

Report to: Environmental Issues Committee
Report date: March 18, 2013
Subject: Markham Trees for Tomorrow Fund, Funding Applications, Spring 2013
Prepared by: Nory Takata, Parks Planner – Operations Department
Community and Fire Services Commission, Ext. 3226

Recommending:

1. That the funding application from LEAF (Local Enhancement and Appreciation of Forests) for \$30,000 for LEAF's Backyard Tree Planting Program be approved;
2. That the funding application from Evergreen for \$30,000, for their Spreading Roots: Community Greening Initiative, be approved;
3. That the funding application from 10,000 Trees for the Rouge for \$22,000, for their 24th Annual Wildlife Habitat Restoration Project, be approved;
4. That the funding application from Friends of the Rouge Watershed for \$30,000, for their Habitat Restoration Project, be approved;
5. That the funds come from the Markham Trees for Tomorrow Capital Project account #700-101-5399-13431;
6. That staff be authorized and directed to do all things necessary to give effect to these recommendations..

Discussion:

The purpose of this report to Environmental Issues Committee is to demonstrate that the funding recommendations for the four project submissions are sound candidates for funding support on the basis of individual merit in terms of their contributions to the overall success of the Trees for Tomorrow Program. Collectively, the four organizations and the diverse focus of their project proposals, describe the broader tenets of the Trees for Tomorrow Program's framing paradigm of achieving success through effective partnerships that foster wide scale community engagement across cultural, generational and linguistic boundaries to help instil a sense of shared responsibility and a greater appreciation of the importance of improving the health and resilience of our urban forest.

As recommended, the combined total for the four funding applications represents a total commitment of \$112,000 from the Trees for Tomorrow Fund in support of projects with a combined value of \$396,967, upon completion. Beyond this effective leveraging of Markham's financial support, the level of community engagement, public outreach and education that is achieved through the contributions of each individual project, defines the sort of Community

Framework that is identified as one of three essential components of Urban Forest Management planning. Within the larger context of the Trees for Tomorrow Program, this funding is the critical tool in the effort to meet and, more than likely, exceed the multiple objectives for phase two of the program.

Project Summary

1. LEAF (Local Enhancement and Appreciation of Forests) Backyard Tree Planting Program – requesting \$30,000 (Appendices: 1A, B & C)

LEAF is a well known and highly regarded non-profit organization whose subsidized Backyard Tree Planting Program represents great value that extends far beyond the significant cost savings to Markham residents. With the evolving impacts of the Emerald Ash Borer on Markham's existing tree canopy, LEAF's Backyard Tree Planting Program will play an important role in our efforts to counteract the impacts of EAB in our residential areas. As with all of LEAF's programs, homeowner education is an integral element to provide all participants with the knowledge about the proper maintenance and basic tree care required to ensure the long-term health of their tree.

In addition to this tree planting program, LEAF provides other opportunities for Markham residents to learn more about our Urban Forest with two Markham tree tours as well as their multi-day Tree Tenders Workshop for residents who are interested in tree identification, biology and maintenance. As we gain insight into the importance of our Urban Forest in terms the many benefits and services it provides, the significance of LEAF's role as one of Markham's key partners within the Trees for Tomorrow Program cannot be underestimated.

Deliverables include:

- 165 household consultations to determine 'the right tree for the right place'
- Provide education on tree care 'best practices' and benefits of the urban forest
- Plant 280 native trees; 280 native shrubs and deliver 5 native garden kits
- Conduct two Markham tree tours
- Offer Tree Tenders Workshop to Markham residents
- Participate in other Markham events throughout the year

LEAF's application includes a detailed program description (including project management team) and detailed budget for review. Total project cost is \$97,000 and the amount requested from the Trees for Tomorrow Fund is \$30,000.

Recommendation: that the funding application from LEAF for \$30,000 to continue to offer the Backyard Tree Planting Program and related Urban Forest educational activities in 2013 be approved.

2. Evergreen Spreading Roots: Community Greening Initiative – requesting \$30,000 (Appendix 2)

Now entering the 5th year as a partner with Markham's Trees for Tomorrow Program, Evergreen has helped to build and sustain volunteer participation with Trees for Tomorrow Community Planting Events, while helping to organize, increase volunteer base and stewardship opportunities that have contributed greatly to the early establishment and survival rates of newly planted trees. Moreover, Evergreen has helped to augment the level of invasive species removal that currently afflict and threaten to reduce the native biodiversity of Markham's parks and natural areas.

Deliverables include:

- Plant 500 native trees and shrubs, along with a minimum of 250 native wildflowers
- Organize and support 8 to 10 Volunteer Stewardship Events
- Support all aspects of 4 or more Community Planting Events
- Engage volunteers in follow up monitoring of recent planting sites
- Continue to incorporate and expand educational component of all volunteer activities

A detailed program description and budget are included for review (Appendix 2). Total project cost is \$51,000 and the amount requested from the Trees for Tomorrow Fund is \$30,000.

Recommendation: that the funding application from Evergreen for \$30,000 to continue with the Spreading Roots: Community Greening Initiative for 2013 be approved.

3. 10,000 Trees for the Rouge: 24th Annual Habitat Restoration Project, requesting \$22,000 (Appendix 3)

10,000 Trees for the Rouge's 24th Annual Habitat Restoration Project will help to enhance the function of the riparian zone along a reach of the Little Rouge River to the east of Reesor Road along with the restoration of a former ephemeral wetland, both of which, will serve to improve water quality, significant fish habitat and hydrologic function of this section of the watershed through the planting of 5,200 native trees and 1,800 native shrubs.

Additional benefits of this project include:

- Increase habitat and native tree, shrub and herbaceous plant biodiversity; connect forest fragments; improve water quality and reduce peak flow volume and intensity along this reach of the Little Rouge
- Displace alien species / non-native vegetation
- Engage more than 2,000 community volunteers and include educational component to enrich the volunteer experience

A detailed project description and budget are appended for review. The total project cost is \$149,392 and the amount requested from the Trees for Tomorrow Fund is \$22,000.

Recommendation: that the funding application from 10,000 Trees for the Rouge for \$22,000 to continue the Annual Habitat Restoration Project for 2013 be approved.

4. Friends of the Rouge Watershed: 2013 Habitat Restoration Project for Bob Hunter Memorial Park – requesting \$30,000 (Appendices 4 A & B)

Friends of the Rouge Watershed's 2013 Habitat Restoration Project will restore 3 Ha of significant habitat in Bob Hunter Memorial Park. Deliverables and related benefits of this project include:

- Increasing biodiversity of native tree, shrub and herbaceous plant species with the planting of 6,500 native trees and shrubs, as well as 4,500 native wildflowers
- Establish significant interior habitat and displace invasive alien species
- Engage over 1,500 volunteers and add value with educational component to greatly enrich volunteer experience
- Improve local water quality, hydrological function and tree canopy for this significant restoration project

A detailed project description and budget are appended for review. The total project cost is \$99,575 and the amount requested from the Trees for Tomorrow Fund is \$30,000.

Recommendation: that the funding application from Friends of the Rouge Watershed requesting \$30,000 for the Habitat Restoration Project in Bob Hunter Memorial Park be approved.

The following chart shows the recommended expenditures from the 2013 Markham Trees for Tomorrow capital budget (account 700-101-5399-13431):

Markham Trees for Tomorrow Funding 2013	
<i>Markham Trees for Tomorrow Funding 2013 Approved Budget</i>	\$120,000
<i>Spring Funding Recommendations for 2013</i>	
LEAF – Backyard Tree Planting Program	\$30,000
Evergreen – Spreading Roots: Community Greening Initiative	\$30,000
10,000 Trees for the Rouge – 24 th Annual Habitat Restoration Project	\$22,000
Friends of the Rouge Watershed – 2013 Habitat Restoration for BHMP	\$30,000
Total	\$112,000
Markham Trees for Tomorrow: Funds Remaining *	\$8,000

****Funds remaining will support community tree planting projects and fall Trees for Tomorrow Events***

Appendix	1 (A, B&C) – LEAF Backyard Tree Planting Program
Appendix	2 – Evergreen – Spreading Roots: Community Greening Initiative
Appendix	3 – 10,000 Trees for the Rouge: 24 th Annual Habitat Restoration Project
Appendix	4 (A&B) - Friends of the Rouge Watershed: 2013 Habitat Restoration Project for BMHP

LEAF's Backyard Tree Planting Program

MTTF Fund Application 2013

Project Overview and Plan

Trees planted in the urban environment offer numerous environmental, economic and psychological benefits to city dwellers. At present, the City of Markham demonstrates 19% canopy cover, according to a recent urban forest study undertaken in York Region. Since most experts agree that 35-40% canopy cover is ideal, room for growth certainly exists, and the study suggests that residential property presents the best opportunities for new plantings in Markham:

"The residential low land use currently supports the greatest existing tree canopy in all three municipal study areas (Richmond Hill, Vaughan and Markham). Assuming that agricultural lands are deemed unsuitable for tree establishment, the greatest opportunity to establish additional tree cover in all three municipal study areas is found in the residential low land use category. This result indicates that homeowners and tenants in southern York Region are the most important and influential stewards of the urban forest." (York Region Urban Forest Study, Draft Summary Report, February 2012).

Markham is also facing the onslaught of Emerald Ash Borer (EAB), an invasive insect from Asia that attacks and kills all species of ash trees. EAB poses a serious and urgent threat to the estimated 2,800,000 mature ash trees growing in the York Region, as it is expected that most of these trees will become infested by the pest and die within the next 10-15 years. While the City of Markham's EAB Management Plan includes strategies for the treatment or removal and replacement of ash trees on public land, ash trees located on private property are the responsibility of individual homeowners.

LEAF's Backyard Tree Planting Program offers a convenient, accessible and affordable way for Markham residents to get new trees, shrubs and perennials for their yard, allowing homeowners to beautify their property while simultaneously helping to improve quality of life in the City overall. Our goal is to ensure that the right tree gets planted in the right place, thereby leading to the establishment of large-growing native trees whose dense canopies can provide maximum environmental benefits such as air quality improvement, reduction of the heat island effect and climate change mitigation. Furthermore, this program will inform residents about the issue of EAB, prepare them to make informed decisions about treating, removing and/or replacing ash trees on their property, and make it easy for them to take part in replanting Markham's urban forest.

The aims of our Backyard Tree Planting Program are achieved through the following four steps:

- 1) Pre-visit questionnaire to ensure that the property owner qualifies for the program, has adequate space, realistic expectations and is committed to caring for the tree long term.
- 2) Site consultation with an arborist to determine appropriate species and planting locations together with the homeowner (giving consideration to light, soil, space, conflicts, future changes to the yard, neighbouring properties and homeowner preferences). The consultations present an opportunity to provide information about EAB, inform ash tree owners of their options for treatment and/or removal, and emphasize the importance of replacement tree planting.
- 3) Planting by LEAF professionals in spring or fall.
- 4) Follow up questionnaire to assess participant satisfaction and/or follow-up visit to assess tree health.

Education also plays an important role in our program, and we emphasize the importance of care and maintenance for newly planted trees and shrubs at every opportunity. Our participants are encouraged to take an active role in caring for their piece of the urban forest, and are provided with the necessary information and support to do so.

With financial support from York Region and the City of Markham, LEAF has offered trees, shrubs and Native Garden Kits through its Backyard Tree Planting Program in Markham since 2008. During this time, we have reached 267 homeowners and conducted 243 yard consultations in the City, which has resulted in the planting of 430 trees, 313 shrubs, 5 Native Garden Kits (which include shrubs, perennials, and garden design plans) and 3 Edible Garden Kits (which include a selection of fruit and/or nut-bearing trees and shrubs). All participants who completed the post-planting survey in 2012 indicated that they would recommend our Backyard Tree Planting Program to others, and all found the program convenient as well.

Based on this positive feedback and due to an expected increase in demand resulting from ash tree loss, we anticipate that there will continue to be significant interest in LEAF's programs in Markham in 2013. We are confident that the perpetuation of this project will produce even more satisfied participants who recognize the importance of caring for their trees and shrubs for years to come, resulting in a lasting benefit to the community.

