



THE TORONTO AND REGION CONSERVATION AUTHORITY

**MEETING OF THE WATERSHED MANAGEMENT ADVISORY BOARD #1/03  
April 11, 2003**

**The Watershed Management Advisory Board Meeting #1/03, was held in the South Theatre, Black Creek Pioneer Village, on Friday, April 11, 2003. The Chair Ian Sinclair, called the meeting to order at 10:08 a.m.**

**PRESENT**

Ila Bossons	Member
Cliff Gyles	Member
Anthony Ketchum	Member
Joe Pantalone	Member
Dave Ryan	Member
Frank Scarpitti	Member
Ian Sinclair	Member
Tanny Wells	Member

**REGRETS**

Lorna Bissell	Vice Chair
Irene Jones	Chair
Pam McConnell	Member
Jim McMaster	Member
Dick O'Brien	Chair, Authority

**RES.#D1/03 - MINUTES**

Moved by: Cliff Gyles  
Seconded by: Anthony Ketchum

**THAT the Minutes of Meeting #7/02, held on February 14, 2003, be approved.**

**CARRIED**

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**BUSINESS ARISING FROM THE MINUTES**

**RES.#D2/03 - PROPOSED HIGHWAY #427 EXTENSION**

Moved by: Joe Pantalone  
Seconded by: Ila Bossons

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT staff report back at Watershed Management Advisory Board Meeting #2/02, to be held on June 13, 2003, on what TRCA's policies and requirements are for restoration works along highways and other major road systems, and on our naturalization objectives for new and proposed transportation corridors.**

**CARRIED**

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**PRESENTATIONS**

**(a)** A presentation by Robert (Bob) Metcalfe, Member, International St. Lawrence River Board of Control, in regards to Lake level conditions and Regulation Strategy, 2003.

**RES.#D3/03 - PRESENTATIONS**

Moved by: Dave Ryan  
Seconded by: Anthony Ketchum

**THAT above-noted presentation (a) be heard and received.**

**CARRIED**

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**SECTION I - ITEMS FOR AUTHORITY ACTION**

**RES.#D4/03 - 2003 PEEL, YORK, DURHAM, AND TORONTO CAPITAL PROJECTS**  
Endorsement of the 2003 Peel, York and Toronto Capital Projects.

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the 2003 Peel, York, Durham, and Toronto Capital Projects, be endorsed.**

**CARRIED**

**BACKGROUND**

Over the last several years, the Regions of Peel, York, and Durham, and the City of Toronto have been providing capital funding to assist with the implementation of environmental rehabilitation, stewardship and infrastructure projects.

In 2002, an even more comprehensive budget was prepared for the Regions of Peel, York, and Durham, and the City of Toronto to help deal with the preparation of Watershed Management Plans and Source Protection Plans, as required by the Oak Ridges Moraine Conservation Plan and Walkerton Inquiry recommendations.

Over the course of developing the capital project proposals, staff has met with municipal staff to discuss previous years' accomplishments and to confirm projects and associated budgets for 2003. The City of Toronto and the Regions of Peel and York have recently confirmed their funding allocations for the agreed-upon priority projects. Approval of the Durham capital budget is expected in the very near future.

The following table lists the projects and allocated budgets:

Project	Peel	Durham	York	Toronto	Total
<b>Watershed Report Cards Strategy Implementation</b>	50.0	85.0		100.0	235.0
<b>Surface Water Quantity</b> hydrology; hydraulic; floodplain base map; flood/fill lines	50.0	65.0	150.0	180.0	445.0
Stream Gauging - Duffins and Carruthers Creeks		25.0			25.0
Low Flow flow distribution database; baseflow mapping; baseflow inventory; SWM criteria; map updates	38.0		38.0	35.0	111.0
Fluvial Geomorphology Erosion/Sediment Control Study	55.0			10.0	65.0
Water Budgets HSPF Analysis	60.0		80.0	60.0 93.0	200.0 93.0
<b>Surface Water Quality</b> Rural Water Quality	60.0		20.0	25.0	105.0
<b>Groundwater Quantity</b> Water Use Inventory PTTW Assessment	8.0		7.5	7.0	22.5
Groundwater Model	50.0		20.0	60.0	130.0
Humber Groundwater Model	15.0				15.0
Y-P-D Groundwater Strategy	100.0	100.0	100.0	100.0	400.0
<b>Groundwater Quality</b> Source Protection Plans		15.0	35.0		50.0
<b>Aquatic Habitat &amp; Species</b> Riparian Zones	40.0				40.0
Condition of Communities	20.0				20.0
Thermal Conditions of Stream Habitat	30.0		30.0		60.0
Aquatic Fish Plans	45.0	15.0	25.0	35.0	120.0

Land Use Impact Model; Aquatic Impact	15.0		15.0		30.0
<b>Terrestrial Habitat &amp; Species</b>					
Terrestrial Natural Heritage	75.0	10.0	50.0	75.0	210.0
Identify Sites/Wetland Creation	20.0		25.0		45.0
<b>Regional Monitoring Program</b>					
Watershed Monitoring Network	200.0	50.0	200.0	200.0	650.0
Waterfront Monitoring		10.0			10.0
<b>Subwatershed Plans</b>					
Subwatershed Planning & Integration	100.0				100.0
Terrestrial Component of Subwatershed Planning	130.0				130.0
<b>Conservation Land Management</b>	50.0				50.0
<b>Stewardship</b>					
RAP/Natural Heritage Restoration #1	400.0		200.0	433.0	1,033,000
Stewardship	35.0		17.5	30.0	82.5
Outreach Education	30.0		17.0	35.0	82.0
Business Outreach	10.0				10.0
Living City Centre				50.0	50.0
<b>Infrastructure</b>					
Info Technology	30.1	8.3	48.3	188.0	274.7
Public Use Infrastructure	30.1	8.3	48.3	188.0	274.7
Major Facilities Retrofit	46.5	12.9	74.6	291.0	425.0
CA Campgrounds/Pool	250.0				250.0
Chlorination Systems/Drinking Water System Upgrades	80.0		34.8		114.8
Washroom Upgrades	96.0				96.0
<b>Total</b>	<b>2,218.7</b>	<b>404.5</b>	<b>1,236.0</b>	<b>2,195.0</b>	<b>6,054.2</b>

The City of Toronto and Peel, York, and Durham Region capital projects were developed to integrate and expand joint environmental initiatives so that municipalities and TRCA will be better positioned to meet their respective goals, objectives, strategic directions and priority actions.

## **DETAILS OF WORK TO BE DONE**

- finalize approvals for specific projects;
- seek additional partners and other funding sources to complement the municipal contributions;
- prepare mid-year and final progress reports for all projects and present to staff at the City of Toronto and Peel, York, and Durham Regions.
- prepare updated five-year budget forecasts and present to municipalities

**Report prepared by: Gary Wilkins, extension 5211**

**For Information contact: Gary Wilkins, extension 5211**

**Date: April 1, 2003**

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### **RES.#D5/03 -**

#### **OFFICIAL PLAN AMENDMENT 124/161 ENVIRONMENTAL/AGGREGATE POLICIES**

Town of Caledon, Region of Peel. Participation by TRCA at the Ontario Municipal Board. Request for support of Settlement Proposals related to the appeals of Official Plan Amendments 124/161, the Environmental and Aggregate policies for the Town of Caledon currently before the Ontario Municipal Board.

Moved by: Ila Bossons  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT as a Participant, the TRCA advises the Ontario Municipal Board and the Town of Caledon that the TRCA endorses the OPA 124 Settlement Proposal based on the settlement of March 26, 2003, as it satisfies the Authority's interests in the Hearing related to the Town of Caledon Official Plan Amendment 124 (Environmental policies) and 161 (Aggregate policies);**

**AND FURTHER THAT staff be directed to monitor any further revisions that are negotiated through the settlement process.**

**CARRIED**

### **BACKGROUND**

The Town of Caledon's environmental policies are set out in Official Plan Amendment 124, which was adopted by the Town in the early 1990's. A portion of OPA 124, as it applies to designated settlement areas within the Town of Caledon, was approved by the Ontario Municipal Board on July 1, 1997. Official Plan Amendment 161, the Aggregate policies, were adopted by the Town of Caledon on March 7, 2000. This amendment was appealed to the Ontario Municipal Board. At a Prehearing on August 3, 2000, the OMB issued a provisional order for the consolidation of the remaining portion of OPA 124 and OPA 161. The Hearing has been scheduled in two phases with Phase 1 dealing with the overall policies of both the Aggregate and Environmental Policies. Phase 2 pertains to site specific applications, all of which are within the Credit Valley Conservation Authority's watershed. The CVC has Party status in Phase 2 of the Hearing.

