementation and monitoring strategy.**

AND FURTHER THAT the **Conservation Halton Board of Directors commit $13,444 of in-kind staffing costs from the existing operating budgets for 2017/18 towards the costs of this initiative.**

AND FURTHER THAT **Conservation Halton staff be supported to work with member municipalities on this initiative to demonstrate municipal commitment.**

Carried

5.0 **Other Business**

Barbara Veale, Director, Planning & Regulations provided a brief update on the changes to the OMB, Coordinated Plan Review and Municipal Act. A more detailed report will be provided at the June Board meeting.

Following further discussion, B. Lewis advised he would ask Halton Hills staff to provide a copy of their Fill Plan Policy to CH.

Mr. Pat Moyle facilitated a strategy session with the Members on the use of Development Contributed Funds for park capital projects.

As a follow up to the Tour, the following links and documents have been provided:

Red Side Dace: https://www.youtube.com/watch?v=vof6LORXpdQ&feature=em-upload_owner

2016 Watershed Stewardship Award winners:
(http://www.conservationhalton.ca/watershed-stewardship-award

Twenty Years of Restoration at Kelso Quarry Park – email attachment
Kelso Quarry Restoration Fact Sheet – email attachment

6.0 **Adjournment**

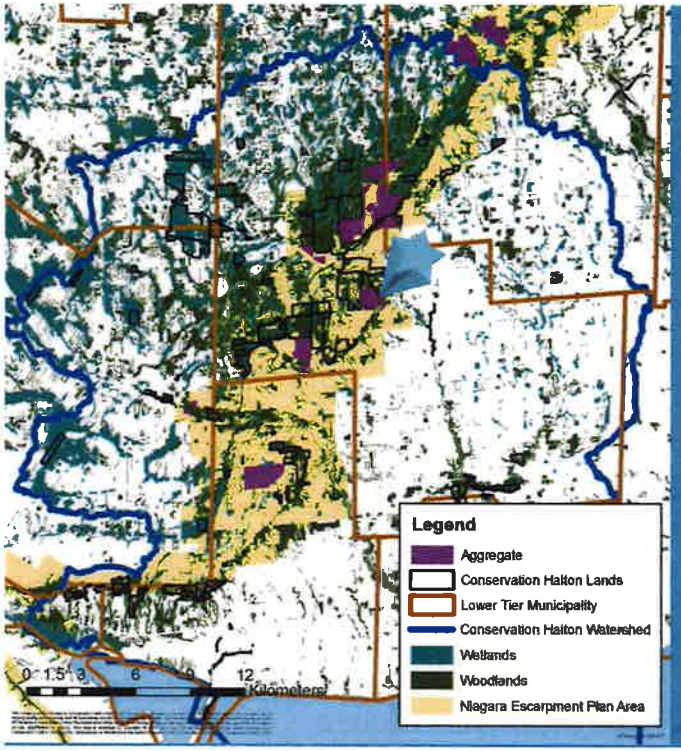
CHBD 04 08 Moved by: Jim Sweetlove

THAT the Conservation Halton Board of Directors **adjourn at 6:35 pm.**

NEXT MEETING: June 22, 2017 @ Kelso Conservation Area, Museum building

Twenty Years of Restoration at Kelso Quarry Park

Nigel Finney
Watershed Restoration Planner
Conservation Halton



Conservation Halton Watershed:

Niagara Escarpment

Mineral Resource Extraction Area


Conservation Halton
Location Map
Kelso Conservation Area / Glen Eden
Figure 1
Kelso CA Boundary
Conservation Halton Lands
Town Of Milton Lands
Country Heritage Agricultural Society Lands
Parking
Fulton Work


Conservation Halton
Kelso Quarry Site
Kelso Conservation Area / Glen Eden
Figure 12
Legend
Infrastructure
Parking
Features

The Milton Limestone Quarry (Barrick Gold Corp.)