Our project will accomplish the following:

- ✓ Involve 165 households
- ✓ Conduct 165 yard consultations to determine "right tree for the right place"
- ✓ Deliver educational messages to 165 households on importance of proper tree care and the environmental benefits of the urban forest

- ✓ Plant 280 native trees
- ✓ Plant 230 native shrubs
- ✓ Deliver 5 Native Garden Kits
- ✓ Conduct on-site evaluations of 50 previously planted trees and shrubs in Markham
- ✓ Profile 5 past-participants including interviews and photos
- ✓ Provide a tree care guide to all participating households
- ✓ Provide locations (by ward) and species for all trees/shrubs planted
- ✓ Provide testimonials, photographs and other information as needed to promote the project

In addition to our Backyard Tree Planting Program, LEAF offers Markham residents many exciting opportunities to learn about and help protect and improve their urban forest in 2013. For example, LEAF plans to host two Tree Tours in the city this year. These popular guided walking tours highlight trees of interest in the neighbourhood in which they take place, and may also incorporate education on issues such as Emerald Ash Borer. In addition, our Tree Tenders Volunteer Training Program (which will be held at the Oak Ridges Community Centre in Richmond Hill this year), is open to all Markham resident who are interested in gaining tree-related knowledge and skills. This multi-day course provides basic arboriculture training through a combination of indoor and outdoor instruction. LEAF is also planning to attend a number of community outreach events in Markham, at which we can promote our program and our partnership with the City's Trees for Tomorrow Fund.

Proposed Timeline 2013

Throughout	Project promotion; evaluation, monitoring and verification
January – February	Planning and preparation for upcoming planting season
March-December	Respond to program inquiries; process pre-planting surveys for new participants; schedule consultations and carry out consultations in backyards with homeowners; process orders for trees, shrubs and kits
April – May	Devise efficient planting routes; make notification calls to participants (informing them of planting date); carry out delivery/planting
June - August	Order nursery stock for fall planting season; schedule and carry out follow up visits of previous plantings to evaluate tree health and provide personalized care tips for homeowners
September-November	Devise efficient planting routes; make notification calls to participants (informing them of planting date); carry out delivery/planting

November	Send out participant feedback surveys
December	Final project report

Environmental Benefits of Project

Home to over 310,000 people and covering 212 square kilometres of land, Markham is one of the fastest growing municipalities in Ontario (according to the City's website). Byproducts of urbanization such as heat, combustion and chemical emission negatively impact the health of our environment and that of residents living in densely populated areas, yet our urban forest can help to reduce the harmful effects (and associated costs) of city living. That said, in recently developed subdivisions, mature trees are often rare and soil quality is typically poor. With the added loss of trees that will result from EAB infestation, canopy cover that can protect and improve the well-being of our communities is under threat.

According to a recent study undertaken in York Region (York Region Urban Forest Study, Draft Summary Report, February 2012), benefits provided by the City of Markham's urban forest include:

Carbon Sequestration and Storage: Trees and shrubs in densely populated areas help to mitigate the effects of climate change by sequestering (absorbing) carbon, which is then stored as woody biomass. The amount of carbon a tree is able to store is directly related to its size, meaning that it is vital that the trees we plant have the best possible chance of reaching maturity, and that large, healthy trees in the urban landscape are protected. In a given year, the urban forest in Markham accounts for:

- Total carbon storage (t): 226,382
- Carbon Storage Per Hectare (kg/ha): 10644
- Net Annually Carbon Sequestration (t/yr): 9,089
- Annual Carbon Sequestration Per Hectare (kg/ha/yr): 345

Air pollution removal: The urban forest can improve air quality through the interception of particulate matter and absorption of air pollutants such as carbon monoxide, nitrogen dioxide, ozone and sulphur dioxide. In Ontario, exposure to these very pollutants was linked to approximately 17,000 hospital admissions and 60,000 emergency room visits in 2005, and these numbers are expected to increase to over 24,000 and 88,000 respectively by 2026 (Ontario Medical Association, *The Illness Cost of Air Pollution*, 2005). Each year approximately 830 tonnes of air pollution are removed by trees and shrubs in Markham, Richmond Hill and Vaughan, and the value of this service is approximately \$7.2 million annually.

Energy Conservation Savings: When planted strategically on residential properties, trees can shade homes during the summer and can offer protection from cold winds in

winter months. This results in a reduced demand for cooling and heating, thereby lowering energy costs for residents and reducing emissions from power plants. Annual savings in residential energy expenditures for Markham are:

- Natural Gas: \$1,441,000/year
- Electricity: \$576,000/year
- Carbon Avoided: \$75,700/year
- Total: \$2,092,700/year

Stormwater management: Since urban stormwater runoff is a major source of water pollution for lakes and rivers, the attenuation of this rainfall by trees and shrubs in the City of Markham is crucial. Our urban forest can reduce the volume of water that reaches the ground at a given time by intercepting rainfall on its leaves and branches. In addition, root systems of trees and shrubs absorb water and can increase the infiltration of rain into the soil, further reducing stormwater runoff. This takes the stress off municipal infrastructure that may combine storm and sewer overflows during storm events, allowing untreated water to reach our rivers and lakes. The effects of canopy cover on stream flow in the West Don and Upper Rouge subwatersheds were simulated using the i-Tree Hydro model for the York Region Urban Forest Study. Results showed that a loss of existing tree cover in the Upper Rouge subwatershed (27 per cent) and in the West Don subwatershed (11 per cent) would increase total stream flow by an average of 2.9 per cent and 1.0 per cent respectively during the simulation period.

The City of Markham is working to become a recognized leader in environmental standards by implementing policies such as those outlined in the Greenprint Sustainability Plan (2011). LEAF's Backyard Tree Planting Program supports a number of the priorities outlined in the Plan, including Ecosystem Integrity, Energy and Climate, Individual Health, Education and Skills, Water Efficiency and Food Security.

Ongoing Maintenance and Monitoring Following Project Completion

We work with our participants to ensure that the trees planted through our program will have the best possible chance at reaching maturity. Since larger trees with greater leaf area density provide maximum environmental benefits, doing all we can to ensure that these recent additions to Markham's canopy get the care they need to thrive for years to come is a major priority for us.

We accomplish this by:

- Asking participants to contribute a portion of the cost for their tree and to make a commitment to caring for it.
- Making tree care education a vital part of our planting program.

- Providing ongoing support for participants.
- Conducting follow up visits to confirm continued high quality of tree selection and planting practices, sound tree health and high survival rates.

Our program is offered to Markham residents at a subsidized rate (rather than free of charge) because we believe that when participants make a financial contribution towards the purchase of their tree, they are more likely to commit to providing the ongoing care that it needs to flourish.

Proper preventative tree care and maintenance methods are emphasized through one-on-one education that begins when a participant completes our pre-visit questionnaire to sign up for the Backyard Tree Planting Program, and continues through to the time of planting (and bi-annually thereafter through our client newsletter). At the consultation, we provide homeowners with a package of printed materials, and we deliver an additional care guide when we return to plant their tree (which emphasizes the “do’s and don’ts” of watering, mulching, staking, fertilizing and pruning).

We also let our participants know that if they have questions or concerns about their trees or shrubs in future years, we are happy to help. Our website contains a section dedicated to client resources, and provides homeowners with general tree care fact sheets and videos, as well as a portal through which they can request advice from our arborists. If needed, we will also perform a special site visit.

In addition, each summer we carry out follow up visits at randomly selected homes where we’ve planted trees in past seasons. Our arborists conduct evaluations using indicators of tree health developed by Dr. Andy Kenney, University of Toronto, and we use the information gathered during these visits for ongoing monitoring, evaluation and improvement of our planting programs. Prior to these visits we secure permission to enter the property, and upon completion we share with homeowners the results of our assessment and personalized advice for their tree(s).

Indicators of Success

- Number of trees and shrubs planted tracked through participant database
- Satisfaction of participants and success of educational messaging measured through post planting questionnaires/interviews
- Survival rates and health assessments of trees planted measured through follow up site visits

We will measure our long-term success with ongoing monitoring and evaluation. For these purposes, we maintain a database in which we store detailed information such as site conditions, planting conditions, tree health when planted, tree health several years after planting, homeowner satisfaction and homeowner engagement in tree care. This allows us to ensure that the quality of our customer service, tree selection and planting practices, and educational messaging remains high.

In addition, we will collect information through our pre- and post-planting questionnaires that will enable us to monitor changes in awareness and behavior resulting from participation in our Backyard Tree Planting Program. These questionnaires help us to track motivations for planting, understanding of energy savings provided by strategically placed trees, understanding of need to support green infrastructure, homeowner engagement and willingness to care for trees on private and public property. By monitoring this data, we are able to adapt our program in order to meet the needs and fulfill the expectations of our participants.

Promotion of MTTF Fund

LEAF is committed to ensuring a mutually beneficial relationship between itself and its partners. We will provide the opportunity for recognition of all supporting partners in publications and communication materials. We will also seek media coverage of the project, recognizing Markham's contribution to the success of the program.

Specific recognition will include:

- ✓ Acknowledgement in LEAF annual report
- ✓ Acknowledgement in the LEAF e-newsletter which currently reaches over 3700 individuals
- ✓ Recognition on LEAF web site which receives over 45,000 hits per year
- ✓ Logo recognition on LEAF print material distributed at all events, workshops and to Backyard Tree Planting Program participants
- ✓ Recognition in press interviews whenever possible
- ✓ Social media mentions through Facebook and twitter (shared and mentioned where applicable - joint events, tree tours, relevant program highlights, news etc.)
- ✓ Invitation to special LEAF events including our annual celebration
- ✓ Recognition at LEAF annual general meeting
- ✓ Use of LEAF name and logo in the City of Markham promotional/educational materials (terms and conditions to be negotiated)
- ✓ Articles and other written/photographic content as requested by the City Markham (terms and conditions to be negotiated)

Project Team

Janet McKay, Executive Director – Overall project direction

Melissa Williams, Manager, Residential Planting Programs – Project management and development

Andrea Bake, Field Operations Supervisor – Site consultations, education and field supervisor

Jessica Piskorowski, ISA Certified Arborist - Site consultations

Matthew Higginson, Coordinator, Marketing and Communications – Promotions, Marketing and Design

Other Funding Sources/In-Kind Support

Other funding sources include:

York Region - \$15,000

Ontario Power Generation - \$10,000

Project Revenue (program participant fees) - \$37,000

In-kind - \$9,000

See attached budget for details.

Educational Sign Component

We will display temporary lawn signs in front yards of participants' homes, following their consultation. These signs are an easy way for participants to promote the program in their neighbourhood. They read, "We're planting a tree in our backyard...Get yours today!" and direct individuals to the LEAF website to find out more about our Backyard Tree Planting Program and about our partners. Signs are then picked up from the participants at the time of planting.

Proposed Budget - LEAF's Backyard Tree Planting Program - Markham 2013

Item	MTFT	York Region	Ontario Power Generation	Client Fees (project revenue)	Total Cash	In-kind
Project Management - hiring, training and management of staff, project planning, partnership development, communications, promotions, media, financial management, progress reports to LEAF Board and funders		4900	4900		9800	
Office coordination (responding to inquiries, registration, consultation bookings, route planning, order and payment processing, planting notification calls, planting scheduling, ongoing client communication, database management, record keeping and status reports)	6000	5400	600		12000	
Yard consultations with property owners	6500	4700		1800	13000	
Planting	6700			6700	13400	
Follow-up/data collection, analysis and reporting			2500		2500	
IT systems and web improvements			1000	1500	2500	
Communications/printing/advertising			1000	3000	4000	
Equipment costs				800	800	
Plant materials (with taxes, delivery)	8300			8400	16700	
Transportation (site consultations)	1000			1000	2000	
Transportation (planting)	1500			2000	3500	
Tree storage space (in kind)						4000
Educational materials				2200	2200	
Promotions (in kind from partners)						5000
Office rent						
Insurance				4800	4800	
Bookkeeping				1200	1200	
Office expenses (phones, printer cartridges, etc)				3000	3000	
				600	600	
Totals	30000	15000	10000	37000	92000	9000

\$328 - average per-tree cost to deliver program

\$196 - per tree subsidy

\$132 - average per tree cost to homeowners

280 trees

165 homes

average 1.7 trees and 1.4 shrubs per home



101 Town Centre Boulevard,
Markham, Ontario, L3R 9W3

Markham Trees for Tomorrow Fund Applicant's Guide and Application Form

What is the Markham Trees for Tomorrow Fund (MTTF)?