Staff have been directed by the Authority to maintain Participant status on the appeals of OPA 124/161 through Resolution #D66/00:

*"THE WATERSHED MANAGEMENT ADVISORY BOARD RECOMMENDS TO THE AUTHORITY staff be authorized to seek participant status before the Ontario Municipal Board related to a hearing on the Town of Caledon Official Plan Amendment 124 (Environmental policies) and 161 (Aggregate policies)."*

The TRCA's role in the OMB proceedings to date has been that of support and assistance to the Town of Caledon. Authority staff commented on both Official Plan Amendment 124 and 161 and indicated our support of the environmental protection policies within the Amendments at the time of their approval by the municipality. The Environmental policies set out an eco-system planning and management approach with an emphasis not only on the protection of the ecosystem but also the enhancement and restoration of the ecosystem. The policies deal with the ecosystem as a whole and recognize the interdependence between the various features and functions. The Ecosystem Framework identifies four components: Natural Core Areas; Natural Corridors, which are designated as Environmental Policy Area, and the Supportive Natural Systems; and Natural Linkages. The Aggregate policies also incorporate the Ecosystem Planning and Management Objectives in balancing the aggregate resource areas within the Town.

**OPA 124 (Environmental Policies) Settlement Proposal:** Over the course of the last year, the TRCA and Credit Valley Conservation (CVC) have been consulted in the process of the settlement discussions between the Town of Caledon and the Aggregate Producers Association of Ontario (APAO) with respect to the APAO appeal of OPA 124. The TRCA's participation in this process included a detailed peer review of the Town's technical review of all EPA designations that overlap with High Potential Mineral Aggregate Resource Area (HPMARA) as shown in the Region of Peel Official Plan in order to confirm and/or identify modifications to the EPA designations in these areas. The TRCA provided updated TRCA mapping to the Town for purposes of this review exercise and to assist with any revisions to the Official Plan schedules. In addition, TRCA had the opportunity to provide input on the proposed policy modifications that form part of the Settlement proposal.

Under OPA 161, new or expanded mineral extraction is prohibited in the Core Areas of the Greenland System in Peel designation in the Region of Peel Official Plan, the EPA designations in the Town of Caledon Official Plan, natural lakes and their shorelines and kettle lakes and their catchments with catchments being defined as lands adjacent to kettle lakes that due to their topography and/or geology, provide surface and/or groundwater contributions to the lake that are necessary to maintain the lake's ecological functions, attributes and features. The key components of the additional policies to OPA 161 that will be added through the OPA 124 Settlement are summarized as follows:

- policies and performance measures for mineral aggregate operations proposed adjacent or within areas that do not meet the above noted exclusionary criteria (valley and stream corridors less than 125 ha, other wetlands (not evaluated), other woodlands (not core), groundwater recharge and discharge areas, potential ESA's. These areas are essentially the headwater areas in the municipality.

- the performance measures include an assessment of the ecological attributes, functions and linkages to ensure that it does not satisfy any of the criteria of designation as Core Area; that significant attributes, functions and linkages will either be maintained or replaced with an equal amount or net gain in progressive rehabilitation; that alteration or elimination will not result in any immediate or longer term negative impacts on the adjacent Core Areas or the Environmental Policy Areas; and the quality, quantity and location of the aggregate resource warrant the alteration or elimination of the feature.
- a policy committing the Town to undertake a Woodlands Policy Review and that implementation of this review may result in the adoption of revisions to the provisions of OPA 161 as it relates to woodlands.
- through these policies and Part C of the Settlement Agreement, wetlands evaluated as locally significant on or before the date of the Settlement are excluded from aggregate extraction.
- clarification of interpreting "negative impacts"; relates to any loss in area or loss of significant ecological function or attributes of Core Area or EPA areas.
- a policy that where a subwatershed study or comprehensive, broader scale environmental study has been completed, the recommendations of these studies will be implemented in the context of the performance measures in considering mineral aggregate extraction operations.

**OPA 161 (Aggregate Policies) Settlement Proposal:**

To date, the CVC has led the negotiations on behalf of both Conservation Authorities for all other settlements related to OPA 161. It had been previously agreed between staff of the TRCA and CVC that given their interests in Phase 2 of the Hearing, the CVC would be the lead agency. CVC staff have kept TRCA staff informed of these negotiations and are satisfied that our interests are protected in the current Settlement Proposal.

CVC staff are also in the process of preparing a similar report for their Board of Directors on the OPA 124 and 161 Settlement Proposals with a recommendation for endorsement

**Report prepared by: Laurie Nelson, extension 5281**  
**For Information contact: Laurie Nelson, extension 5281**  
**Date: March 31, 2003**

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**RES.#D6/03 -**

**OAK RIDGES MORAINÉ CONSERVATION PLAN IMPLEMENTATION UPDATE**

To update the Board regarding the involvement of TRCA and the Conservation Authorities Moraine Coalition in the implementation of the Oak Ridges Moraine Conservation Plan.

Moved by: Dave Ryan  
 Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the report on the activities of the TRCA and Conservation Authorities Moraine Coalition regarding implementation of the Oak Ridges Moraine Conservation Plan be received.**

**CARRIED**

## **BACKGROUND**

The Oak Ridges Moraine Conservation Plan (ORMCP) was released publicly and filed as a Minister's regulation (O. Reg. 140/02) almost one year ago on April 22, 2002. Since that time the TRCA, individually and through the Conservation Authorities Moraine Coalition (CAMC), has been involved in a variety of implementation issues and projects on the Oak Ridges Moraine. This report provides details of conservation authority involvement in these activities including municipal official plan and zoning by-law conformity exercises, the development of Provincial ORMCP guidelines, updating of the Plan Review agreements with our Regional partners, undertaking of watershed plans and groundwater studies, the submission of a stewardship proposal to the ORM Foundation and the organisation of a symposium to celebrate the one year anniversary of the ORMCP.

### **Municipal Official Plan and Zoning By-law Conformity**

Several requirements of the ORMCP have specific timelines associated with them. The Regions of York, Peel and Durham (YPD) are required to amend their official plans in conformity with the ORMCP within one year. Development Services staff have been involved in the review and/or formulation of the three Regional amendments. Staff provided comments on several draft amendments by York and Durham prior to their recent adoption by Councils. TRCA staff was invited to play a more active role in the Peel process and participated on a technical working committee comprised of staff from Peel, Caledon, CVC and TRCA, reviewed and commented on draft amendments and attended at two public meetings. The amendments have now been adopted by Regional Councils and forwarded to the Minister of Municipal Affairs and Housing (MMAH) for approval. Staff anticipate that the local municipal official plan and zoning by-law conformity amendments will be similarly circulated for review. The Town of Caledon has followed Peel's lead and invited authority staff to help steer the process and formulate the amendments through our participation on a technical working committee.

### **Provincial Guidelines and Other Initiatives**

The Ministry of Natural Resources (MNR) is developing eight technical guidelines to provide advice on implementing the ORMCP. Through the CAMC, various TRCA staff members have reviewed the draft guidelines, provided input at several peer review committee meetings and submitted detailed written comments. The guidelines are currently being finalised internally at MNR prior to being posted on the Environmental Bill of Rights Registry for public consultation.

The Ministry of Environment (MOE) is also producing ten guidelines to assist with ORMCP implementation. The CAMC has been contracted by the MOE to produce one guideline for preparing water budgets and has been invited to sit on a peer review committee to review and provide comments on drafts of the remaining guidelines.

MMAH is formulating a further regulation under the ORMC Act which will provide guidance to municipalities and require them to adopt tree preservation and site alteration by-laws for the ORM. Through the CAMC, staff of several conservation authorities, including TRCA, have been active on the technical working committee to research and formulate the required documents.

### **Updating of Plan Review and Technical Clearance Protocols**

This partnership agreement with each of the YPD Regions was initiated in 1997 to respond to the provincial transfer to municipalities of various planning responsibilities. The agreement set out clearly defined roles and responsibilities and established streamlining protocols for each agency in the development review process. The agreement between Peel, CVC and TRCA has been recently updated to incorporate new requirements from the ORMCP and other initiatives. Staff reported to the WMAB on this update at meeting #7/02 in a report dated February 14, 2003. As identified in that report, the update to the agreement with Peel has been completed and a similar process has now begun to update the agreement with Lake Simcoe Region CA (LSRCA), TRCA and York Region. Central Lake Ontario CA will soon lead the process to update the agreement with the five CAs in Durham Region, including TRCA.

In addition to updating the agreements with the Regions, staff have also been seeking to clarify planning roles and responsibilities for ORMCP implementation with our local municipal partners. TRCA staff have held several meetings in this regard with Town of Caledon staff and will be meeting with Richmond Hill planning staff soon to ensure a coordinated and streamlined approach to processing planning applications on the ORM is achieved.

### **Watershed Plans, Water Budgets and Conservation Plans**

The ORMCP contains a requirement that watershed plans, water budgets and conservation plans for all watersheds whose streams originate on the Oak Ridges Moraine must be commenced within one year (by April 22, 2003). Further, these plans must be completed and relevant results incorporated into municipal official plans within five years or major development will not be permitted (two years for lands served by the Yonge Street aquifer). Through the CAMC a detailed list of the component requirements of a watershed plan has been developed and completion status tables drafted for each ORM watershed. (Watershed plan requirements are subject to change depending on the contents of MOE guidelines). The individual CAs within the CAMC are working with their municipal partners to ensure the appropriate studies are being undertaken to meet the requirements of both the ORMCP and the specific needs of the watershed, given the relative development pressures within each municipality and watershed. TRCA watersheds rising from the ORM include the Humber, Don, Rouge and Duffins. The completion status tables drafted for each of these watersheds shows that watershed plans have been commenced in all four watersheds and that they are most advanced, indeed nearly complete, in the Duffins. A subwatershed study is currently being undertaken on Centreville Creek (Humber subwatershed) in Peel/Caledon. TRCA, LSRCA and York Region staff are currently completing a work plan to ensure the ORMCP watershed planning requirements will be budgeted for and completed within the prescribed timelines.

