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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 8, 2013</b>
<b>FROM:</b>	<b>JAY STANFORD, M.A., M.P.A. DIRECTOR, ENVIRONMENT, FLEET &amp; SOLID WASTE</b>
<b>SUBJECT</b>	<b>ENVIRONMENTAL PROGRAMS UPDATES</b>

<b>RECOMMENDATION</b>
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That on the recommendation of the Director – Environment, Fleet & Solid Waste, the following report **BE RECEIVED** for information.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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Some relevant reports that can be found at [www.london.ca](http://www.london.ca) under City Hall (Meetings) include:

- Update on Rethink Energy London – Celebrating Progress - Sustainable Energy London (February 25, 2013 meeting of the Civic Works Committee, Item #4)
- Environmental Programs Update (May 14, 2012 meeting of the Civic Works Committee, Item #19)

<b>BACKGROUND</b>
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**PURPOSE AND CONTEXT**

The purpose of this information report is to provide Committee and Council with a brief update on 10 key projects and activities within the Environmental Program Services area that:

- addresses Committee and Council recommendations for additional updates
- highlights a number of the key programs and projects currently under way or in the planning stages
- provides key available data and observations
- indicates how the program or project contributes to Council’s Strategic Plan 2011-2014
- indicates how the program or project is addressing cost impacts and/or value to customers
- indicates how the program or project addresses the City of London Community Engagement Policy, and
- provides an updated timeline for completion and additional report back to Civic Works Committee (CWC)

**DISCUSSION**

Environmental Programs’ key focus is on being a central area for environmental leadership, coordination with others and being easily accessible by the citizens and businesses of London. City staff in this area apply practical municipal and private sector experience with a focus on air quality, climate change, climate adaptation, energy conservation, active transportation, transportation demand management, urban watershed management, natural landscaping, community capacity building and community outreach. Specific actions are in the following key areas:

**Community Environmental Action**

- Implement community and business outreach and action; partnerships and capacity building
- Administer and evaluate existing environmental programs and initiatives

**Environmental Programs Coordination and Management**

- Respond to environmental inquiries and manage issues
- Undertake research and policy development
- Coordinate with other City of London divisions, Agencies, Boards & Commissions on environmental and sustainability matters

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**Corporate Environmental Actions**

- Design, implement, monitor and evaluate actions
- Undertake cost/benefit analyses and return on environmental investment

**Benchmarking and Public Reporting**

- Undertake comparative evaluations, analyses and public reporting on many environmental programs.

**Key Project/Program Updates**

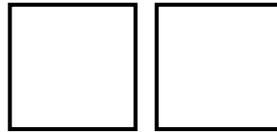
Appendix A contains updates on ten projects and activities, including 2012 accomplishments and 2013 initiatives:

1. EcoMobility – Moving Transportation Demand Management Forward
2. London Cycles
3. Active & Safe Routes to School (ASRTS)
4. Rethink Energy London – Community Engagement
5. Rethink Energy London – Community Energy Action Plan
6. Corporate Energy Management
7. Subwatershed Planning – The Coves Example
8. Regional Watershed Projects
9. London Clean & Green
10. Enhancing Environmental Outreach and Strengthening Community Capacity

**ACKNOWLEDGEMENTS**

This report was prepared with assistance from Allison Miller, Transportation Demand Management Coordinator, Greg Sandle, Environmental Programs and Daryl Diegel, Corporate Energy Management Coordinator.

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## APPENDIX A

### Project/Program Updates

<b>1. EcoMobility – Moving Transportation Demand Management (TDM) Forward</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (Reduce carbon footprint through wise actions that benefit our local, regional and global environment) A Caring Community (Increase the health and well-being of all citizens)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Walking, cycling, and carpooling provide increased physical activity opportunities and cost savings for households, particularly with recent fuel price increases.</li> <li>• Testing the use of new pedestrian and cyclist counting tools will help determine whether Londoners are making environmentally friendly transportation choices, including transit modes, and where additional resources and infrastructure are needed.</li> <li>• This project has built new relationships with community and business partners.</li> <li>• Key “transportation system user” input obtained for the development of Smart Moves 2030 Transportation Master Plan.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve) Methods - Direct delivery of materials, Briefings, Newsletters, Scientific surveys, Community-led events
Project/Program partners	Summerside Optimist Club, Western University - Urban Development Program, several local businesses, Ministry of Transportation (Ontario), Transport Canada (Federal)
Current timeline	All activities were completed in 2011 on schedule. Additional activities are now underway
Revised timeline	Project complete
Next CWC report	Not required unless further details requested

**Background**

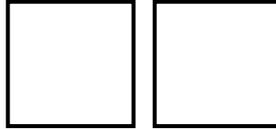
London's EcoMobility Project ran between 2009 and 2011. It had two initiatives. The first was *TravelWise Summerside*, which engaged residents in the Summerside area. The goal was to introduce or reinforce travel options both for short internal trips and longer trips outside of the neighbourhood. Lessons learned allowed the City and its partners to better understand individuals' travel to and from their home and work areas, and engaged individuals in making more environmentally-appropriate transportation decisions when traveling in London.