Trees provide substantial environmental, social and economic benefits to our community. In addition to providing measurable improvements to air quality and reduction of atmospheric carbon, trees help to prevent soil erosion, reduce energy consumption and provide habitat for wildlife. With the Markham Trees for Tomorrow program, more than 75,000 trees will be planted by 2010. This fund provides grants for tree planting projects to an upset limit of \$30,000.

Who Can Apply?

- Markham Community Groups
- Non Governmental Organizations
- Public Agencies

All plantings must be on publicly owned and accessible lands in the City of Markham.

What are the Program's Requirements?

Applications will be considered by the Environmental Issues Committee for recommendation to General Committee and Council.

All applications must:

- involve the active participation of community volunteers
- identify other sources of funding raised by the applicant

All applications must include:

- **detailed site plan** prepared by a landscape architect or certified forester, describing existing site conditions, any necessary site preparation prior to planting and how the site is to be accessed before, during and after the planting
- **detailed planting plan** prepared by a landscape architect or certified forester, including: species list, planting specifications and cost estimate; and briefly state the rationale behind species selection, planting densities and distribution within the context of the planting site; start and end date for the project
- **detailed event planning logistics** such as: locations of pathways; staging areas for the temporary placement of trees, mulch and other supplies; parking and traffic control requirements
- **written commitment** to monitor and provide follow up maintenance to ensure long term success for the project

What are the Funding Criteria for an Application?

- applicants can request a maximum of \$30,000 from the MTTF per project per year for projects that will be completed within that same one-year time frame (12 months from issuance of cheque)
- only materials and equipment costs (not consulting services) are eligible for funding from the MTTF
- any groups that received funding for projects which have not been completed to the satisfaction of the Town are not eligible for future funding
- funding will not be granted where projects have been commenced.

When are the application deadlines?

Applications must be submitted by February 15, 2013 for Spring funding.

How Do I apply?

- Step 1** Contact the Parks Planner about your proposed project and to request an application form. (Telephone: 905-477-7000 ext. 3226
e-mail: ntakata@markham.ca)
- Step 2** Complete the Application Form. Please ensure that it is legible and signed.
- Step 3** Prepare required supporting information, such as illustrations and maps and attach them to the application form. In the event the Registered Owner of the lands is an entity other than the City of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies with all its applicable policies and requirements; and, that the writer has the authority to give its consent. Sufficient and complete information must be provided with the application for the Environmental Issues Committee to make a decision.
- Step 4** Submit your application to the Parks Planner, Operations, City of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3.

Application Checklist

Please ensure that your application is complete. Are the following included in your submission?

- A complete and signed application form, including all budget and funding details
- All supporting documentation such as a detailed site plan, species list, planting specifications etc.
- Consent letter from registered owner, if applicable

What will happen next?

The Environmental Issues Committee will review all applications taking into account the established objectives and criteria described above. They may choose to grant the right to the applicant to present their proposal, if requested. They will determine which projects should be funded and how they should be funded (in a single payment or in phases) and make a recommendation to General Committee and Council.

How will I be notified?

An acknowledgement will be sent upon receipt of an application. If your project is approved for funding, you will be contacted. If your application is not approved, you will be informed in writing.

What happens after the Project is completed?

Upon completion of the project and no later than 12 months from delivery of the funding, you are required to submit your project report. Include a project summary and photos so we can review and promote your project, together with the completed consent forms permitting use of your photographs by the City (copy attached).

What does a Project Report Contain?

- accounting of how all funding has been spent
- original copies of paid invoices
- photographs for review and promotion of the project
- completed consent form for use of photographs

A project format will be provided to assist you in preparing the report

Application Form

For Office Use Only - Project No.:

Group Information

Name	10,000 Trees for the Rouge		
Address	13, Dolan Drive, Palgrave, Ontario L7E0E1		
Phone	905-880-9116	Fax	
Email	cpc42@rogers.com	Website Address	www.10000trees.com
Charitable/Non Profit Organization registration # (if applicable) 12981 4729 RR0001	Our Group has a bank account in the name of our organization Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Briefly describe what your group does:

The mandate of 10,000 Trees for the Rouge is the creation of wildlife habitat through the planting of native trees and shrubs.

10,000 Trees for the Rouge has been planting native trees and shrubs in the Rouge watershed for the past 23 years, many of those plantings occurring in Markham.

The group, which is all volunteer, donates their time and efforts to restoring natural habitats to a high level of ecological function. The main planting event is held in late April, and attracts the public participation of over 2000 community members, as well as media and political attention. Smaller plantings are carried out in the Fall, and consist primarily of maintenance plantings.

Monitoring and maintenance of plantings continues through the growing season, and all sites are monitored until our Registered Forester declares that the planting is in a "free to grow" stage. Maintenance of past plantings is part of our system, but the amount of maintenance is entirely dependent on funding.

To date, our group has been responsible for planting approx. 169,000 native trees and shrubs, helping to restore some 171 acres back to natural habitat.

Project Manager

Additional Contact

Name	Colin Creasey	Name	Marshall Buchanan
Title	Chairman	Title	Registered forester
Phone (work)	905-450-4634	Phone (work)	613-649-2190
Phone (home)	905-880-9116	Phone (home)	613-649-2190
Email	cpc42@rogers.com	Email	moonlightcrofters@gmail.com

Project Summary

Title	24 th . Annual Wildlife Habitat restoration project		
Location of Project	7551 Reesor road, Markham, Ont.		
Name of Registered Owner of the Lands	TRCA		
Address of Registered Owner of the Lands	5, Shoreham Drive., Downsview, On. M3N 1S4		
Contact Name for Registered Owner of the Lands	Bob Clay		
Phone # Registered Owner of the Lands		Duration (months, maximum 12 months)	
Request for	Spring Funding \$22,000	Fall Funding	Either
Start Date of Project	April 1 st . 2013	End Date	October 31 st . 2013

Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project. This description should include:

- ❖ Description of the Project Team
- ❖ Project overview and detailed project plan (include workplan with timelines; detailed site and planting plans; monitoring and follow up maintenance schedules)
- ❖ Identify and where possible quantify the environmental benefits associated with the project
- ❖ Who will maintain and monitor the project after completion? (please provide contact information)
- ❖ How will you promote the MTTF fund with this project?
- ❖ Describe other funding sources/in kind support
- ❖ Will there be an educational sign component? If so, please describe

Our project team is composed of dedicated volunteers who represent a wide range of occupations, a teacher, scout leaders, landscape workers, business people, engineers, a web designer, an arborist, and a registered professional forester. Most have over 10 years, and some over 20 years, of experience in implementing these kinds of projects.

Public Relations Committee; Sponsors, and politicians at all levels, are invited to attend the event, and take part in the ceremonial tree planting. All the local media, print, radio, and television, are contacted approx. one month prior to the event, and again the week of the event. We often give interviews to the local media, where there is the opportunity to recognize the support of the City of Markham, TRCA, and the Rouge Park.

Volunteer Committee; A flyer for the event is designed and posted on-line, and mailed out to approx. 900 planting volunteers on our mailing list. We are in process of establishing a web base of our volunteers, so that we can go paperless in the future. The flyer is also sent to church groups, scouting groups, and schools, and is posted in local community centres and libraries.

Fundraising Committee; Searches to find new funding sponsors, both monetary and in-kind, and prepares fundraising applications and final reports.

Landscape Committee; Works with our forester on the design of the site. Once species are selected, then tenders with detailed tree specifications are sent to suppliers. The committee is responsible for the organizing of the stock on site, and ensuring trees and shrubs are distributed to the correct planting locations. Planting managers are trained in advance on proper tree planting techniques, and on planting day, they lead groups of volunteers to specific areas, and then both instruct the volunteers, and oversee the plantings.

Site Preparation Committee; Ensures that equipment and services are on site. Equipment (shovels, buckets, signs, tents, water pumps, hoses, tree guards, tables, etc.), are purchased as necessary and kept in working order. Safety services are looked after. St. John Ambulance is contacted, and police are hired to direct traffic. Portable washrooms are arranged, as well as a free lunch for the volunteers. At the end of the day, this committee is responsible for clean up of the site.

Work plan, site plan, planting and maintenance plans are on accompanying sheets 3a, 3b, and 3c.

Environmental benefits; The trees that we plant will clean the air, and filter run-off water before it enters our rivers. By increasing forest cover, we will be encouraging the return of forest interior dwelling wildlife that has been extirpated from the area. This biodiversity will increase as the forest matures. TRCA has also built a small wetland on the property, which will increase species diversity on the site.

Maintenance; This is under the direction of our forester, Marshall Buchanan. His contact information is on the lead sheet.

Promotion of MTTF; This will be done through our flyer, (see under "Volunteer Committee" above), our site sign, and through photos taken on planting day being posted on their website. The local papers, and sometimes larger daily papers, often run articles and pictures of our event. Our own website also carries pictures and information, and acknowledges the support of Markham Trees For Tomorrow.

Funding Sources; See accompanying sheet 3d.

Educational signage; Posters are used on site to instruct in proper tree planting. This reinforces the hands-on instruction provided by our trained planting managers. As well, a sign in each area indicates what plant species are being planted there.

Please also provide a cost summary including (please use attached budget forms on pages 4 and 5 to this application to provide details of the costs)

Total Project Cost	\$149,392	Amount requested from the MTTF	\$22,000
Amount from other sources	\$127,392	In- Kind support hours	5300

BUDGET FORM – HUMAN RESOURCES (Volunteers)[illegible]

BUDGET FORM (Please see attached budget, pages 5A & 5b, for full details)

Materials, Supplies and Equipment	Cost			MTFT	Other
	# of units	Unit Cost \$	Total Cost \$		
Toilets/washstands	3 + 2		900	200	700
Truck rental	1	600	600		600
Buses for volunteers	8	500	4000	1200	2800
Stakes	200	2.50	500		500
Irrigation supplies			100		100
Peat moss	25	15	375		375
Habitat structures	12	180	2160	1000	1160
Shovels	50	15	750	200	550
Tree guards	2500	1	2500	900	1600
Rope	10	36	360		360
Flagging tape	12	3	36		36
Trees	5300	5.66	30000	15000	15000
Shrubs	1000	2.50	2500	1000	1500
Ferns	50	5	250		250
Maintenance contractor	1	2500	2500		2500
Replacement trees	500	10	5000	2500	2500
Regeneration report	1	900	900		900
Temporary site sign			300		300
Food for BBQ lunch			2000		2000
Equipment rental & site preparation			1000		1000

Other Expenses

(e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
Insurance					900
Fundraising	100	25	2500		2500
Police/road closure			1500		1500
St. John Ambulance	1	250	250		250
Database	1	300	300		300
Flyer, stamps, photocopying & developing			2250		2250
Total				22000	42431

How did you organization hear about the MTTF? (Please check one)

City Website	_____	Newspaper advertisement	_____	Word of mouth	_____	Other	<u> X </u>
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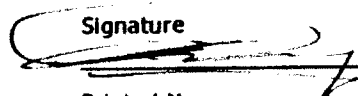
Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Parks Planner, Operations, City of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-477-700 ext.3226 Fax 905-940-1550. Photos may be posted on the City's website.