Land Use Planning

- Niagara Escarpment Plan Area
- Ontario's Greenbelt

Quarry – Est. 1958, 71 hectares

- Over 40 years of operation
- Construction material for the new provincial Highway 401
- 1 million tonnes of high quality aggregate

Rehabilitation

- 1995 - Conservation Halton partnership regarding future park lands and collaborative rehabilitation plans
- 2001 - Extraction complete
- 2006 – Rehabilitation conditions met
- 2006 - Donated to CH

1980s

Fish Habitat: Developing a Restoration Objective

Biophysical Baseline Conditions

- **Water Clarity**
- **Soil**
- **Water Temperature**
  - Water Temperature: 22.7 °C average
- **Dissolved Oxygen**
  - The lake is supersaturated with oxygen
  - 9.0 milligrams per liter
  - Not be a limiting factor
- **Water Depth**
  - 3 - 5.5 m
- **pH**
  - 7.58 - 8.18
  - Max productivity for fish: 6.5 - 8.5

Fish Community

Existing Aquatic Community

- 426 Fathead Minnows
- 1 Brook Stickleback
- Large Mayfly hatch

Smallmouth Bass Habitat Requirements

- Temperature: 19.4 – 21.7 °C
- Depth at spawning: 0.6 – 6.1 m
- Spawning substrate: Sand, gravel & rock

2015-16 Project Summary

Objective: Enhance fish habitat to help establish a future recreational fishery within Kelso Quarry Lake

- Funded by the Federal Department of Fisheries and Oceans
  - *Recreational Fisheries Conservation Partnership Program*
- 4,000 m^3 of new spawning shoals constructed
- 7 large fish habitat structures
- 6 floating wildlife logs
- Planted vegetation
  - 3500 wetland plants
  - 1000 trees & 1200 shrubs
  - 6 kilograms of tree nuts and wetland seeds

Marsh Planting




Coconut Coir Logs and Fabric

Ensuring Success to Riparian and Wetland Planting

Wildlife Logs

Wildlife Logs

Fish Habitat Structures

Shoal Installation

Shoal Installation

Conservation Halton

Kelso Conservation Area

Quarry Lake Enhancement Project 2015/16

DFO Recreational Fisheries Conservation Partnership Program

Legend

Restoration Features	Shoal Creation
Riparian Forest	Depth in Feet
Emergent Wetland	2
Fish Habitat Structure	4
Wetland Coir Logs	6
Habitat Logs	8
Root Wads	Watercourse

Kelso Quarry Fish Habitat

Since taking ownership in 2006, Conservation Halton has been restoring the landscape of Kelso Quarry Park. Wildlife is already beginning to use the rehabilitated areas of the quarry as a result of initiatives to create new ecosystems. Shorebirds, waterfowl, and raptors, such as greater yellowlegs and American kestrel, are often seen in the quarry taking advantage of these restored habitats.

Fish habitat, incorporating food and shelter, was created by planting a shoreline ecosystem, with species such as bur oak and red osier dogwood, along with marsh plantings of dark green bulrush, water-plantain, and arrowhead.

Stones and logs were also placed along the shoreline of the lake to create ideal conditions for fish to lay eggs and provide protective cover for young fish. Without these additions, the groundwater fed lake would not have suitable habitat for larger fish species to reproduce.

With continued restoration efforts, this lake will provide valuable fish habitat, a great example of rehabilitation, and, in the future, a popular fishing destination.

How can you help?

Participate in restoring native vegetation on shorelines and wetlands which sustain fish habitat. Support organizations like Conservation Halton in their efforts to create and protect local ecosystems.

Fisheries and Oceans Canada
Pêches et Océans Canada
Conservation Halton

Restoration Tour with the
Ontario Stone, Sand & Gravel Association (2016)

Wetland Drawdown & Shoals

Winter Landscape

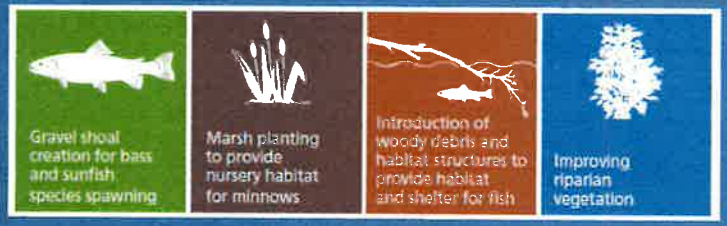
Next Steps

Fish Stocking
- 2016/18 – Trial

Shoal Enhancements
- Evaluation & refinement

Invasive Species Management
- Common Phragmites

Park Master Plan
- 2017-18



Nigel Finney
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Conservation Halton