### **YPD Groundwater Studies**

The York, Peel, Durham groundwater studies project was initiated in 2000 in partnership with the City of Toronto and the six conservation authorities within the YPD Regions. This project has been the subject of several reports to the Board/Executive/Authority with the most recent report being at Meeting #1/03 of the Executive Committee on March 7, 2003. Although broader than the ORM, many aspects of this project are directly related to the ORM and will be instrumental in fulfilling certain requirements for watershed plans and water budgets. Specific project components relevant to the ORM include the development of a standardised methodology for delineating and mapping ORM hummocky topography, geophysical logging of boreholes, updating water well records, the development of a comprehensive database for hydrogeological and geophysical data, groundwater modeling studies and a baseflow monitoring program.

### **Stewardship Proposal to the ORM Foundation**

The CAMC, in conjunction with Ontario Stewardship and Wildlife Habitat Canada, recently submitted a two-part funding proposal to the Oak Ridges Moraine Foundation (ORMF). The ORMF was established by the Province and endowed with \$15 million to help preserve, protect and restore the environmental integrity of the ORM. The formulation of a Stewardship strategy and the funding of stewardship projects is one of the objects of the Foundation. The CAMC and its two partners, under the umbrella of the ORM Stewardship Partners Alliance, submitted a two-part proposal to request funding to formulate the stewardship strategy for the Foundation and to carry out eleven on-the-ground stewardship projects in 2003. Two of the projects submitted are within TRCA watersheds: Preston Lake shoreline restoration and completion of the rehabilitation of the former Timber Brothers aggregate pit. A decision by the Foundation on this proposal is expected by mid May.

### **ORM Symposium**

The CAMC, in conjunction with several partners, is presenting a Symposium on May 1, 2003 titled One Year Later - Perspectives on the ORM Conservation Plan, to be held at Seneca College, King Campus. The purpose of the event is to share experiences on ORMCP implementation with a view to improving and strengthening the Plan implementation, as appropriate, to ensure continued broad public support for and recognition of the environmental importance of the Oak Ridges Moraine. A diverse array of speakers, including municipal, private sector, conservation authority, provincial and NGO representatives will present their perspectives and experiences, highlighting case studies and emerging best practices. The Symposium notice and registration form is appended.

**Report prepared by: David Burnett, extension 5361**

**For Information contact: David Burnett, extension 5361**

**Date: April 01, 2003**

**Attachments: 1**

## Attachment 1



Credit Valley Conservation  
Nottawasaga Valley Conservation  
Toronto and Region Conservation  
Lake Simcoe Region Conservation  
Central Lake Ontario Conservation  
Kawartha Conservation  
Ganaraska Region Conservation  
Otonabee Conservation  
Lower Trent Conservation

# One Year Later - Perspectives On The Oak Ridges Moraine Conservation Plan

Thursday, May 1, 2003  
9:00 a.m. – 4:00 p.m.  
King Campus, Seneca College

**Since 2001, articles on the Oak Ridges Moraine have frequently appeared in the headlines. The Oak Ridges Moraine Conservation Plan was introduced in April 2002 to largely positive accolades. The moraine fell off the public radar screen a short time later. The ORM Conservation Plan, depending on one's perspective, provided exciting new opportunities to be seized or onerous restrictions and new requirements to be undertaken -- several with an associated one-year time frame.**

Presented by the Conservation Authorities Moraine Coalition in partnership with Seneca College, the International Association of Hydrogeologists and the Canadian Water Resources Association, this one-day symposium will be of interest to municipal and conservation authority planners and technical staffs, provincial ORM staff, water resources planners, environmental consultants and the NGO environmental community. A diverse array of speakers will present their perspectives and experiences regarding the implementation and effectiveness of the ORM Conservation Plan to date. Examples, case studies, emerging best practices and topics to be presented include:

**Watershed Plans and Groundwater Studies  
Regional OP Conformity Amendments  
Local OP and Zoning By-law Conformity Pilot Project  
Follow Up Provincial Initiatives  
Oak Ridges Moraine Foundation  
Private Sector Perspectives  
MOE Guidelines Update  
Municipal and Conservation Authority Implementation Experience  
Non-Governmental Conservation and Trails Organizations  
Display Booths, Q & A Discussion Forum**

During lunch break enjoy the scenic trails and wetlands on the Seneca grounds and the view of the historic Eaton Hall across the kettle lake. A detailed schedule of speakers and map directions to Seneca will be emailed to registrants. Proceeds of the symposium will go towards ORM land stewardship, securement and educational initiatives.

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email: [dburnett@trca.on.ca](mailto:dburnett@trca.on.ca)



## ORM Symposium Registration

The "early bird" cost of this symposium is **\$50.00 per person (if you register by April 4, 2003) or \$65.00 per person after April 4th**. The fee includes lunch and breaks and a handout package.

For more information, please contact David Burnett at TRCA 416-661-6600, ext. 5361.

**To Register:** Please complete this form (please print) and submit with cheque or money order payable to "LSRCA" to the following address:

**By Mail:** Attn: Sandra Hanson  
Lake Simcoe Region Conservation Authority  
Box 282, Newmarket, ON, L3Y 4X1

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Business Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Fax: \_\_\_\_\_ Email: \_\_\_\_\_

With which organization are you affiliated? \_\_\_\_\_

**If you prefer to pay by credit card, please provide the following authorization information and FAX this form to (905) 853-5881, attention Sandra Hanson:**

VISA:

Cardholder Name: \_\_\_\_\_

Card #: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



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**RES.#D7/03 -**

**KROSNO CREEK PRELIMINARY STORMWATER MANAGEMENT STRATEGY**

To support and participate in the implementation of the recommendations of the Krosno Creek Preliminary Stormwater Management Strategy.

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the Krosno Creek Preliminary Stormwater Retrofit Study be received;**

**THAT the Authority support the recommendations of the study;**

**AND FURTHER THAT staff be directed to continue working with the City of Pickering to facilitate implementation of the recommendations.**

**CARRIED**

**BACKGROUND**

The Krosno Creek tributary is located within the City of Pickering. The watershed drains an area of approximately 6.5 km<sup>2</sup>, ultimately outletting to Frenchman's Bay at Liverpool Road. Urban development within the Krosno Creek Watershed began in the early 1960s with the construction of the first planned communities such as the Bay Ridges area located south of Bayly Street, between Frenchman's Bay and the Hydro Corridor to the east. With the construction of new and improved transportation networks (Highway 401, GO-Transit etc.) a rapid increase in urbanization occurred which included the Liverpool and Town Centre Neighbourhoods north of Highway 401 and Brock Industrial Development to the east. As a result, the existing watershed has become almost completely urbanized.

In the early 1980's the City of Pickering prepared a Master Drainage Study (MDP) to provide a town-wide strategy to address flooding and erosion. The study resulted in the adoption of urban drainage policies to guide future development in the areas of pollution control, major/minor system drainage, subdivision planning and sediment and erosion control. Given that a majority of urban development within the Krosno Creek Watershed preceded the completion of the MDP, implementation of the recommendations were limited. The absence of stormwater controls within the Krosno Creek Watershed, has resulted in the existing flooding situation, streambank erosion and degradation of water quality within the creek and within the downstream receiving Hydro Marsh and Frenchman's Bay. Two studies were undertaken to address the flooding problems and the streambank erosion and water quality issues; the *Krosno Creek Floodplain Mapping Study* and the *Krosno Creek Preliminary Stormwater Management Strategy*.

Upon request from the City of Pickering, the Toronto and Region Conservation Authority (TRCA) was commissioned to undertake a floodplain mapping study for the Krosno Creek watershed. The purpose of the study was to define the Regional Floodline and to identify flood hazard areas associated with Krosno Creek. A key recommendation of the *Krosno Creek Floodplain Mapping Study* included:

- A full Environmental Assessment be carried out to assess a number of alternative flood remediation strategies (i.e. diversions, stormwater controls, channel improvements) to alleviate or eliminate the existing flooding problem in the watershed.

The *Krosno Creek Preliminary Stormwater Management Strategy* was commissioned by the City of Pickering and Ontario Power Generation in response to the recommendations identified within the Biodiversity Study and Natural Areas Management Plan completed by The Ontario Power Generation (OPG) - Pickering Nuclear Site. The OPG report identified six goals which addressed the need for environmental enhancement and improvements, effective environmental monitoring and community involvement and education. In addition, in 1997, Mayor Arthur's Task Force on the Pickering Waterfront published *Waterfront 2001*. This document provided an in-depth vision of the evolution of Pickering's waterfront and outlined impacts to local watercourses and the Frenchman's Bay ecosystem as a result of urban development initiated in the 1960's and 70's. The document also described the need for more stringent regulations and greater public awareness regarding stormwater management issues. Recommendations of this study included the need for a watershed management plan given that the viability of Frenchman's Bay and associated watercourses are dictated by urban activities within the contributing watershed areas.