Applicant's Signature

I hereby make application for funding from the Markham Trees for Tomorrow Fund, declaring that all information contained herein is true and correct and acknowledging that the City of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

1. to comply with all relevant policies and secure all permits required for this project and acknowledge that the City bears no responsibility or has any liability in any manner with respect to this project.
2. that the Town reserves the right to review communications and communication materials to be presented to the public to ensure compliance with City policies, including the City's Communication Standards.
3. to promote the Markham Trees for Tomorrow Fund on any communication materials, or signage associated with this project and will provide a detailed report on the project outlining how the funds were used to support the project upon completion of the project and no later than 1 year from receipt of the funding.
4. to allow the City of Markham to use the project name and any images associated with the project to promote the Markham Trees for Tomorrow Program.
5. to return all unspent funds to the City of Markham upon completion of the project.
6. that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the City of any conflict of interest situation should it arise in carrying out of the project.
7. permit the City of Markham to claim ownership of all carbon credits and other measurable ecological services resulting from the project.

Signature  Title Chairman, 10,000 Trees for the Rouge
 Printed Name COLIN P. CREASEY Date 22 January 2013

In the event the Registered Owner of the lands is an entity other than the City of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.

Personal information contained herein is subject to the Municipal Freedom of Information Act and the Personal Protection and Electronic Documents Act. The information collected may be used for promotional purposes. Completion of this form constitutes consent by the applicant to these terms and uses.

OFFICE USE ONLY					
Date Application Received			New Applicant?	Yes	No
Approved/Not Approved	Yes	No			
Acknowledgement Letter Sent?	Yes	No	Date Sent		
Letter of Approval or Rejection Sent?	Yes	No	Date Sent		
Final Report Received?	Yes	No	Date Received		
Photos Received?	Yes	No	Date Received		
Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No

Markham Trees for Tomorrow Fund


Photo Consent and Release Form

I, COLIN P. CREASEY hereby permit and authorize the
(Print in full - first, middle initial & last name)
City of Markham (the "City") to take my photograph/image.

I acknowledge and agree that the City may publish or use the image for any City purposes by any means whatsoever including, but not limited to electronic or digital means. I acknowledge that the Town may not be able to control the distribution or use of the image by other than Town representatives.

I agree that this Consent and Release is given in perpetuity and for no consideration, credit, acknowledgment or financial recompense, now and in the future.

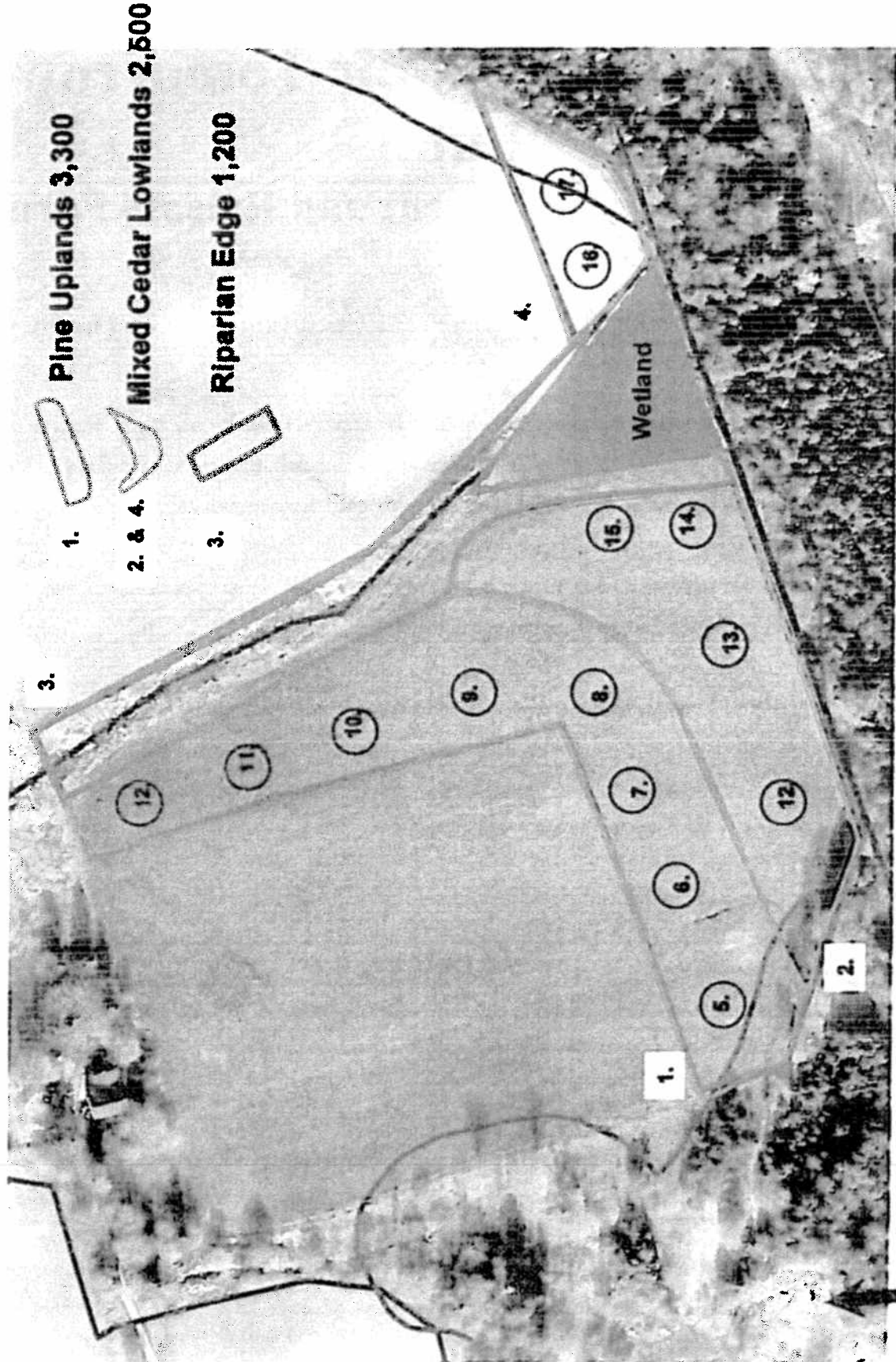
I hereby hold the City harmless for any claims, actions, debts, damages, injuries or losses that may arise or be incurred as a result of the taking, use, publication or distribution of the image and I agree to indemnify the City against any third party claims, actions, damages, injuries or losses brought or assessed against or incurred by the Town for the use of the image(s).

Contact Information					
Signature			Date	22 January 2013	
Address	13, Dolan Drive				
City	Palgrave	Province	Ontario	Postal Code	L7E 0E1
Telephone	905-880-9116			Email	Cpc42@rogers.com
City of Markham:					
City Representative			Date		

10,000

FOR THE ROUGE

Forest Succession 2013



7,000 Trees & Shrubs + 50 Herbs	Drawn: January 18 th 2013	Drawing: Marshall Buchanan, Registered Professional Forester
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North

Forest Succession 2013 Species List

10,000
FOR THE ROUGE

Common Name	Latin name	Total per Species	Grand Total
Coniferous Trees (36%)			
Eastern white cedar	<i>Thuja occidentalis</i>	1000	2,500
White pine	<i>Pinus strobus</i>	1500	
Deciduous Trees (39%)			
Black walnut	<i>Juglans nigra</i>	200	2,700
Basswood	<i>Tilia americana</i>	100	
Birch, white	<i>Betula papyrifera</i>	150	
Cottonwood	<i>Populus deltoides</i>	500	
Black cherry	<i>Prunus serotina</i>	300	
Red maple	<i>Acer rubra</i>	300	
Red Oak	<i>Quercus rubrum</i>	100	
Sugar maple	<i>Acer saccharum</i>	300	
Aspen, largetooth	<i>Populus grandidentata</i>	500	
Bur Oak	<i>Quercus macrocarpa</i>	150	
Shrubs (25%)			1800
Bebb's Willow	<i>Salix bebbiana</i>	200	
Buttonbush	<i>Cephalanthus occidentalis</i>	200	
Chokecherry	<i>Prunus virginiana</i>	200	
Nannyberry	<i>Viburnum lentago</i>	200	
Pussy Willow	<i>Salix discolor</i>	200	
Red osier dogwood	<i>Cornus stolonifera</i>	400	
Sumac	<i>Rhus typhina</i>	200	
Serviceberry	<i>Amelanchier canadensis</i>	200	
Herbs			50
Ostrich fern	<i>Matteuccia struthiopteris</i>	25	
Sensitive fern	<i>Onoclea sensibilis</i>	25	
Total			7,050

10,000

FOR THE ROUGE

Work Plan, Maintenance & Monitoring Activities

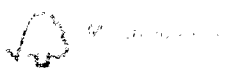
Activity Dates	Work plan
Project start April 1 st . 2013	Install Snags Begin installation of protective temporary fencing against deer browsing
April 27 th . 2013	Receive trees on site, distribute, and heel in place Instruct planting managers on site layout and planting methods
Planting Day April 28 th . 2013	Host about 2000 volunteers Supervise and coordinate volunteers to get trees and shrubs planted Install tree guards to reduce damage from meadow voles.
Maintenance May, 2013	Receive students and some corporate volunteers, in small number, 30 to 100 people, during weekdays to do mulching, install more tree guards, and do some infill planting
June to August 2013	Photograph progress of reforestation. Monitor trees and shrubs to verify initial viability, that buds have flushed, and leaves have emerged. (i.e. trees are alive) Monitor for insect herbivory (caterpillars, etc.) Monitor for wildlife use. Conduct regeneration survey.
Maintenance September to October 2013	Replant areas where trees did not survive, or areas that could not be planted in the Spring. Receive students and some corporate volunteers, in small number, 30 to 100 people, during weekdays to do mulching, install more tree guards, and do some infill planting

10,000

FOR THE ROUGE

Forest Succession 2013 – Source Contributions

Sponsor	Purpose	Cash Donation	In-kind
City of Markham	Maintenance, plant materials, picnic tables, pylons, mulch, refuse pickup	\$22,000.00	\$4,000.00
Rouge Park	Maintenance, plant material, lumber supplies	\$22,000.00	
Dow Chemical	Insurance, website, traffic and ambulance services	\$2,000.00	
10,000 Trees Volunteers	Administration, fundraising, tree ordering, site Staking, heeling in trees, tree planting, mulching	\$4431	\$65,866.00
Symbiotic	Site surveys, mapping, fundraising, accounting & Ecological planting		\$4,000.00
Agincourt Rotary	Food & beverage service, barbecues		\$820.00
John Johnson Landscaping	2 ATV's and trailers		\$1,000.00
Metro Toronto Zoo	Storage space		\$1,200.00
Toronto Region Conservation Auth.	Administrative support, site preparation, cover crop, water supply		\$5,000.00
6 th . Pickering Amberlea Venturers	Install snags, site staking, unload trees		\$3,075.00
EcoAction	Plant materials, snags, maintenance	\$10,000.00	
CIBC Mellon	Truck rental, shovels, tree stakes, toilets, flyer Printing, postage, fundraising.	\$4,000.00	
	Totals	\$64,431	\$84,961



10,000 Trees for the Rouge Valley SPRING PLANTING BUDGET - 2013				
SERVICES	Explanation	Project Payments \$	In Kind Donations \$	Value of Project \$
Executive Meetings	(8 Exec.mtg. @ 2.5hrs. @ \$10.25 x 10 people)		2,050	2,050
Training planting managers	(25 volunteers @ 2 hrs. @ \$10.25)		513	513
Volunteers to plant trees	(2,000 volunteers @ 2.5 hrs. @ \$10.25)		51,250	51,250
Volunteers to mulch trees	100 @ 3 hrs @ \$10.25		3075	3075
			55,888	55,888
ADMINISTRATION				
Insurance		900		900
Sign-in sheet			100	100
Accounting	(12 months @ 2hrs/month @ \$40.00)		960	960
Fundraising	(4 people x 25hrs. @ \$40.00)	2,500	1,500	4,000
		3,400	2,560	5,960
SITE PREPARATION				
St. John Ambulance		250		250
Food / Beverages	(8 people x 10 hrs. x \$10.25 - Agincourt Rotary)	2,000	820	2,820
Site preparation	(35 people x 10 hrs. @ \$10.25)		3,588	3,588
Road & Tree Signs	(5 people x 4 hrs. @ \$10.25)		205	205
Road closure/police services		1,500		1,500
Town of Markham	(picnic tables, recycling containers, pylons, vests)		2,500	2,500
		3,750	7,113	10,863
ECOLOGICAL PLANNING				
TRCA				
Symbolic Consulting	Site prep., cover crop, water, admin. support		5,000	5,000
	Ecological planning, mapping, site inspections		4,000	4,000
			9,000	9,000
EQUIPMENT/MATERIALS				
Rental				
Storage space			1,200	1,200
Sign-in tent			450	450
Waikie Talks			300	300
Equipment rental + soil prep.		1,000		1,000
ATVs	(John Johnson Landscaping)		1,000	1,000
Toilets / Washstands		900		900
Truck		600		600
Barbecues	Agincourt Rotary		600	600
Irrigation supplies	2 pumps with hoses for 2 days - Markham	100		1,100
Generator			1,000	1,100
Buses	8 @ \$500/day.	4,000	150	150
		8,600	4,700	4,000
				11,300
MATERIALS				
Stakes	(200 x \$2.50)	500		500
Healing in Material	25 bales peat moss @ \$15	375		375
Water	TRCA supplied		500	500