Kelso Quarry Lake Fish Habitat Creation

Restoration Project Fact Sheet

PROJECT DESCRIPTION:

Kelso Quarry

Since taking ownership in 2006, Conservation Halton has been restoring the landscape of Kelso Quarry Park. Wildlife is already beginning to use the rehabilitated areas of the quarry as a result of initiatives to create new and unique habitats.

Fisheries and Oceans Canada's Recreational Fisheries Conservation Partnerships Program awarded Conservation Halton a grant to enhance fish habitat in 2015-16 to support a future recreational fishery in Kelso Quarry Lake.

The project focused on the following goals:

The enhancement of fish habitat in the quarry lake will ensure there is suitable fish habitat present in the lake for all life stages of the desired sport fish, Smallmouth bass. Shoals have been built for adults to spawn and deposit their eggs upon, a wetland has been enhanced for juvenile rearing, and structures placed in the lake provide cover for all life stages of fish throughout the lake. The lake will be stocked with fish in the future and the enhanced fish habitat will help maintain a sustainable fish population that can be angled.

Smallmouth Bass

Conservation Halton

LOCATION

North of Steeles Avenue West, in Milton

WATERSHEDS

Sixteen Mile Creek Watershed

PROJECT TIMELINE

2015–present

SIGNIFICANT FEATURES

In 2016 1480m^2 of fish spawning area was created

PROJECT STATUS

The initial phase of the project is complete although opportunities for enhancement still exist.

NEXT STEPS

- Shoal Evaluation and Refinement
- Smallmouth Bass Stocking
- Invasive Species Management

FUNDING PARTNERS

- Conservation Halton
- Fisheries and Oceans Canada
- Kelso Glen Eden Conservation Area

PROJECT HIGHLIGHTS

To create fish habitat that provides food and shelter, this project planted a shoreline ecosystem with species such as bur oak and red osier dogwood, along with marsh plantings of dark green bulrush and buttonbush shrubs. In total over 5,700 trees and plants were planted in Kelso Quarry Park.

Stones and tree logs have been placed throughout the lake to create ideal conditions for fish to lay eggs. Smallmouth bass redds, otherwise known as nests, can be found up to 6.5 m deep but preferred depth is 30-90 cm from water's surface. Without these stone additions, the groundwater fed lake would be too deep for fish to reproduce. Around 1500 m^2 of fish spawning area was created while there was an addition of 13 habitat structures and wildlife logs to the lake to provide cover to fish and perches for birds.

13 habitat structures were created

Clockwise from top: Common Arrowhead, Wool (Sedge) Grass and Buttonbush

Diagram of shoal structure

VOLUNTEERS

This significant undertaking would not have been possible without the dedicated work of community residents. Volunteers came out from community members, Halton Sportsmen's Association, Niagara College, and Field and Stream Rescue Team. Participants gained hands on experience with this environmental stewardship initiative by building habitat structures and planting vegetation. Engagement in these projects not only educates participants but also encourages them to become ambassadors for healthy watersheds and natural areas.

Mother and son tree planting

THE BIG PICTURE

This project is a good example of how former aggregate lands can be restored to provide enhanced natural spaces. These restored natural spaces can offer many ecological benefits to the environment and many uses to local community members.

FUTURE PUBLIC ACCESS

With continued restoration efforts, this lake will provide valuable fish habitat and will provide a great example of rehabilitation. This will set the stage for the land to become a spectacular regional escarpment park

HOW CAN YOU HELP?

Participate in restoring native vegetation on shorelines and wetlands which sustain fish habitat. Support organizations like Conservation Halton in their efforts to create and protect local ecosystems.

FUNDING PARTNERS

This project was generously funded through the Recreational Fisheries Conservation Partnerships Program supported by Fisheries and Oceans Canada.

Fisheries and Oceans Canada Pêches et Océans Canada

Conservation Halton