### **Purpose of the Study**

The purpose of the *Krosno Creek Preliminary Stormwater Management Strategy* was to develop a set of erosion and water quality remediation strategies for the Krosno Creek Watershed building upon the findings and recommendations outlined in the OPG and in the Mayor's Task Force studies. The Stormwater Management Strategy was divided into the following three components: Stormwater Management, Natural Feature Restoration and Enhancement, and Watershed Monitoring.

## **CONCLUSIONS & RECOMMENDATIONS**

### Recommended Stormwater Management Strategy

Based on the results of the study, end-of-pipe stormwater management facilities complemented with a series of lot level and conveyance SWMPs were recommended as the primary means to mitigate surface water related impacts from existing and proposed urban development.

Key recommendations of the strategy include:

- < Implementation of Level 1 water quality control (80% Total Suspended Solids removal based on Ministry of the Environment Guidelines) and a minimum of 25 mm -24 hour detention for erosion control (or more appropriate erosion control as determined through a detailed erosion analysis) for all new development, or redevelopment, applications to the extent practical.
- < Initiation of a full environmental assessment to address the water quantity/flooding component (results of this assessment will be used to update the current water quantity criteria within the watershed which currently is 2 through 100 year, post- to pre-development control).

- < Implementation of a select group of stormwater management practices that are recommended within specific areas of the watershed to mitigate water quality and erosion impacts to surface runoff from existing and proposed urban development.
- < The City of Pickering adopt new policies that support alternative conveyance measures and alternative development standards.
- < Detailed assessment and associated design of four, new end-of-pipe stormwater management facilities. Preliminary target levels, treatment and control requirements, available volumes, area requirements and preliminary costs were developed for the proposed facilities.
- < Adoption of a stormwater fee-in-lieu policy to address special situations where it has been demonstrated that it is impractical to meet the required stormwater criteria.
- < Implementation of a number of local stewardship programs to promote public awareness and participation in environmental projects. Recommended activities include a down spout disconnection program, demonstration projects, a hands-on watershed monitoring program for watershed residents and continuation of the *Yellow Fish and Aquatic Plants Program*.
- < Recommendations to undertake regular inspection of the channel and culvert crossings, within the watershed, as a preventative measure to reduce erosion, structural and flood impacts resulting from debris accumulation and culvert blockages.

#### Recommended Natural Feature Restoration and Enhancement Strategy

- < Culvert replacement in location of existing sanitary sewer to facilitate fish passage and to improve hydraulic conditions.
- < Implementation of restoration measures to improve natural stream cover and to achieve a continuous linkage between the Hydro Marsh and the hydro transmission easement.
- < Enhancements to the Hydro Marsh and adjacent park lands to increase the size, biodiversity and buffer distances.

#### Recommended Watershed Monitoring Strategy

- < Continuation of rainfall and stream flow monitoring at existing locations to assist with future study requirements.
- < Initiation of water quality monitoring within the watershed. Results to be integrated with monitoring programs within the Hydro Marsh and Frenchman's Bay areas.
- < Initiation of fluvial geomorphic assessments to record observations of streambank erosion conditions, debris accumulation or blockages, general water quality characteristics and the presence of fish or wildlife.

**DETAILS OF WORK TO BE DONE**

TRCA staff will continue to work with City of Pickering staff to implement the recommendations of the study.

**For information contact: Glenn MacMillan, extension 5212  
Marilee Gadzovski, extension 5362**

**Date: March 31, 2003**

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**RES.#D8/03 - ORGANIZING INTER-REGIONAL STORMWATER MANAGEMENT WORKSHOPS**

To organize a series of Inter-Regional Stormwater Management Workshops.

Moved by: Joe Pantalone  
Seconded by: Ila Bossons

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT staff be directed to organize a series of Inter-Regional Stormwater Management Workshops to promote the sharing of technical information and management approaches, to foster the implementation of the Toronto and Region Remedial Action Plan, and to assist in establishing a common vision and goals related to stormwater management;**

**THAT staff consult with adjacent Conservation Authorities to determine their interest in participating in these Inter-Regional Stormwater Management Workshops;**

**THAT staff proceed with the first workshop scheduled for May 7, 2003 on Sediment Control;**

**AND FURTHER THAT staff discuss the establishment of an Inter-Regional Working Group on Stormwater Management at the May 7th workshop.**

**CARRIED**

**BACKGROUND**

The City of Toronto, as part of its consultation in the development of its Wet Weather Flow Management Master Plan (WWFMP), requested the TRCA to co-host an information session for the 905 (upstream) municipalities to inform them of the progress of the WWFMP. "Our Shared Watersheds II" was held on Wednesday February 27, 2002 at the Black Creek Pioneer Village. Senior staff in each of the upstream municipalities were invited to continue the dialogue concerning wet weather flow management that was initiated at a similar round table discussion held in November, 2000.

This second session was designed to provide participants with a comprehensive update on the WWFMMP, to highlight "best practices" from upper watershed municipalities, and to enable a discussion on action and initiatives that could be included in the WWFMMP to assist Toronto and upstream watershed municipalities to work together and address common wet weather management goals.

Councilor Irene Jones, Chair of the WWFMMP Steering Committee, and members of City of Toronto staff provided the update on the WWFMMP while staff from Town of Richmond Hill, City of Brampton and the TRCA addressed best management practices. The following ideas regarding cooperation and collaboration emerged from the discussion:

- Establishment of a common vision and goals for stormwater management at a regional/watershed level.
- Identification of a list of shared interests and issues, and mechanisms for agreeing on inter-regional priorities and initiatives.
- Continuation of information sharing to ensure that various municipalities do not have to re-invent stormwater initiatives and programs already accomplished by others.
- Development of consistent messaging to communicate technical issues and best practices to the public and political decision-makers.
- Collaboration and cooperation extending beyond the TRCA's jurisdiction to other adjacent watersheds.

Other opportunities related to Stormwater Management discussed included:

- Development of a better link between groundwater management and stormwater management, particularly with respect to modelling.
- Encouragement of community awareness and involvement through education.
- Creation of a process to set standards and targets (i.e. "how clean" we want to be on a regional/watershed basis) and the means to reach them. There was a suggestion made to encourage MOE involvement in setting targets.
- Recognition of a growing desire to better integrate SWM concepts into urban settings, for example, through design guidelines for stormwater management ponds.

Source: "Wet Weather Flow Management Master Plan, Our Shared Watershed - Draft Meeting Summary" February 22, 2002

At Authority Meeting #4/02 Resolution # A101/02 was adopted:

*THAT staff be directed to develop a terms of reference for an Inter-regional Working Group on Stormwater Management to establish common vision and goals, promote the sharing of technical information and management approaches, and foster the implementation of the Toronto and Region Remedial Action Plan;*

*THAT staff consult with adjacent Conservation Authorities to determine their interest in participating and promoting this Working Group to their municipalities;*

*THAT staff seek funding assistance for the co-ordination and management of this working group from the Great Lakes Sustainability Fund;*

*AND FURTHER THAT the City of Toronto staff be thanked for their recommendation that the TRCA assist with this co-ordinated effort*

## **RATIONALE**

Based on recent discussions with various municipal staff across the TRCA's jurisdiction, it was decided that holding a series of technology transfer workshops related to stormwater management issues would prove more beneficial initially than establishing an Inter-regional Working Group on Stormwater Management to facilitate the sharing of technical information and management approaches and the implementation of the Toronto and Region Remedial Action Plan. The TRCA will discuss the opportunity to establish an Inter-Regional Working Group at the Sediment Control Workshop on May 7, 2003.

An on-going series of workshops will be held over the next four to five years allowing staff to follow-up on implementation. The following site specific Stormwater Management (SWM) issues were identified for the Inter-Regional Stormwater Management Workshops:

- Erosion and Sediment Control
- Maintenance of SWM Ponds
- Pest Control for SWM Ponds (e.g. West Nile Virus, etc.)
- Legal Aspects of SWM
- Water Budgets
- Water Allocation and Water Use
- Source Protection Plans
- Intergrated Watershed/Subwatershed Management Plans
- Nutrient Management
- Spills Management
- Greenroofs for Stormwater Management
- Performance Monitoring of SWM Practices
- Final Outcomes of the City of Toronto WWFMMP

Through this initiative, the TRCA is fulfilling its role under the RAP MOU, namely raising municipal and public awareness of the priority actions of the RAP; facilitating the exchange of information; undertaking regional scale initiatives appropriate for the implementation of the Living City and sustainability principles; and encouraging the necessary monitoring, planning, design and construction of projects in association with municipalities. Under the new RAP agreement, funding is available for outreach projects. Establishment of Inter-Regional Stormwater Management Workshops will foster cooperative approaches to stormwater management both within the TRCA's jurisdiction and the GTA in general.

## **DETAILS OF WORK TO BE DONE**

On May 7, 2003 the first Inter-Regional Stormwater Management Workshop on Sediment Control will take place at Black Creek Pioneer Village. Municipal, adjacent Conservation Authority, Environment Canada, DFO, MOE, MNR and MTO staff will be invited to discuss Erosion and Sediment Control initiatives. Included below is a draft agenda for the Sediment Control Workshop. During this workshop, the TRCA will discuss the establishment of a Working Group and future workshops.