Mulch	(6 trucks @ \$250)	1,500	1,500
Coarse woody debris	10 cords @ \$80	800	800
Habitat structures	(12 snags @ \$180)	500	2,880
Shovels & Buckets	(50 shovels @ \$15)	750	800
Tree guards/Brush mats	(2,500 tree guards @ \$1.00)	2,500	2,500
Rope	10 reels @ \$36 (May be donated)	360	360
Flagging tape	12 rolls @ \$3	36	36
Plant Material		6,881	3,350
Trees	5300 @ \$5.66		30,000
Shrubs	1,000 @ 2.50		2,500
Ferns	50 @ \$5.00		250
Wildflower plugs			
MAINTENANCE		32,750	32,750
Contractor	(1 person @ \$50.00 x 50 hrs.)		
Replacement Trees	500 @ \$10	2,500	2,500
Regeneration Report		5,000	6,000
		900	900
ADVERTISING & PROMOTION		8,400	8,400
Flyer & envelopes			
Stamps for volunteer mailing		1,300	300
Photocopying		650	650
Photo developing/CD copying		100	150
Temporary site sign		200	200
Database/website management		300	300
		300	600
		2,850	1,350
			4,200
TOTAL PROJECT COST		84,431	84,961
			149,392

Markham TFT Budget - FRW Habitat Restoration in BHMP 2013					
Description	Units	Cost/Unit	Total	Total	Markham
		(\$)	Cash	In-kind	TFT
Trees, Materials, Supplies, Site Prep (subtotals)			57,325	17,500	16,800
Native evergreens (2+2, 2+1, 20 - 50 cm BR)	2,500	1.20	3,000		1,000
Native evergreens (60 to 80 cm B&B)	300	16.00	4,800		3,000
Caliper silver, sugar and red maple (50 mm truck diameter)	25	150.00	3,750		750
Tall native deciduous trees (150 to 200 cm, container grown)	1,300	11.00	14,300		6,000
Smaller native trees and shrubs (40 to 60 cm, plug & container)	2,375	5.00	11,875		2,250
Native wild flowers (plugs and pots)	4,500	1.80	8,100		1,800
Native grass seed (kg)	50	50.00	2,500		
Native wildflower seed (kg)	20	200.00	4,000		
Tree spiral guards (\$1), tubex (\$2) and weed blankets	2,000	1.50	3,000		1,000
Watering pump, hose, nozzles, supplies (drought relief)			1,000		500
Shovels, wheel barrows, buckets, hose, etc			1,000		500
Tractors, backhoe, soil placement, site preparation	175	100.00		17,500	
Human Resources (subtotals)			32,000	47,775	11,700
30 school class plantings (30 students/class) (volunteer hours)	2500	10.50		26,250	
3 Co-op Students & 6 Foreign Ex. Students (volunteer hours)	500	10.50		5,250	
3 Business /Community Group plantings (volunteer hours)	1250	10.50		13,125	
Hillside Outdoor Ed. Staff & Teachers (2 per class, hours)	300	10.50		3,150	
# Trees X watering, weeding, rodent guarding and maintenance	6,500	0.40	2,600		
# 5G buckets of mulch for trees / unit cost	10,000	0.15	1,500		
Rodent guard / Tubex removal/maintenance of site for three years	2,000	0.20	400		400
Coordinate 30 school planting days X 3 FRW staff (hours)	750	22.00	16,500		8,300
Coordinate 3 business /community group plantings (FRW hours)	120	25.00	3,000		
Fundraising and Grant Applications	60	25.00	1,500		
Project Supervision, Admin. and Reporting	60	25.00	1,500		1,000
Restoration Project Planning, Approvals & Partner Liaison	60	25.00	1,500		2,000
CRRA Payroll Deductions, WSIB and 4% Vacation Pay			3,500		
Vehicles (subtotals)			6,550	12,500	1,500
2 trucks (insure, license, fuel, maintain, etc.) (days/\$day)	42.5	100.00	4,250	5,000	
Cube van rentals (for plant pick-ups)	4	300.00	1,200		1,500
3 Trailers (safety certificates, welding, lights, etc)			1,100		
Buses for classes/volunteers	30	250.00		7,500	
Other (subtotals)			3,700	0	0
Project Bookkeeping	32	25.00	800		
Audit, T4s, Charitable and GST returns, etc			800		
Liability Insurance, Office Rent, Overhead			1,200		
Phones, computers, website, etc.			900		
Page Totals			99,575	77,775	30,000

Donald Cousens Parkway

14th Avenue

BHMP: South of 14th Avenue, East of Havelock Rail Line

Lat/Long: 79 12' 55", 43 51' 37"

Concession/Lot: Con 9, part lot 5, Markham, ON

Area: 3.0 ha

Recent cover: Weeds

Soil type: TRCA Fill (2011, 2012)

Topography: Gentle to medium sloped berm

Site prep: Topsoil required (TRCA, fall 2012)

Seeding: Native tree, shrub, flower & grass

Site Prescription (see Table A for details)

Fresh to moist; deciduous tree/shrub spp.:
Bw, Sa, Or, Ow, Hb, Cc, As, Ss, Hw, Pw

Fresh to moist; coniferous tree/shrub spp.:
Pw, Cw, Sw, Pot, Poec

--- Site access

--- Drainage channel



TRCA culvert/channel crossing

Image © 2012 DigitalGlobe
© 2012 Google

85 m












Google earth

43°51'36.60" N 79°12'52.31" W elev 167 m

Eye alt 535 m

FRW 2013 Planting Sites - BHMP Rouge Park Context

Legend

-  Rouge Park
-  Federal lands in Rouge Park
-  Bob Hunter Memorial Park
-  Greenbelt
-  Watercourse
-  Lakes and Ponds
-  Highways
-  Roads
-  Railway
-  Municipality
-  Toronto Zoo



**Bob Hunter Memorial Park
Restoration Site**

Bob Hunter
Memorial Park

Woodlands
Area

Toronto
Zoo

Celebration
Forest

Twyn
Rivers Area

Glen
Eagles Vista

Glen Rouge
Campground

Rouge Beach

Lake
Ontario

Whitchurch-Stouffville

Markham

Pickering

Toronto

[illegible]

TORONTO

M

Bob Hunter Memorial Park Restoration Site

LEGEND



Wages
In 1960, the average wage in the U.S. was \$1.50 per hour.
In 1970, the average wage in the U.S. was \$2.50 per hour.
In 1980, the average wage in the U.S. was \$4.00 per hour.
In 1990, the average wage in the U.S. was \$6.00 per hour.
In 2000, the average wage in the U.S. was \$10.00 per hour.
In 2010, the average wage in the U.S. was \$15.00 per hour.
In 2020, the average wage in the U.S. was \$20.00 per hour.

❖ **How will the benefits to the environment and your community be maintained after your project has been completed?**

FRW maintains and monitors our plantings until they are free-to-grow in several years. Our maintenance work involves:

- watering during first summer dry periods after planting;
- placing mulch, rodent guards and deer guards around hardwood trees;
- re-planting areas with low stocking due to fire, disease, rodents, drought or other mortality;
- removing invasive species where possible without chemicals;
- removing rodent guards after three to five years.

FRW's ecological restoration work is designed to reduce long term maintenance costs by accelerating succession towards a self-perpetuating mixed forest. Since the plantings are on public Bob Hunter Memorial Park lands in the Greenbelt, the benefits should be perpetual. With each passing year, the trees, shrubs and flowers will increase in size and beauty; absorb more CO₂; recycle and purify more water; filter more air pollutants; improve more soil with leaf mulch; provide more habitat and food for birds and wildlife; produce more seed to sustain the habitat; and provide more landscape beauty and parkland for the enjoyment of Markham residents.

❖ **Will there be an educational sign component. If so, please describe**

Rouge Park, TRCA, Markham and York Region are developing long term educational signage for BHMP. As the photo on the covering page of our application shows, FRW proudly displays Markham's Trees For Tomorrow banner at our planting events with school, community and corporate partners.

FRW Recognition and Awards:

- 2012 Toronto Live Green Award for Top Community Project
- 2010 Markham Trees for Tomorrow Recognition
- 2006 Green Toronto Award for Environmental Leadership
- 2004 Award of Excellence from Wildlife Habitat Canada and York Region
- 2002 Environmental Stewardship Award from Environment Canada
- 2002 Volunteer Involvement Awards from City of Toronto and Markham
- 2001 Rouge Park Award for Contribution to the Creation of the Rouge Park

Additional Pages - Attachments Summary:

1. Maps (x3) – Golden Horseshoe Greenbelt Context, Rouge Park Context and Restoration Plan
2. Table – FRW Project Budget
3. Table – Planting Numbers and Species by Site
4. Table – Workplan
5. Table – FRW 2013 Funding Partners
6. Quotes from FRW Partners and Patrons
7. TRCA Letter Confirming Funding etc
8. Hillside Outdoor Education School Letter – Jane Wadden
7. Mayor Frank Scarpitti Letter of Support
8. Deputy Mayor Jack Heath Letter of Support
9. Councillor Logan Kanapathi Letter of Support
10. EcoAction Letter – Confirmation of Funding
11. Trillium Foundation Letter – Confirmation of Funding

Additional Pages Required for Project Description

❖ Who will maintain and monitor the project after completion?

FRW will water and maintain the planted trees and shrubs for the first few years until they are free-to-grow. The long term maintenance of trees will be the responsibility of Rouge (National) Park and TRCA. In the summer, FRW hires University students (HRSDC) and coordinates volunteers and foreign exchange students to help water, mulch, weed, rodent guard, deer guard and maintain our plantings. Follow-up watering and maintenance is vital to planting success, particularly in dry and hot summers. FRW has two trailers with 350 and 500 gallon watering tanks, two water pumps, hundreds of feet of two-inch hose and access to water.

Surveys by Rouge Park staff show that FRW plantings have a survival rate of more than 90%, and the restored areas provide valuable habitat for many regionally, provincially and even nationally rare species. Rouge Park staff regularly monitors FRW restoration sites and prepares an annual report on: a) planting species, density, survival and growth; b) area of forest, wetland, riparian habitat and meadow restored; and c) habitat use by wildlife. The monitoring results are reviewed by Rouge Park, TRCA, MNR, Municipal staff and NGOs to evaluate and improve habitat restoration approaches and results.

FRW photographs and surveys our sites to establish baseline vegetation and environmental conditions, develop restoration prescriptions and obtain Rouge Park and TRCA approvals. After restoration, FRW monitors and photographs each site for several years to continually evaluate and improve our restoration work. FRW has a remarkable record of before and after photographs and field notes on biodiversity to demonstrate the success of our projects.

❖ What are the measurable benefits of this Project? Please see Project Activities/Benefits

❖ How will you promote the MTF fund with this project?

As the photo on the covering page of our application shows, FRW proudly displays Markham's Trees For Tomorrow banner at our planting events with school, community and corporate partners. FRW will also acknowledge Markham TFT support through media releases, newsletters, FRW's website, social media sites, and school, community and constituency newsletters. FRW events attract many dignitaries and good media coverage.