# **Sediment Control Workshop**

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*Wednesday May 7th, 2003*

*Black Creek Pioneer Village*

## Proposed Agenda

- |     |   |   |
|-----|---|---|
| 1.  | Introduction  | Adele Freeman, RAP Team                 |
| 2.  | Overview of Sediment Control Initiatives                                | Glenn MacMillian, TRCA                  |
| 3.  | Federal Fisheries Act   | Derrick Beach, DFO                      |
| 4.  | Lakes and Rivers Improvement Act  | Warren May, MNR                         |
| 5.  | Fisheries Habitat Management - Enforcement                              | Tim Boyd, MNR                           |
| 6.  | Ontario Water Resources Act   | To be confirmed, MOE                    |
| 7.  | Sediment Controls - Consultant Perspective                              | Alan Kimble, Sabourin Kimble            |
| 8.  | Town of Richmond Hill Sediment Monitoring                               | John Nemeth, Richmond Hill              |
| 9.  | Sediment Pond Monitoring Study  | James Li, Ryerson                       |
| 10. | Development of Improved Design Criteria for Construction Sediment Ponds | Ed Graham, Clarifica                    |
| 11. | Benefits of Vegetative Buffers  | Bahram Gharabaghi, University of Guelph |
| 12. | Environmental Standards Project   | Clarke Gunter, MTO                      |
| 13. | Siltation and Erosion Control Environmental Management Project          | Alec Scott, Barrie                      |
| 14. | Legal Perspective   | Diane Saxe, Saxe Law                    |
| 15. | Water Quality Standards Discussion Paper                                | Anne Mitchell, CEILAP                   |
| 16. | Wrap Up   |   |

## **FINANCIAL DETAILS**

Funding to development the Inter-Regional Stormwater Management Workshops has been granted through the Toronto RAP (Account # 118-03 ).

**Report prepared by: Grace Tesa, extension 5659**  
**For Information contact: Glenn MacMillan, extension 5212**  
**Date: January 31, 2003**

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**RES.#D9/03 - CITY OF PICKERING STORMWATER RETROFIT STUDY**  
To support and participate in the implementation of the recommendations of the City of Pickering Stormwater Retrofit Study

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the City of Pickering Stormwater Retrofit Study be received;**

**THAT the Authority support the recommendations of the study;**

**AND FURTHER THAT staff be directed to continue working with the City of Pickering to facilitate implementation of the recommendations.**

**CARRIED**

## **BACKGROUND**

Urbanization has grown rapidly within the City of Pickering. In the early 1980's the City of Pickering prepared a Master Drainage Study (MDP) to provide a town-wide strategy to control flooding and erosion and to improve water quality, environmental, aesthetic and recreational potential for the watercourses and the valley and stream corridors within the City of Pickering. The study resulted in the adoption of urban drainage policies to guide future development in the areas of pollution control, major/minor system drainage, subdivision planning and sediment and erosion control. Since that time, various levels of stormwater management control have been implemented throughout the City. However the majority of urban development within the City of Pickering preceded the completion of the MDP, and therefore the implementation of the recommendations was limited. The absence of stormwater controls has resulted in flooding problems, streambank erosion and degradation of water quality within the City of Pickering's Watersheds.

A number of factors and studies have contributed to the decision to undertake the *City of Pickering Stormwater Retrofit Study*, including *Waterfront 2001* published by the Mayor Arthur's Task Force on the Pickering Waterfront and *The Krosno Creek Preliminary Stormwater Management Strategy* prepared by the TRCA in 2002. Both reports provided recommendations regarding a watershed management strategy to address streambank erosion and water quality degradation within Frenchman's Bay Watershed and its subwatersheds. Also identified were various stormwater management practices, required to preserve and enhance the long-term ecological sustainability, natural diversity, and viability of the Frenchman's Bay and associated watercourses which are affected by urban developments within the contributing watershed areas.

The study area includes the existing urban areas within the City of Pickering. The City of Pickering is located within the Regional Municipality of Durham. Portions of the Rouge River, Petticoat Creek, Duffins Creek, Carruthers Creek, and Frenchman's Bay Watersheds and Lake Ontario's Waterfront are included in the study area.

### **Purpose of the Study**

The Toronto and Region Conservation Authority, in partnership with the City of Pickering initiated the *City of Pickering Stormwater Retrofit Study* as a framework for a long term strategy to implement stormwater quantity and quality controls within the existing uncontrolled urbanized areas of the City. It was recognized that the continuation of development review on a site by site basis, for infill development, would lead to a proliferation of small facilities throughout the City and ultimately to an increase in construction and future maintenance costs. This comprehensive approach will result in a more efficient stormwater management system. The *City of Pickering Stormwater Retrofit Study* is a broadly-based, planning level study which addresses the issue of stormwater management on a city-wide basis, using an ecosystem approach.

The purpose of this study is to provide the City of Pickering with a stormwater management strategy that not only identifies opportunities to optimize the benefits of existing stormwater management facilities and opportunities for potential new facilities within the existing urban areas, but also provides implementation strategy.

### **Approach**

This study was undertaken using a three-phased approach. The Phase I component focused on the collection and review of existing background information. A number of GIS-based maps were produced which provide information regarding the existing status of stormwater management within the City of Pickering.

Phase II involved assessing opportunities for implementing alternative stormwater management practices, including source, conveyance, end-of-pipe and special purpose controls. The end-of-pipe assessment included both the retrofit potential of existing stormwater management ponds and existing uncontrolled storm sewer outfalls within the City of Pickering.

Phase III included the development of an implementation strategy based on the following steps:

1. Produce a Short List of Retrofit Opportunities
2. Determine the Environmental Benefit
3. Determine the Retrofit Priority Based on the Environmental Benefit
4. Prepare a Preliminary Cost Estimate
5. Determine the Ranking Based on Environmental Benefit and Cost Estimates
6. Combine the ranking in Step 3 with the cost estimates to determine a final ranking of ponds and outfalls in this retrofit study

## **CONCLUSIONS & RECOMMENDATIONS**

Various stormwater practices, including lot level, conveyance, end-of-pipe and special purpose controls were identified to improve water quality within the urbanized areas of the City of Pickering. Based on the preliminary investigations including field verification, it was concluded that there are three existing stormwater management ponds with the potential to be retrofitted and seven locations where new stormwater management facilities could potentially be constructed to provide stormwater quality and quantity control. The two proposed new facilities within the Pine Creek Subwatershed were omitted from the Phase III portion of this study since additional studies and information are required to determine the land area available. As such, the findings of this report provide direction with respect to the feasibility of retrofitting the three existing facilities and creating new ponds at five storm sewer outfalls. The final prioritization of retrofit was based on environmental and economic factors. Further detailed studies will be required at all sites prior to implementing the recommendations of this study. The existing quantity control function of the existing SWM ponds must be maintained as part of any retrofit modifications.

Some key recommendations of the study include:

- Three existing quantity control ponds in the City of Pickering (Dixie Estates Pond, JDS Investment Pond, and Stroud's Pond) be considered as possible retrofit SWM facilities. Also, six potential new SWM facilities may be created in the Frenchman's Bay Watershed (KC1, KC2, KC3, KC4, PC1 and PC2) and one potential new SWM pond in the Waterfront drainage area (WF1). The summary table below outlines the retrofit priority for these facilities.

**CITY OF PICKERING PRIORITY FOR RETROFIT AND NEW SWM PONDS**

<b>Pond/Outfall No.</b>	<b>Pond Name/ Outfall Location</b>	<b>Cost Estimate (\$)</b>	<b>Priority</b>	<b>Notes</b>
WF 1	Rodd Ave	260,000	1	New Pond
KC 1	Wharf St	200,000	2	New Pond
KC 2	Alderwood Pl	450,000	3	New Pond
KC 3	Feldspar Ct	950,000	4	New Pond
263.0	JDS Investment	550,000	5	Retrofit Pond
264.0	Stroud's	1,040,000	6	Retrofit Pond
KC 4	Quigly St	1,800,000	7	New Pond
160.1	Dixie Estates	500,000	8	Retrofit Pond
PC 1	Hwy 401/Kingston Rd	See Note*	See Note*	Retrofit Pond
PC 2	Douglas Park	See Note*	See Note*	Retrofit Pond

\* Note: Insufficient data is available and further studies are required to assess the Pine Creek Outfalls as part of the Implementation Strategy

- A downspout disconnection survey should be undertaken for the remaining areas within the City of Pickering.
- Prior to undertaking the design and construction of the retrofits a number of steps must be followed. These steps include undertaking a Class Environmental Assessment process, further hydrologic/hydraulic modelling together with topographic and geotechnical investigations. Typically stormwater retrofit projects fall under Schedule B of the Municipal Class Environmental Assessment process. In addition, local drainage and flooding issue should be addressed.
- Further discussions should be carried out with City staff with respect to municipal plans regarding trailways, parkland, etc., where projects are in conflict with retrofit opportunities and that consultation is undertaken with residents where retrofit projects are proposed in residential areas.
- City of Pickering staff should review their development standards to allow for alternative SWM measures (i.e. downspout disconnection).
- Funding sources and partnerships be established to ensure implementation of the stormwater management strategy.
- The City of Pickering adopt a stormwater fee-in-lieu policy to facilitate the implementation of retrofit programs and the development of overall watershed management.

**DETAILS OF WORK TO BE DONE**

TRCA staff will continue to work with City of Pickering staff to implement the recommendations of the study.

**Report prepared by: Grace Tesa, extension 5659**  
**For information contact Glenn MacMillan, extension 5212**  
**Marilee Gadzovski, extension 5362**  
**Date: March 17, 2003**

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**RES.#D10/03 - 6 & 18 HARDWOOD GATE SLOPE STABILIZATION PROJECT**  
Implementation of the proposed slope stabilization works at 16 & 18  
Hardwood Gate, in the City of Toronto.

Moved by: Dave Ryan  
Seconded by: Joe Pantalone

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT staff be directed to proceed with the slope stabilization project at 16 & 18 Hardwood Gate.**

**CARRIED**

**BACKGROUND**

Staff were contacted in 2001 by the residents at the above noted properties and notified of the slope failure. Staff performed a site inspection to assess the conditions and reported back to staff with their findings. Subsequently, Soil Eng geotechnical engineering consultants were retained to undertake a preliminary site investigation, including installation of boreholes and to report back to staff with preliminary recommendations. Based on the site inspections and analysis of the boreholes it was apparent that the original valley slope was over steepened in part due to placement of surplus fill from the original site development. Additionally, the residents constructed retaining walls in an effort to address the slumping of the slope which may have factored in the acceleration of the slope failure. Staff initiated a Class Environmental Assessment in 2002 for this project and organized a Community Liaison Committee (CLC) with the local residents. Soil Eng was retained to assist in the preparation of design alternatives and to participate in the public consultation component of the Class E.A. process. The Class E.A. was completed in February 2003 with a final preferred design for the proposed slope stabilization.

**DETAILS OF WORK TO BE DONE**

The final preferred design for the slope stabilization includes, the removal of the surplus fill material and failed crib wall structures at the rear of both properties. Restoration of the existing slope to the original valley wall, installation of a reinforced earth wall along a portion of the top of slope and final site restoration and planting. Work is scheduled to start in the Spring of 2003, weather permitting and pending suitable site conditions. The total estimated cost for this work is \$80, 000.

**FINANCIAL DETAILS**

Staff are presently negotiating a cost sharing agreement with the affected homeowners for this work.

Funds for this project are available under Account 170 01.

**Report prepared by: Mark Preston 416-392-9722**

**For Information contact: Mark Preston, 416-392-9722**

**Date: March 31, 2003**

**Attachments: 2**





**RES.#D11/03 -**

**FRENCHMAN'S BAY WATERSHED REHABILITATION PROJECT**

An update of the Frenchman's Bay Watershed Rehabilitation Project and an outline of the 2003 work priorities

Moved by: Dave Ryan  
Seconded by: Frank Scarpitti

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the status of the Frenchman's Bay Watershed Rehabilitation Project and the 2003 priorities be received;**

**AND FURTHER THAT staff continue with this important watershed project (City of Pickering in the Region of Durham) in cooperation with PESCA (Pickering East Shore Community Association), the City of Pickering, Ontario Power Generation Pickering Nuclear and the Ontario Trillium Foundation.**

**CARRIED**

**BACKGROUND**

The Frenchman's Bay Watershed Rehabilitation Project began in September 1998 as a two-year community driven environmental initiative when EcoAction 2000 granted funds in the amount of \$69,000. Since that time the project received additional funding from EcoAction to extend the project until September 31st, 2002. With the overwhelming success of over 4 years of this project, a new partnership with PESCA (Pickering East Shore Community Association) was formed and a proposal submitted to the Ontario Trillium Foundation.

At Authority meeting #8/02, Res. #A224/02 was approved:

*"THAT the collaborative agreement with PESCA (Pickering Eastshore Community Centre Association), the City of Pickering, Ontario Power Generation - Pickering Nuclear and the Toronto and Region Conservation Authority (TRCA) for the period of October 1, 2002 - September 31, 2007 as required by the Ontario Trillium Foundation be approved;*

*AND FURTHER THAT staff be directed to take the necessary actions to implement the agreement including the signing of documents subject to PESCA receiving written confirmation of Ontario Trillium Foundation funding."*

In October 2002, the Trillium Foundation approved funding in the amount of \$125,000 to allow the Frenchman's Bay project to continue until December 31st, 2007.

Since that time the project began implementation of its' 2003 deliverables, as agreed upon by all project partners, which includes:

- Engage 375 individuals;
- Enhance 1 hectare of forest;
- Plant 250 trees, shrubs, wildflowers and aquatics;
- Install 15 Wildlife Habitat Structures (bird boxes, snakes hibernaculums, etc.);
- Develop 20 plans (energy/ natural ways audits, property plans and stream plans);
- Deliver 7 educational workshops (recognition night and garbage clean-ups);
- Complete 6 monitoring programs.

These deliverables will be achieved through the following program components:

**HOEP (Hands-on-the-Earth-Program)**

- Delivery of 1 Woodlot Management Workshop and 4 public events
- Assist co-op students with development of 2 stream management plan
- Construct and install 1 public viewing platform

**VEW Monitoring Program**

- Delivery of 2 training workshops
- Completion of 8 'Watch' programs
- Analyze monitoring data and prepare 2 VEW newsletters

**Natural Alternative Program**

- Delivery of 1 Naturalization Workshop, 1 SEAP workshop and 1 Action Recognition Program
- Publish 5 Environmental Corner Articles
- Develop 10 property naturalization plans and 10 SEAP plans

Through the development of a Planning Advisory Committee (PAC), which has already had its' second meeting, project partners will receive quarterly updates with regards to the progress of successful completion of the deliverables discussed above, program changes and funding updates.

**FINANCIAL DETAILS**

The project has a five year term, beginning January 1st, 2003 and ending December 31st, 2007. The original budget of \$467,245 (in-kind support and cash) over five years has been secured including \$125,000 Trillium funding.

Funding for this project in 2003 is in account #225-94.

The following fund raising and project partnership development initiatives have also been taken:

1. Two submissions to the OMNR for funding under the CFIP and CWIP programs.
2. One submission to the TD Friends of the Environment Foundation for funding.

**Report prepared by: Angela Porteous, 905-420-4660, extension 2212**

**For Information contact: Larry Field, extension 5243**

**Date: April 02, 2003**

**RES.#D12/03 -**

**ACQUISITION OF ABANDONED HYDRO CORRIDOR LANDS**

Taylor Massey Creek Watershed, City of Toronto. Receipt of a request from the Don Watershed Regeneration Council to explore the acquisition of lands bordering that section of the Taylor Massey Creek stream corridor lands within the north-south hydro corridor located east of Pharmacy Road and running from the Terraview Willowfield concept site to south of Lawrence Street as it is a major green corridor within the Taylor Massey Creek watershed

Moved by:

Ila Bossons

Seconded by:

Frank Scarpitti

**WHEREAS the TRCA is in receipt of a request from the Don Watershed Regeneration Council to explore acquisition of the lands bordering that section of the Taylor Massey Creek stream corridor lands within the north-south hydro corridor located east of Pharmacy Road and running from the Terraview Willowfield concept site to south of Lawrence Street as it is a major green corridor within the Taylor Massey Creek watershed;**

**THAT THE BOARD RECOMMENDS TO THE AUTHORITY THAT staff explore the acquisition of the valley and stream corridor lands associated with the subject surplus Hydro lands;**

**AND FURTHER THAT the City of Toronto be requested to consider the acquisition of the remaining portion of the hydro corridor lands not containing the Taylor Massey Creek stream corridor lands.**

**CARRIED**

**BACKGROUND**

At Don Watershed Regeneration Council Meeting #3/03, held March 20, 2003, the Council approved the following resolution:

*"THAT the Don Watershed Regeneration Council request the Toronto and Region Conservation Authority pursue acquisition of the lands bordering that section of the Taylor Massey watercourse within the north-south hydro corridor located east of Pharmacy Road and running from the Terraview Willowfield concept site to south of Lawrence Street as it is a major green corridor within the Taylor Massey watershed;*

*THAT the Don Watershed Regeneration Council recommends that the City of Toronto pursue acquisition of the rest of the same hydro corridor lands not containing the Taylor Massey watercourse;*

*THAT these lands be purchased for the purposes of habitat regeneration, aquatic regeneration and recreation uses appropriate for the community;*

*AND FURTHER THAT this recommendation be brought forward to the Water and Related Advisory Board at their Meeting #1/03 being held on April 11, 2003."*

The Friends of the Don East (FODE) and Nancy Penny, member of the Don Watershed Regeneration Council, have identified that the future use of the abandoned hydro corridor land east of Pharmacy Avenue that runs from Highway 401 to south of Lawrence Avenue, is currently under a six month assessment with respect to its future use. The northern portion of the corridor parallels the Taylor Massey Creek, a tributary of the Don River. The site is also directly south of the award winning Terraview Willowfield Park Regeneration Project that was implemented based on the preliminary concept work published in "*Forty Steps to a New Don.*" The regeneration of Terraview Willowfield included the development of two large wetlands, innovative stormwater management facilities, trail and habitat regeneration, and provision for outdoor education and recreation. Preliminary designs were also developed for the adjacent abandoned hydro corridor. The Taylor Massey Creek flows through a trapezoidal channel similar to the area that has now been naturalized in the Terraview Willowfield area. Acquisition of the hydro corridor will protect the opportunity to continue the process of naturalization, and development of a community amenity for the area and future trail linkages.