FRW will also highlight this project through: a) public nature walks and tours with MPs, MPPs, Councillors and other dignitaries; b) displays and power-point shows given to the public, our partners and dignitaries; and c) articles and photos submitted to MP, MPP and Councillor newsletters. FRW is planning for the participation of the following Markham and York Region schools and corporations:

Cedarwood Public School	All Saints Catholic Secondary School	Little Rouge Public School
William Armstrong PS	Lincoln Alexander Public School	Wilclay Public School
Highgate Public School	Markville Secondary School	Richmond Rose PS
Sam Chapman PS	Richmond Green HS (RH)	St. Veronica CS (Woodbridge)
Markham District High School	David Suzuki Foundation	Walmart
Unilever Canada	Rona	

❖ Describe other funding sources/in kind support

The other sources of Funding are summarized in the attached **Funding Partners Table**.

Markham Trees for Tomorrow Fund

Photo Consent and Release Form

I, _____ hereby permit and authorize the
(Print in full – first, middle initial & last name)
Town of Markham (the "Town") to take my photograph/image.

I acknowledge and agree that the Town may publish or use the image for any Town purposes by any means whatsoever including, but not limited to electronic or digital means. I acknowledge that the Town may not be able to control the distribution or use of the image by other than Town representatives.

I agree that this Consent and Release is given in perpetuity and for no consideration, credit, acknowledgment or financial recompense, now and in the future.

I hereby hold the Town harmless for any claims, actions, debts, damages, injuries or losses that may arise or be incurred as a result of the taking, use, publication or distribution of the image and I agree to indemnify the Town against any third party claims, actions, damages, injuries or losses brought or assessed against or incurred by the Town for the use of the image(s).

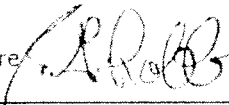
Contact Information					
Signature		Date			
Address					
Town		Province		Postal Code	
Telephone			Email		
Town of Markham:					
Town Representative		Date			

Applicant's Signature

I hereby make application for funding from the Markham Trees for Tomorrow Fund, declaring that all information contained herein is true and correct and acknowledging that the Town of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

1. to comply with all relevant policies and secure all permits required for this project and acknowledge that the Town bears no responsibility or has any liability in any manner with respect to this project.
2. that the Town reserves the right to review communications and communication materials to be presented to the public to ensure compliance with Town policies, including the Town's Communication Standards.
3. to promote the Markham Trees for Tomorrow Fund on any communication materials, or signage associated with this project and will provide a detailed report on the project outlining how the funds were used to support the project upon completion of the project and no later than 1 year from receipt of the funding.
4. to allow the Town of Markham to use the project name and any images associated with the project to promote the Markham Environmental Sustainability Fund.
5. to return all unspent funds to the Town of Markham upon completion of the project.
6. that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the Town of any conflict of interest situation should it arise in carrying out of the project.
7. that the Town is not a partner with the MTTF recipient.

Signature  Title G.M.

Printed Name Jim Bobb Date Feb. 14 / 2013

In the event the Registered Owner of the lands is an entity other than the Town of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.

Personal information contained herein is subject to the Municipal Freedom of Information Act and the Personal Protection and Electronic Documents Act. The information collected may be used for promotional purposes. Completion of this form constitutes consent by the applicant to these terms and uses.

OFFICE USE ONLY					
Date Application Received			New Applicant?	Yes	No
Approved/Not Approved	Yes	No			
Acknowledgement Letter Sent?	Yes	No	Date Sent		
Letter of Approval or Rejection Sent?	Yes	No	Date Sent		
Final Report Received?	Yes	No	Date Received		
Photos Received?	Yes	No	Date Received		
Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No

BUDGET FORM – HUMAN RESOURCES (Volunteers)

Service	Details		In- Kind Value (in hours worked)
	Number of People	Estimated Time for Each (hours)	
Markham and TDSB Students	1000	2.5	2500
Hillside OES Buses and Parent Support	5	100	500
Community and Corporate Volunteers	500	2.5	1250
Co-op and Exchange students	5	100	500
Other FRW Volunteers	25	10	250
Total	1535		5000 hours

2012 In-Kind Contributions - Markham Trees for Tomorrow - FRW Project

Contributor	In-kind Value	Description of In-kind Assistance
Markham and TDSB students	26,250	2500 hours of student, teacher and parent plantings
Hillside OES Buses and Support	10,650	30 Buses and Teacher and Staff Support
Community /Corporate Volunteers	13,125	1250 hours of community and corporate volunteer
Toyota Canada	5,000	Provision of 4 X 4 Toyota Tundra Truck
TRCA and Rouge Park	12,500	Site preparation, approvals, surveys, etc
Exchange & Co-op Students	5,250	500 hours of watering, weeding and maintenance
Markham Forestry	5,000	Provision of wood chips and help with event preparation
In-Kind Total	77,775	

BUDGET FORM - Please see attached one page Project Budget

This project is occurring on a berm TCA has made with fill and topsoil. This type of site tends to be windy and drier than average. To ensure planting success, the following steps are important: 1) a greater proportion of container grown trees should be used because they suffer less transplant and drought shock; 2) additional mulch needs to be placed around the trees to improve moisture retention and soil health; and 3) additional watering and follow-up care are necessary. For these reasons, the cost\$/ha is higher for this site.

How did you organization hear about the MTF? (Please check one)			
Town Website <input type="checkbox"/>	Newspaper advertisement <input type="checkbox"/>	Word of mouth <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
<p>Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Parks Planner, Operations, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-477-700 ext.3226 Fax 905-940-1550. Photos may be posted on the Town's website.</p>			

❖ **Purpose for the project**

This project will involve 1530 student and community volunteers in the planting, watering and maintenance of 6,500 native trees and shrubs, 4500 native wildflowers and 65 kg of native seed to restore 3 ha of BHMP to a beautiful and diverse combination of upland forest, lowland forest and native wildflowers.

❖ **Description of the Project Team**

Evelyn Lurz, FRW's Environmental Education and Volunteer Coordinator, has a B.A. in Psychology and a decade of outdoor education and tree planting experience. FRW's General Manager, Jim Robb, has University of Toronto Forestry and Environmental Science degrees and more than 25 years of practical experience conducting planning and implementing award winning ecological restoration and education projects in the Rouge River Watershed.

❖ **What will your project accomplish? (include workplan with timelines, plant list and planting plan)** Please see attached Workplan, Planting Spreadsheet and Site Maps

Measurable Project Activities and Benefits:

Forest Regeneration:	3 ha of approved TRCA lands planted with 6,500 trees & shrubs
Meadow Restoration:	4,500 native wildflowers and 15 kg native wildflower seed
Enhanced Hydrology:	6+ million litres/year reduction in runoff
School Involvement:	1030+ student volunteers involved and educated about GLWQ
Other Involvement:	500+ community and corporate volunteers involved and educated
Education:	30+ educational Rouge Park and BHMP nature walks for schools
Biodiversity:	15 kg native tree and 35 kg tall grass prairie seed planted
Nesting Boxes:	7+ nesting boxes erected (8 bluebird, 1 Kestrel, 1 wood duck)
Habitat Structures:	20+ log piles, 5 raptor posts created
Species at Risk:	2+ endangered species planted (e.g. Butternut, dense blazing star)
Biomonitoring:	3 before and after surveys (amphibians, turtles, butterflies)
Debris Clean-up:	50+ bags of litter removed from Rouge Park and BHMP
Invasive Sp. Control:	500 m² of invasive plants (DSV, Phragmites) removed
Media Events:	2+ media releases for large community and corporate plantings
Youth Employment:	2 seasonal youth staff to help mulch, water & maintain trees
Youth Education:	2 co-op students / 2 foreign exchange student volunteers

- ❖ **Who will maintain and monitor the project after completion? (Please see additional pages)**
- ❖ **What are the measurable benefits of this Project? (Please see above)**
- ❖ **How will you promote the MTTF fund with this project? (Please see additional pages)**
- ❖ **Describe other funding sources/in kind support (Please see attachments)**
- ❖ **Maintaining benefits after project completion? (Please see additional pages)**
- ❖ **Will there be an educational sign component? (Please see additional pages)**

Please also provide a cost summary including (Please see attached Budget, Funding and In-kind Tables)

Total Project Cost	\$99,575 cash	Amount requested from the MTTF	\$30,000
Amount from other sources	\$69,575 cash	In- Kind support hours	5,000 hours

Application Form

For Office Use Only - Project No.:

Group Information			
Name	Friends of the Rouge Watershed		
Address	2259 Meadowvale Road, Scarborough, ON, M1X 1R2		
Phone	416-208-0252	Fax	416-396-3292
Email	evelyn@frw.ca and jimrobb@frw.ca	Website Address	www.frw.ca
Charitable/Non Profit Organization registration # (if applicable)	Our Group has a bank account in the name of our organization		
88878 1028 RR0001	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Briefly describe what your group does:

Friends of the Rouge Watershed (FRW) has a mandate to work with youth and community to protect, enhance and restore the health, beauty and integrity of the Rouge watershed and Park. To accomplish this, FRW forms productive conservation partnerships with schools, community groups, faith organizations, businesses, municipalities, provincial and federal agencies, community leaders, foundations and environmental groups.

FRW was established in 1991 as a volunteer organization. In 1997, we increased our operations from a few annual environmental events to more than 100 youth and community planting and environmental education days by hiring full time and seasonal staff. We are dedicated to improving watershed, ecosystem and community health, through science-based watershed stewardship and education.

Projects Contacts			
Name	Jim Robb	Name	Evelyn Lurz
Title	General Manager	Title	Project Coordinator
Phone (work)	416-208-0252	Phone (work)	416-208-0252
Phone (home)	647-891-9550	Phone (home)	647-624-5879
Email	jimrobb@frw.ca	Email	evelyn@frw.ca

Project Summary			
Title	Habitat Restoration in Bob Hunter Memorial Park, 2013		
Location of Project	Bob Hunter Memorial Park (see attached maps)		
Name of Registered Owner of the Lands	Toronto and Region Conservation Authority		
Address of Registered Owner of the Lands	5 Shoreham Drive, Toronto, ON, M3N 1S4		
Contact Name for Registered Owner of the Lands	Mike Bender (905-713-7374)		
Phone # Registered Owner of the Lands		Duration (months, maximum 12 months)	9 months
Request for	Spring Funding <input checked="" type="checkbox"/>	Fall Funding <input type="checkbox"/>	Either <input type="checkbox"/>
Start Date of Project	April 2013	End Date	January 2014

Please describe which of the following objectives your project meets and how:

- ❖ **The project provides demonstrable, widespread and lasting environmental benefits for the community;** through the involvement of 1530 volunteers in the planting of 11,000 native trees, shrubs and wildflowers and 65 kg native seed on an approved Bob Hunter Memorial Park site.
- ❖ **The project can be showcased by the Town of Markham;** through joint events involving Markham schools, youth and community groups, Markham staff, Councillors, MPs, MPPs, corporations and media.
- ❖ **The project promotes education, understanding and participation in environmental sustainability in the Town of Markham;** by involving 1530 youth and community volunteers in nature walks and ecological restoration activities which improve watershed awareness and health.
- ❖ **The project supports the Town's environmental policies and strategic plan;** by protecting and enhancing air quality, water quality and habitat, buffering climate change and taking visible steps towards sustainability.



101 Town Centre Boulevard,
Markham, Ontario, L3R 9W3

Markham Trees for Tomorrow Fund

Applicant's Guide and Application Form

What is the Markham Trees for Tomorrow Fund (MTTF)?

As part of the Markham Trees for Tomorrow Program, the Markham Trees for Tomorrow Fund (MTTF) provides financial resources for tree planting projects and outreach programs to engage the community in an effort to increase the tree cover and to improve the health of all trees that comprise Markham's 'urban forest'.

Who Can Apply?

Eligible organizations include: other levels of government, public agencies, school boards and Markham Community Groups including: Markham-based community ratepayer associations and local organizations, such as conservation groups, Scouts, etc.