**For Information contact: Adele Freeman, extension 5238**  
**Date: April 01, 2003**

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**RES.#D13/03 - CANADIAN RIVERS DAY - JUNE 8, 2003**  
Announcement of a Canadian Rivers Day.

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the staff report on Canadian Rivers Day be received;**

**THAT staff work with TRCA volunteer task forces and other partners to coordinate annual events to celebrate watershed management accomplishments as part of Canadian Rivers Day;**

**AND FURTHER THAT staff send a letter to municipalities requesting they formally proclaim June 8, 2003 as Canadian Rivers Day.**

**CARRIED**

**BACKGROUND**

On June 21, 2002, the Minister for Canadian Heritage, Sheila Copps, signed a Ministerial Proclamation to "declare that the second Sunday of June will be celebrated henceforth as Canadian Rivers Day". The idea of an annual Canadian Rivers Day was unanimously endorsed at the Canadian Rivers Heritage Conference in 2001. In British Columbia, BC Rivers Day has been celebrated for more than two decades and is the largest rivers-related event in North America.

Canadian Rivers Day will promote the natural, cultural and recreational values of Canada's rivers. It is hoped that Canadians will take an active part in Canadian Rivers Day and that it will bring Canada's river communities closer together on tangible projects for conservation, interpretation and enjoyment. Nationwide activities are being coordinated by Rivers Canada, a non-profit organization. However, no details are known at this time.

A number of years ago, TRCA, with the assistance of municipalities and other partners, coordinated watershed-wide events under the banner of "Celebrate Your Watersheds Week". It was successful but lost momentum due to other projects and priorities.

To help rekindle a celebration of rivers and watersheds, several of the TRCA community-based task forces have been considering ideas to promote Canadian Rivers Day. A number of ideas are currently being considered by the Humber Watershed Alliance including: a large flotilla of boats in the lower Humber River; a canoe race; First Nations participation; demonstrations; and exhibitors. To date, the City of Toronto has offered to work with the Humber Watershed Alliance and The Toronto and Region Conservation Authority to organize the above-mentioned activities. Other partners have expressed a desire to take part in watershed-wide activities.

The popular Mill Pond Splash will be hosted again this year by the Don Regeneration Council in partnership with the Town of Richmond Hill.

#### **DETAILS OF WORK TO BE DONE**

- Confirm activities and partners for 2003 activities;
- Encourage municipalities, other agencies and groups to promote Canadian Rivers Day; and
- Work with TRCA volunteer task forces and other partners to coordinate annual events that celebrate watershed management accomplishments.

#### **FINANCIAL DETAILS**

- Existing TRCA staff will assist with the planning and implementation of Canadian Rivers Day events; and
- Proposals for funding will be prepared to support future activities related to the Canadian Rivers Day celebrations.

**Report prepared by: Gary Wilkins, extension 5211**  
**For Information contact: Gary Wilkins, extension 5211**  
**Date: March 11, 2003**

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**RES.#D14/03 -**

#### **DON WATERSHED REGENERATION COUNCIL**

Minutes of Meeting #10/02, Meeting #01/03 and Meeting #02/03. The minutes of Meeting #10/02 held November 21, 2002, Meeting #1/03 held on January 16, 2003 and Meeting #2/03 held on February 20, 2003

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the minutes of the Don Watershed Regeneration Council of Meeting #10/02, Meeting #1/03 and Meeting #2/03 as appended, be received.**

**CARRIED**

**BACKGROUND**

Copies of the minutes of the Don Watershed Regeneration Council are forwarded to the Authority through the Watershed Management Advisory Board. These minutes constitute the formal record of the work of the Don Watershed Regeneration Council, and serve to keep the Authority members informed of the steps being undertaken to implement the Don Watershed Task Force's report "*Forty Steps to a New Don*" and to regenerate the watershed.

**For Information contact: Adele Freeman, extension 5238**

**Date: April 01, 2003**

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**RES.#D15/03 - DUFFINS CREEK AND CARRUTHERS CREEK WATERSHED TASK FORCES**

Minutes of Meetings #6/02 and #1/03.. The Minutes of Duffins Creek and Carruthers Creek Watershed Task Forces meetings #6/02 and #1/03, held on November 20, 2002 and February 26, 2003, respectively, are provided for information.

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the minutes of the Duffins Creek and Carruthers Creek Watershed Task Forces meetings #6/02 and #1/03, as appended, be received.**

**CARRIED**

**BACKGROUND**

Section 4.5 Reporting Relationships

"The Task Forces will communicate to the Authority through the Watershed Management Advisory Board. The Task Force Chairs will be required to coordinate communications to this Board with assistance of Authority staff."

**Report prepared by: Michelle Zynwala, extension 5330**

**For Information contact: Gary Bowen, extension 5385**

**Date: March 31, 2003**

**RES.#D16/03 -**

**ETOBICOKE-MIMICO WATERSHEDS COALITION**

Minutes of Meeting #1/03, held on January 23, 2003. The minutes of the Etobicoke-Mimico Watersheds Coalition meeting #1/03, held on January 23, 2003, are provided for information

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the minutes of the Etobicoke-Mimico Watersheds Coalition meeting #1/03, held on January 23, 2003, as appended, be received.**

**CARRIED**

**BACKGROUND**

The Terms of Reference for the Etobicoke-Mimico Watersheds Coalition, dated May 2002, and adopted by the Authority at meeting #5/02, held on May 24, 2002 by resolution #A124/02, includes the following provision:

3.5 Reporting Relationship

*The Etobicoke-Mimico Watersheds Coalition is considered a subcommittee of the Watershed Management Advisory Board. The Watersheds Coalition Chair will report, at least, on a semi-annual basis on projects and progress. Annual work plans will be developed and submitted prior to the end of the first quarter of each year.*

**Report prepared by: Lia Lappano, extension 5292**  
**For Information contact: Kristin Geater, extension 5263**  
**Date: March 31, 2003**

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**RES.#D17/03 -**

**HUMBER WATERSHED ALLIANCE**

Minutes of Meeting #1/03, January 21, 2003. The minutes of Humber Watershed Alliance meeting #1/03, held on January 21, 2003, are provided for information

Moved by: Dave Ryan  
Seconded by: Tanny Wells

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the minutes of the Humber Watershed Alliance meeting #1/03, held on January 21, 2003, as appended, be received.**

**CARRIED**

**BACKGROUND**

The Terms of Reference for the Humber Watershed Alliance, dated December 2000, and adopted by the Authority at meeting #11/00, held on January 5, 2001 by resolution #A266/00, includes the following provision:

3.5 Reporting Relationship

*The Humber Watershed Alliance is considered a subcommittee of the Watershed Management Advisory Board. The Watershed Alliance Chair will report, at least on a semi-annual basis, on projects and progress.*

**Report prepared by: Lia Lappano, extension 5292**  
**For Information contact: Gary Wilkins, extension 5211**  
**Date: March 31, 2003**

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**RES.#D18/03 - ROUGE PARK NORTH DRAFT OFFICIAL PLAN AMENDMENT**  
Endorsement of the Town of Markham's draft Rouge Park North Official Plan Amendment and supporting Implementation Manual, and Urban Design and Infrastructure Guidelines.

Moved by: Frank Scarpitti  
Seconded by: Dave Ryan

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT the Town of Markham's draft Rouge Park North Official Plan Amendment, and supporting technical documents be endorsed subject to the recommended policy refinements provided by TRCA staff within this report;**

**THAT the Authority direct staff to continue to provide technical review and support to the Town of Markham, and the Rouge Park North consulting team to complete the Implementation Manual revisions, and to address issues related to stakeholders queries;**

**THAT the Town of Markham be commended for its initiative to advance environmental planning within the Rouge Watershed;**

**THAT the Town of Markham be requested to ensure that the final version of the Official Plan Amendment be structured so that the ecological criteria for the middle reaches area, and the 600 meter corridor for Little Rouge Creek, as described in the Official Plan Amendment, represent the minimum Rouge Park boundary that can maintain ecological function and reasonable biodiversity, in a near urban and urbanizing region, as proposed by the Rouge Park North Management Plan.**

**AND FURTHER THAT the resolution be forwarded to the Rouge Alliance for information.**

**AMENDMENT**  
**RES.#D19/03**

Moved by: Joe Pantalone  
Seconded by: Ila Bossons

**THAT the following be inserted after the main motion:**

**AND FURTHER THAT Brian Denney be authorized to appear as a deputant to represent the TRCA's position if the TRCA's recommendations are not incorporated into Markham's final draft Official Plan Amendment.**

**THE AMENDMENT WAS CARRIED**

**THE MAIN MOTION, AS AMENDED, WAS CARRIED**

**BACKGROUND**

On July 28, 2000, the Authority adopted the following resolution:

*THAT the Rouge North Management plan be endorsed;*

*THAT the Authority support the Rouge Alliance's initiatives in obtaining Provincial endorsement of the Rouge North Management Plan and the recognition of the Rouge Park within the Provincial Policy Statement;*

*THAT the Rouge Alliance prepare and adopt an Implementation Program and Acquisition Strategy to ensure the intent of the Plan is achieved. As part of this program municipalities of Richmond Hill, Whitchurch-Stouffville, Markham and the Region of York will need to consider amendments to the Official Plan as one of the implementation strategies;*

*THAT the Authority recommend that municipalities within the Rouge Watershed consider undertaking, with technical assistance from the TRCA, subwatershed plans prior to considering urban expansion.*

In addition, resolutions were also received from all members of the Alliance which recommended that the completion of an Implementation Strategy was necessary to achieve the objectives set out in the Rouge North Management Plan.