Multi-jurisdictional groups, such as NGOs, or other organizations may be considered if there are clearly demonstrable benefits in the Town of Markham, conditional on such groups working with a local Markham community group.

Individuals and "for profit" organizations are not eligible. Any project that results in a direct financial private benefit to the fund recipient is not eligible.

What are the Program's Requirements?

Applications will be considered by the Environmental Issues Committee for recommendation to General Committee and Council. The following requirements must be met prior to the application review by the Environmental Issues Committee:

Community groups must first contact the Parks Planner (905-477-7000 ext.3226) to select a site from a list of recommended sites and jointly develop a detailed project plan; additional sites may be considered at the discretion of the Town.

NGO's and other eligible public agencies must ensure that:

- the project includes a detailed plan that:
 - describes the existing site conditions, any necessary site preparation prior to planting and how the site is to be safely accessed before, during and after the planting
 - involves the active participation of community volunteers
 - provides a clear planting plan, including an outline of the rationale behind species selection, planting densities other design considerations arising from the existing conditions and the broader context of the planting site
 - makes a commitment to water and maintain the trees after the planting to help with the establishment and to maximize the survival rate of all newly planted stock

and demonstrate how:

- the project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and,
- the project supports the Town's environmental policies and strategic plan

Projects will be expected to meet at least one of these objectives, if not more.

Applications that do not meet any of these criteria will not be approved.

What are the Community Funding Criteria for an Application?

- projects must be within the Town of Markham and initiated by members of the Town of Markham Community, or Town of Markham Community Groups;
- applicants can request a maximum of _____ from the MTTF per project per year; larger amounts up to a maximum of _____ will be considered for applicants planning larger scale plantings (in excess of ____ ha) or multiple plantings with school or other community groups and which include an educational component (curriculum based for schools)
- applicants may only apply once a year, for projects that will be completed within that same one-year time frame (12 months from issuance of cheque);
- only materials and equipment costs (not consulting services) are eligible for funding from the MTTF;
- the project must have measurable results;
- the project must have demonstrable, widespread and lasting environmental benefits for the Markham community;
- any groups that received funding for projects which have not been completed and

- reported on are not eligible for future funding; and
- funding will not be granted where projects have been commenced.

When are the application deadlines?

Funding will be awarded twice a year in Spring and Fall. Applications must be submitted by February 15, 2013 _____ for Spring funding.

How Do I apply?

- Step 1 Speak with the Parks Planner about your proposed application;
- Step 2 **Complete the Application Form.** Please ensure that it is legible and signed.
- Step 3 **Prepare any supporting information**, such as illustrations and maps and attach them to the application form. In the event the Registered Owner of the lands is an entity other than the Town of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies with all its applicable policies and requirements; and, that the writer has the authority to give its consent. Sufficient and complete information must be provided with the application for the Environmental Issues Committee to make a decision.
- Step 4 **Submit your application to the Parks Planner, Operations, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-477-7000 ext. 3226, Fax 905-940-1550.**

Application Checklist

Please ensure that your application is complete. Are the following included in your submission?

- A complete and signed application form, including all budget and funding details
- All supporting documentation such as a map, species list, etc.
- Consent letter from registered owner, if applicable

What will happen next?

The Environmental Issues Committee will review all applications taking into account the established objectives and criteria described above. They may choose to grant the right to the applicant to present their proposal, if requested. They will determine which projects should be funded and how they should be funded (in a single payment or in phases) and make a recommendation to General Committee and Council.

How will I be notified?

A letter of acknowledgement will be sent upon receipt of an application. If your project is approved for funding, you will be contacted. If your application is not approved, you will be informed in writing.

What happens after the Project is completed?

Upon completion of the project and no later than 12 months from delivery of the funding, you are required to submit your project report. Include a project report and photos so we can review and promote your project, together with the completed consent forms permitting use of your photographs by the Town (copy attached).

What does a Project Report Contain?

- accounting of how all funding has been spent
- original copies of paid invoices
- description of the success/any shortfalls of the project
- photographs for review and promotion of the project
- completed consent form for use of photographs

A project format will be provided to assist you in preparing the report

Markham Trees for Tomorrow 2013 Funding Application

BHMP planting with Minister Peter Kent, May 2011



Planting with Brookside PS, September 2012



**BHMP berm planting
November 2008**



**BHMP berm
October 2011**



**BHMP berm
October 2012**



BHMP, Reesor and 14th Ave, May 2011



BHMP, Reesor and 14th Ave, June 2012



Submitted to: City of Markham
Trees for Tomorrow Fund

By: Friends of the Rouge Watershed

February 14, 2013

Habitat Restoration in Bob Hunter Memorial Park, 2013

2013 FRW Markham Trees for Tomorrow Planting Spreadsheet

#	Site Location	Size (ha)	Fresh to	Moist to	white pine	white cedar	white spruce	white tamarack	red pine	aspen	white birch	maple silv. & red	E. Cottonwood	sycamore	oaks	oaks burr/swamp	hickory	other	flowering shrubs	Large Trees	Tree Totals	Flowers/ plugs/ pots	Native	Native
	Bob Hunter Memorial Park																							
4	S 14th Ave, E Havelock Rail	3.0	2.9	0.1	2,000	200	300	300	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2

Species, Moist to Wet Soils

Trees	white cedar, white spruce, tamarack, trembling aspen, white birch, silver maple, E. Cottonwood, A. Sycamore, burr & swamp white oak, shagbark hickory, basswood, elm, pussy willow, red osier dogwood, nannyberry, highbush cranberry, meadow sweet, swamp rose, ninebark, speckled alder, fragrant raspberry, elderberry, etc
Flowering Shrubs	
Native Wildflower Seed	Native sedge species (fox, bebb's etc), cord grass, Kalm's brome, big bluestem, Indian grass, Canada rye, sweet ox eye, sneeze weed, green headed coneflower, fox glove beard tongue, NE aster, blue flag iris, dense blazing star
Native Flowers (plugs /pots)	joe pye weed, blue flag iris, sweet flag iris, boneset, turtlehead, blue vervain, swamp rose, white snakeroot, blue lobelia, Cardinal flower, green headed coneflower swamp milkweed, bottled gentian, Azure and NE aster, cup plant, ironweed, monkey flower, etc, Cord grass, sedges, Indian grass, big blue stem, sweet ox eye, Michigan lily

Species, Fresh to Dry Soils

Trees	white pine, eastern juniper, bigtooth aspen, white birch, red maple, A. Sycamore, red & white oak, bitternut hickory, black cherry, hawthorne, ironwood, choke cherry, grey dogwood, hawthorn, sumac, serviceberry, American hazel, Canada plum, red bud, New Jersey tea, etc
Flowering Shrubs	Canada rye, big bluestem, Indian grass, twitch grass, sand drop seed,
Native Wildflower Seed	brown eyed susan, milkweed, hairy beard tongue, bergamot, smooth rose, native yarrow, evening primrose, showy tick trefoil
Native Flowers (plugs & pots)	brown eyed Susan, milkweed, hairy beard tongue, bergamot, smooth rose, native yarrow, evening primrose, showy tick trefoil, lance leaved coreopsis, hoary vervain, butterfly weed, wild strawberry, NE aster, flat topped aster, cylindric blazing star, prairie smoke, virgin's bower, Virginia Mtn Mint, fireweed, harebell, Pearly everlasting, wild geranium, etc

**Markham Trees For Tomorrow
2013 FRW Workplan and Communications Plan**

Project Activities	Timeframe
Prepare and submit 2012 reports to partners and submit year end reports Plan and prepare for plantings, complete detailed work plans and planting schedules Complete budgeting and fundraising for upcoming year Work with TRCA and RP to ensure that site preparation is completed on time Obtain site access permits and seed 65 kg native grasses, flowers and trees Get wood chips, brush and logs on-site (distribute while soil is frozen) Create 32 new habitat structures (log piles, raptor posts, nesting boxes, etc) Confirm 2013 tree orders and timing, get 2013 planting supplies, maintain vehicles and equipment Organize spring staffing and volunteer planting schedule	Jan. to March
Complete before photos of restoration sites Restore 3.0 ha priority Rouge Park and Bob Hunter Memorial Park Site Plant 5,000 trees and 3,500 wildflowers according to planting Spreadsheet Involve more than 20 classes, 1,030 student, community and corporate volunteers Provide 30 environmental walks involving 1,000 youth and community volunteers Coordinate 2 summer workers & 4 exchange students to mulch, water & maintain planting sites	April to June
Plan for fall plantings, confirm trees and supplies Place wood chip mulch, rodent guards and weed blankets around high value hardwood trees Plant and water 1,000 native wild flowers around new restoration sites Confirm 2014 sites with TRCA, submit applications and encourage site preparation Organize public butterfly, frog and great lakes /clean watershed walks Take after photos of 2013 and previous years restoration sites and prepare powerpoint reports Submit bi-annual reports	July to Sept.
Complete restoration activities on BHMP Site Plant 1,500 container grown trees and shrubs on BHMP site Place wood chip mulch, rodent guards and weed blankets around high value hardwood trees Collect, clean and store native tree and wildflower seed Involve more than 500 students and community volunteers in fall plantings Provide nature walks involving 500 youth and community volunteers Gain TRCA and Rouge Park approvals and funding and preparation of following year planting sites	Oct. to Dec.

Communication Plan	Timeframe
Condense project messages and create draft media releases Organize public events with MPs & invite media to highlight projects & funders Hold two public events with media releases and project coverage Update FRW website, social media sites, newsletters and flyers to acknowledge GLSF and partners Use FRW school, community and MP mailings to acknowledge GLSF and other partners	April to June
Prepare and submit project articles for MP and Councillor constituency newsletters Arrange partner site visits / tours/ thank you	July to Sept.
Use FRW email list to announce annual project accomplishments and invite participation Forward project photos and articles to partners, MPs, etc	Oct. to Dec.
Prepare and submit project articles for MP and Councillor constituency newsletters Forward project summaries, photos and documentation to partners, MPs, etc Submit year end reports and complete annual audit	Jan. to March

FRW BHMP Funding Partners, 2013	
	Cash
Approved (\$)	
TRCA/Rouge Park	15,000
Trillium	8,000
EcoAction	8,100
RBC Bluewater	6,000
Pending (\$)	
Markham TFT	30,000
RONA Suzuki	5,000
GLSF	6,000
HRSDC	4,000
Deloitte	5,000
Evergreen Cannon	3,000
Other Corporations	6,255
Other Foundations	3,220
Total	99,575

Partner Quotes *(letters available upon request)*

"I have worked on many projects with FRW and I am impressed with their vision, expertise, dedication and record of accomplishments. I am honoured to be a Patron of Friends of the Rouge Watershed and provide this letter of support for FRW's excellent environmental projects."

- Hon. Pauline Browes, former Minister of State for the Environment,
Member Canada round table on environment and Economy

"Friends of the Rouge Watershed has developed very successful ecological restoration methods which utilize good site preparation, native trees, shrubs and wildflowers, and locally collected seed, to help restore a rich and biodiverse mixture of forest, riparian, and wetland and meadow habitats. FRW projects involve thousands of youth and community volunteers in environmental education and action."

- Alan Wells, Chair, Rouge Park

"FRW has an excellent record of harnessing government, school, community and corporate support to achieve remarkable ecological restoration results."

- Frank Scarpitti, Mayor, Town of Markham

"I am pleased that FRW is partnering with Town of Markham schools to involve students in tree plantings in Markham and to educate and inspire students to protect and improve the health and beauty of Markham and the Rouge River ecosystem."

- Jack Heath, Deputy Mayor, Town of Markham

"The benefits of FRW projects are multiplied through the involvement of thousands of student and community volunteers, partners from other levels of government and the private sector."

- Hon. John McKay, M.P., Scarborough-Guildwood

"FRW's projects have received "Awards of Excellence" from the Rouge Park, Wildlife Habitat Canada, the City of Toronto, Environment Canada and the Toronto and Region Remedial Action Plan. FRW utilizes its planting projects to foster school and community awareness and action on habitat protection, pollution prevention, climate change, energy efficiency and waste reduction."