Since this time, Authority staff have actively participated on the Rouge Park Alliance, and in various technical sub-committees to formulate the park implementation strategies. For the interim, Authority staff have used the policies of the Rouge North Management Plan as a guide to explore opportunities to achieve the Plan's vision wherever possible. However, the achievement of the plan's intent has been limited by the current planning policies.

Markham Council endorsed the RNMP (2001) on July 10, 2001, and subsequently initiated the formal amendment process on May 28, 2002, authorizing Town staff to prepare an Official Plan Amendment to implement the Rouge Park North Management Plan (2001). The purpose of the Draft Amendment is:

- To recognize existing public lands, identified as Rouge Park, along the Rouge River tributaries as Rouge Park lands,

- To incorporate ecologically-based criteria as a means of delineating future Rouge Park on the non-urban lands of Markham,
- To incorporate policy direction for the long-term management of the Park lands within Markham.

Extensive public consultation and stakeholder review has occurred during the amendment planning process.

The draft OPA includes three (3) key supporting documents including an Implementation Manual (Boundary Delineation Criteria), Urban Design and Infrastructure Guidelines and a Rouge Park map. It is the intention that the Rouge Park North be designated through the application of the Boundary Delineation Criteria and the policies outlined in the OPA.

TRCA have had several occasions to comment on the park boundary delineation process, and since the distribution of the draft OPA amendment, and draft supporting documents, have been actively working with the Town, and the Park's consultant Schollen & Company Inc. to refine the Implementation Manual (Boundary Delineation Criteria), and park mapping. TRCA has met with the Rouge Park staff, and has, at the request of the Town of Markham, reviewed several letters/submissions of comment from the following:

- **Friends of the Rouge Watershed**, Jim Robb, March 21, 2003
- **City of Toronto, Community Planning, East District Office**, P. Hamilton, February 14, 2003
- **Save the Rouge Valley System Inc.**, Glenn De Baeremaeker, February 18, 2003
- **ESG INTERNATIONAL INC.**, Tom Hilditch, January 28, 2003
- **Urban Development Institute (UDI), Ont., York Chapter**, F. Nelson, January 29, 2003

#### **RATIONALE**

The Toronto Region Conservation Authority appreciates the extensive effort that the Town of Markham has made to formulate this draft Official Plan Amendment (OPA), and to conduct a constructive dialogue with Alliance members and stakeholders to resolve issues of concern and clarification.

TRCA, Schollen & Associates, and Town staff have conducted lengthy discussions over the last two months related to technical concerns associated with the Implementation (Boundary Delineation Criteria) Manual from the Urban Development Institute (UDI) and their consultant, Tom Hilditch from ESG International Inc. TRCA has worked with the participants to address detailed queries related to:

- confirming the science associated with the boundary delineation criteria, inclusive of the TRCA's field protocol's;

- clarifying the manual terms, and the process associated with application of the boundary criteria and delineation;
- verifying the compatibility and support given to the boundary criteria from the TRCA Terrestrial Natural Heritage Strategy.

A revised implementation manual document is still forthcoming for final approval reflecting these adjustments and clarifications.

TRCA and Schollen & Company Inc. jointly prepared detailed comments, specific to each concern and question, and forwarded them, under separate cover, to Town staff for incorporation into a set of technical responses associated with the Rouge North Implementation Manual. This letter will be finalized and will be forwarded through the Town as a formal response to comments from UDI and ESG International Inc., and any other technical concerns raised during this OPA process.

It must be noted that modifications/ clarification to the terminology and criteria included in the Implementation Manual must be brought forward into the final OPA document. It was agreed that Schollen & Company Inc. will provide those refinements to the Town for final editing purposes.

\* \* \* \*

TRCA supports the creation of this Official Plan Amendment that sets the implementation stage for the Rouge Park North, with the foundation to activate negotiations for land securement and park management. It is important that the full intent of the Rouge Park North Management Plan is carried forward into the Official Plan, while setting the appropriate steps in place to ensure success in the planning arena.

TRCA offers the following comments regarding the draft Official Plan Amendment. A letter incorporating these recommendations has been sent to the Town of Markham for their April 8, 2003 deadline for comments.

#### Park Vision, Goals and Objectives

The OPA should include consistent wording associated with the park vision, goals and objectives as per the Rouge Park North Management Plan (RPNP);

#### Manual as a Technical Supporting Document

The TRCA supports keeping the Rouge North Implementation Manual as a supporting technical document to the OPA, in view of the evolving science and technical work that is developing at the Authority. The Terrestrial Natural Heritage Program of the Authority, and upcoming watershed and groundwater studies will be completed over the next year or two. Studies will be open to technical review and refinement as needed.

#### Public Process for Change

To ensure an open process for any anticipated change to the OPA and Park implementation documents, a public review and commenting process should be ensured.

#### Watershed Strategy (k)

TRCA will be initiating their Watershed strategy process in 2003, with an anticipated completion over the next two years. Policy (k) needs to be strengthened to state that “development applications must be consistent with the Watershed Strategy for the Rouge River watershed”.

TRCA would support no further OPA's to expand the urban boundary in the Rouge Watershed should be adopted until the plan water budget is determined and the watershed strategy is completed.

All tributaries within the Rouge Watershed will be subject to application of the ecological criteria, to determine park boundary and development limits.

#### Monitoring (j)

TRCA would support a monitoring program that is implemented with the Town, the Rouge Park Alliance and other government agencies to report on the progress towards the goals and objectives (and ecological health) of the Rouge Park North in the Town of Markham. This work needs to be linked to the TRCA's existing monitoring program with the watershed.

#### Urban Policy Area (e) Existing Approvals Apply (f) Enhancement Opportunities

TRCA would support the inclusion of a “best efforts” policy for applying the ecological criteria within the Urban Policy Area of Markham's Official Plan, where opportunities exist to re-open development limit dialogue with landowners.

#### Little Rouge Creek Policy Area (e) Urban Open Space

It is the intention of the plan to keep public park uses located contiguously to the outer portions of the creek corridor, however, site-specific assessment will need to be conducted to determine the appropriate integration of open space uses and Rouge Park corridor lands. Policy (e) should read that Urban Open Space uses may be permitted within the outer 100 metres of the Little Rouge River Corridor, including stormwater management facilities, subject to the goals and objectives of the RPNP approval of stormwater management studies (and Master Environmental Servicing Plans - MESP's) and consistency with the Rouge Park North Infrastructure Guidelines.

As per the RNMP, extensive open space uses that alter the landscape (except reforestation), shall not be permitted within 200 metres of the centreline of the Little Rouge Creek, except as approved on a case by case basis in the context of the Rouge North Management Plan (2001) and the Little Rouge Creek Master Plan.

#### Stewardship Options

In keeping with the TRCA's Terrestrial Natural Heritage Program, the policy should include not just the protection of identified natural and environmental features in private ownership but the enhancement of environmental features and/or functions on private lands.

#### Management and Restoration Plans

The wording should be strengthened to be consistent with the RNMP.... Management and Restoration Plans will recognize the unique attributes of Special Management Sites and strive for consistency with the goal, purposes and objectives of the Rouge North Management Plan (2001).

The restoration and management of vegetation communities within the Rouge Park North lands is encouraged, and is consistent with the TRCA's policies and Terrestrial Natural Heritage Program.

**DETAILS OF WORK TO BE DONE**

As a member of the Rouge Alliance, and as an agency partner in the implementation of the park policies, TRCA staff will continue our dialogue with the Town and stakeholders on the Rouge Park North OPA and the technical implementation manual. Staff will assist the Town of Markham in preparing the final edited version of the OPA and Rouge North Implementation Manual.

**Report Prepared by: Carolyn Woodland, extension 5214**  
**For Information contact: Carolyn Woodland, extension 5214**  
**Date: April 08, 2003**  
**Attachments: 1**



**NEW BUSINESS**

**RES.#D20/03 -**

**URBAN FORESTRY**

Moved by: Joe Pantalone

Seconded by: Ila Bossons

**THE BOARD RECOMMENDS TO THE AUTHORITY THAT all future staff reports include comments and factual information as to how the subject matter deals with the enhancements of urban forests and natural corridors, including trees and shrubs.**

**CARRIED**

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**TERMINATION**

ON MOTION, the meeting terminated at 12:05 p.m., on Friday, April 11, 2003.

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Ian Sinclair  
Chair

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J. Craig Mather  
Secretary-Treasurer

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