- Raymond Cho, Councillor, City of Toronto

"I am convinced that FRW restoration efforts are significantly expanding and enhancing habitat opportunities for many local butterflies, moths and insects, including regionally rare species (e.g. Little Glassy Wing, Green Comma and Appalachian Browns) and the federally vulnerable Monarch."

- Tom Mason, Curator of Invertebrates, Toronto Zoo

"The Red Leaf Volunteer Program and all its international participants are proud of the conservation initiatives and hands on restoration work that they have contributed to in the Rouge Park with the assistance of FRW. The Red Leaf Volunteer Program is looking forward to a continuing, very successful volunteer partnership with Friends of the Rouge Watershed for many more years to come."

- Marylou Hennan, President, Red Leaf International Students Program

"Friends of the Rouge plays a vital role in both the ecological and human communities of the Rouge Watershed. Their activities are remarkably effective in protecting and restoring the ecological health of the Rouge River watershed. Of equal importance, they are deeply engaged with the community as educators and as mentors for positive environmental action and as a consequence have been able to make a great contribution to increasing community capacity."

- David Gordon, Teacher, Dunbarton High School

"The City generates large amounts of logs and wood chips while maintaining the urban forest. We are happy that some of this organic material can be efficiently recycled into community reforestation and green space projects. Based on our nominal staff and equipment cost of \$100/truck load and our other types of assistance, I estimate that our annual in-kind support for FRW projects has been app. \$20,000/year."

- Michael McClellan, Supervisor, Urban Forestry, City of T.O.

"Each year, the Sri Lankan Tamil community works along with other communities in Toronto with FRW to organize a large multi-cultural tree planting in the Rouge Park."

- S.C. Palanisamy

"...Toyota Canada Inc. has contributed almost \$100,000 towards the planting of more than 100,000 native trees and wildflowers to help protect and expand designated environmentally sensitive areas within Rouge Park... Toyota Canada has also provided FRW with the free use of a Toyota 4x4 truck to help transport trees, supplies and staff for habitat restoration work. There is a possibility that we may be able to donate a full-sized Tundra 4x4 truck for use in the future."

- Vince Moffat, Administration Manager, Toyota Canada

February 11, 2013

Mr. Jim Robb
Friends of the Rouge Watershed
2259 Meadowvale Road,
Scarborough, ON M1X 1R2

Dear Mr. Robb:

Re: "Habitat Restoration on Rouge Park Priority Sites 2013" Project

Thank you for your application to the 2013 Rouge Park Natural Heritage Grant Program. The Board of the Toronto and Region Conservation Authority (TRCA) reviewed proposals and determined funding allocations under this program at their November 30th, 2012 meeting. Thirteen proposals were submitted for consideration for the 2013 funding year, with requests totalling \$282,070.65. Nine of these projects were approved, with a total funding allocation of \$168,645.11.

I am pleased to inform you that the TRCA has allocated a maximum of **\$67,145.40 exclusive of HST** to support your **Habitat Restoration on Rouge Park Priority Sites 2013** project (resolution enclosed), subject to the conditions outlined in this letter.

Enclosed you will find a copy of the Rouge Park Funding Policies and Reporting Requirements. Please take the time to read this carefully. You will also find a copy of the deliverables that were abstracted from your proposal and any special conditions that were approved by the TRCA. **Within the next few weeks, staff will be in contact with you to finalize a funding agreement for your project.** If you have any questions or wish to discuss your project further, please contact Maria Papoulias (905-713-6308, mariap@rougepark.com) at the Rouge Park office.

We heartily encourage and support you in your work in the Rouge River watershed. Best wishes and please keep us informed as you work to successfully implement your projects.

Sincerely,



Mike Zender
General Manager, Rouge Park



October 22, 2012

Dear Potential FRW Partners:

Re: Hillside OES Contribution to Friends of the Rouge Watershed Projects

Hillside Outdoor Education School (OES) is pleased to provide this letter of support for Friends of the Rouge Watershed (FRW). Each year, Hillside OES provides outdoor education day centre programs for more than 8,000 Toronto District School Board students. FRW operates from Hillside and contributes to the Ontario-wide EcoSchools program. We work together through facility operations and curriculum based programs to enhance the EcoSchools program on topics of energy conservation, waste minimization and school ground greening.

Since 1999, the staff and students of Hillside OES have enjoyed our ongoing conservation partnership with FRW. This partnership provides students, teachers and parents with many opportunities to plant native trees and wildflowers, collect and plant native seeds and learn about the ecology of the nationally significant Rouge Park.

When students plant a native tree or flower in Rouge Park and enjoy an educational nature walk, they are building a connection with nature which will be essential to the long term health and beauty of the Rouge Park and watershed. Students involved in programs with Hillside and FRW leave with a better understanding of the Rouge Park, watershed protection, and conservation of land, species, energy and resources. They take this knowledge and understanding back to their schools, homes and communities.

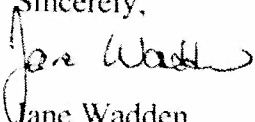
Hillside OES provides many types of in-kind support for FRW projects, including:

- buses to transport students to planting sites and nature walks;
- 2-4 Hillside staff members who assist FRW staff in plantings;
- use of Hillside facilities, including washrooms, lunchrooms and play grounds;
- provision of supplies such as garden gloves, boots, rain coats, water, etc.
- liaison with visiting teachers, students and parents;
- coordination of the program calendar with other TDSB schools.

The estimated value of Hillside's in-kind contribution is \$37,200/year in terms of busing of students, use of the Hillside facility and other support. The in-kind involvement of thousands of TDSB students has an additional estimated value of \$42,000/year.

As Rouge Park becomes a national park, we trust that Parks Canada, TRCA and other partners will continue to support the important educational and ecological work of FRW and Hillside Outdoor Education School. We look forward to ongoing conservation and education partnerships with FRW and other Rouge Park partners.

Sincerely,



Jane Wadden,

Site Supervisor

Hillside Outdoor Education School

2259 Meadowvale Rd.

Scarborough, ON M1X 1R2

February, 2009

Dear Potential Partners of Friends of the Rouge Watershed:

I am pleased to provide this letter of support for Friends of the Rouge Watershed (FRW).

In my inaugural speech in December 2006, I stated:

"During the next four years, we will plant more trees than we have planted in the last decade, making Markham a greener and better place to live and work."

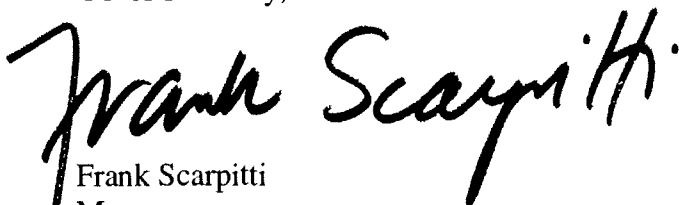
Markham values our planting partnerships with FRW. In 2008, Markham partnered with FRW to involve more than 1500 school, community and corporate volunteers in the planting of 19,000 native trees, shrubs and wildflowers, and the creation of ten frog and turtle ponds. Working together, we restored forest, meadow and wetland habitat on approximately 110,000 square metres (11 ha) of public land in Bob Hunter Memorial Park, near Box Grove, in southeast Markham.

Milne Park provides a good example of the tremendous long-term success of past planting partnerships (1994 and 1995) between Markham and FRW. The small pine, cedar, birch, maple and oak saplings planted by volunteers in 1994 and 1995 are now fifteen to thirty foot tall juvenile trees (5 to 10 metres). The planted trees have grown into a young forest which purifies our air and water, absorbs greenhouse gases, reduces flooding and erosion, beautifies public parkland, and provides habitat for birds.

FRW has an excellent record of harnessing government, school, community and corporate support to achieve remarkable ecological restoration results.

To protect and improve watershed and community health, I strongly encourage potential partners to support the successful community-based ecological restoration work of FRW.

Yours sincerely,


Frank Scarpitti
Mayor

November 18, 2008

Dear Potential Partners of Friends of the Rouge Watershed:

I am pleased to provide this letter of support for Friends of the Rouge Watershed.

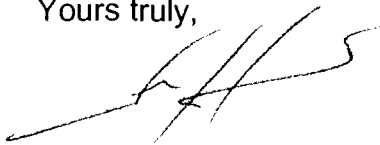
The Town of Markham is committed to environmental leadership and sustainability. In his December, 2006 inaugural speech, Mayor Scarpitti stated: "During the next four years, we will plant more trees than we have planted in the last decade, making Markham a greener and better place to live and work."

Over the last twelve years, FRW has tirelessly involved more than 35,000 students, community and corporate volunteers in the planting of more than 330,000 trees, shrubs and wildflowers to restore Rouge Park sites in Scarborough, Markham and Richmond Hill. These community plantings help Mother Nature to restore a beautiful mixture of forests, wetlands, and wildflower meadows on 1.4 km² of public greenbelt lands which link Lake Ontario with the Oak Ridges Moraine.

I am pleased that FRW is partnering with Town of Markham schools to involve students in tree plantings in Markham and to educate and inspire students to protect and improve the health and beauty of Markham and the Rouge River ecosystem.

I strongly encourage potential partners to support the successful youth and community based environmental education and ecological restoration work of Friends of Rouge Watershed

Yours truly,



Jack Heath
Deputy Mayor

December 2, 2008

Dear Potential Partners of Friends of the Rouge Watershed:

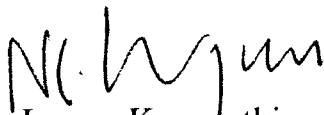
It gives me great pleasure to provide a letter of support for Friends of the Rouge Watershed.

The community are aware of your tireless efforts involving your commitment to encourage students and volunteers in planting thousands of trees to restore the beauty in Rouge Park sites in Scarborough, Markham and Richmond Hill.

I am pleased that FRW is partnering with the Town of Markham schools to involve students in this mission and educating them the importance of our ecosystem.

Markham is committed to continue its efforts as a leader in environmental and sustainability issues and we strongly encourage partners like your organization to make a difference.

Yours truly,


Logan Kanapathi
Councillor Ward 7



Environment
Canada

Environnement
Canada

1905 Dufferin Street
Toronto, ON
M3H 5T4

July 27, 2011

Mr. Jim Robb
Friends of the Rouge Valley Watershed Inc.
2259 Meadowvale Road
Scarborough, Ontario
M1X 1R2

Subject: EA-ON-2010K067 - RESTORING PRIORITY ROUGE PARK SITES

Dear Mr. Jim Robb:

I am pleased to extend my congratulations on your successful application to the EcoAction Community Funding Program.

Environment Canada is considering a contribution of \$87,000.00, for a total project value of \$1,609,740.00, payable over 36 months.

Your EcoAction project will be funded through a Contribution Agreement under which the Government of Canada sets certain conditions that must be met. The enclosed Recipient's Handbook provides answers to many of your questions. Additional guidance and support is also available from your Project Officer, Diana Bonaldi, who will be contacting you shortly regarding the negotiation of the Contribution Agreement. Diana Bonaldi will provide you with the information and advice you need, and will monitor your project on an ongoing basis on behalf of Environment Canada.

In order to ensure the successful negotiation of your Contribution Agreement you will need to do the following:

1. update project's workplan and communication activities;
2. update the project cashflow for your project;
3. submit any remaining support letters for your project's cash and in-kind contributors (these letters must confirm the funding amount(s));
4. confirm the EcoAction performance indicators you will be using to measure the success of your project;
5. submit, for approval, any proposed changes in your project activities, scope, funding sources, etc., since the submission of your original application; and
6. respond to any additional information requirements (i.e. copies of any necessary permits for project work) and funding conditions identified by your Project Officer.

You can reach Diana Bonaldi directly at 1-416-739-4159, toll-free at 1-800-661-7785, or by email at diana.bonaldi@ec.gc.ca. My staff and I look forward to working with your organization and thank you for your commitment to protecting and improving the environment in your community.

Sincerely,

Kim Colavecchia
Regional EcoAction Manager

Enclosure:

- Recipient's Handbook
- Example of a Contribution Agreement (to follow)

Canada