In 2012, activities continued with participation at Summerside events to interact with residents and provide them ongoing information on their transportation options. The City also continued the relationship with the Summerside Optimist Club, by providing transportation choices content for their spring and fall newsletters. As well, interactive tools were provided to the local homebuilders to share with prospective buyers to show them what they could easily get to in and near Summerside.

The *Workforce Mobility Project* was the second initiative. It built on the City's Business Travel Wise Program, which engages London businesses in developing workplace-specific transportation options and promoting these options to their employees. Eight workplaces were part of the project. Employee surveys and focus groups were conducted that produced information on how employees commute to work and what additional supports they need to shift more trips to green options. The project also resulted in bike racks being installed, carpool ridematch services started, and carpool parking spots assigned. Since the project ended in 2011, results have been absorbed into the Business Travel Wise Program. Currently, 15 businesses (representing approx. 14,000 employees) are active participants.

**Key Results**

See the Environmental Programs Update report from May 14, 2012 for details.



Next Steps - 2013

Lessons learned in Summerside are being expanded into other neighbourhoods, including Argyle which is a focus area for community development initiatives through the City’s Community & Fire Services area.

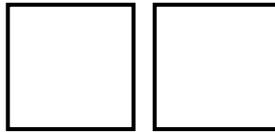
Lessons learned have also been shared with other municipalities across Canada.

The goal for continued activities is to match the level of resources available in each new neighbourhood to a mix of promotion and incentives. As well, residents will gain a better understanding of the transportation options available to them and how they benefit.

Business Travel Wise Program activities are ongoing and currently focused on strengthening the partnership between the City, Western University and Fanshawe College for purposes of sharing lessons learned and developing stronger transportation option programs.

And lastly, the research and installation of automatic pedestrian and bicycle counting equipment in Summerside has resulted in an expansion of the technology into other areas of the city. Specifically, automatic counts are now being conducted along the Thames Valley Parkway and some bike lanes. This data collection will provide a much clearer picture of how Londoners are using these facilities than has been available in the past.

<b>2. London Cycles</b>	
Relationship to Council’s Strategic Plan 2011-2014	A Green and Growing City (Reduce carbon footprint through wise actions that benefit our local, regional and global environment) Sustainable Infrastructure (i. Increase the efficiency, capacity and connectivity of roads and transportation systems, and ii. Achieve effectiveness, economy and efficiency in operations)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Cycling is a low-cost, time-competitive option for short (1-5 km) trips.</li> <li>• Increased use of cycling as a travel mode improves the health of Londoners and the local environment.</li> <li>• Having highly-visible and well-maintained cycling infrastructure will help attract new businesses to London, particularly those that value quality of life for their employees.</li> <li>• Accommodating increasing numbers of cyclists has significantly lower infrastructure costs than that required for an increasing number of motor vehicles.</li> <li>• Londoners have expressed a willingness and desire to ride more, but they face perceived and real safety barriers and poor destination facilities such as a lack of bicycle parking.</li> <li>• Key input generated for the development of SmartMoves 2030 Transportation Master Plan</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate Methods – Symposia, Resident Feedback Registers, Workshops. Some partners using specialized processes such as Charettes, World Cafes, Open space meetings
Project/Program partners	Thames Region Ecological Association (TREA), Our Street, Cycle London Group, Urban League of London, Middlesex-London Health Unit (MLHU), London Police Service, Celebrate London, Tourism London, Share the Road, (plus others are being added)
Current Timeline	A series of activities are planned for 2013.
Revised timeline	Not required
Next CWC report	Not required unless further details requested



Background/Key Results

London already has a good cycling network with many comparable cycling features to other communities. This includes the Thames Valley Parkway (TVP) and reasonable access to downtown from the TVP, a growing network of on-road bike lanes, “sharrow” routes, and signed routes. The network continues to grow as the following table illustrates:

Total paths and lanes	Cumulative Length of Cycling Infrastructure (km)				
	2000	2007	2010	2011	2012
	n/a	172	258	271	288

London also has a growing cycling culture and advocacy groups. There has been a recent increase in the number of community groups with an interest in cycling. TREA, Our Street, and the Cycle London Group are bringing together both Londoners who have previously been active in bicycle culture and Londoners who are new to cycling promotion. Their goal is to share experiences and to advocate with a unified voice for more Londoners to ride.

As well, several cycling celebrations and educational events, including neighbourhood closed-street days and bike rodeos, are now regular occurrences.

Next Steps - 2013

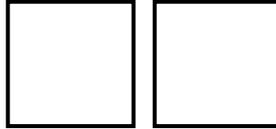
In 2013, more special events and promotion are being developed to highlight what is already in place and to encourage more Londoners and tourists to get out on two wheels and explore the city. Both recreational and transportation trips will be targeted for the personal health, financial and environmental benefits. Some of the activities underway include:

- More bike racks in locations suggested by cyclists
- Upgraded maps and way-finding signage along the Thames Valley Parkway
- Expanded measurement program/counts of cyclists
- Projects with the Middlesex-London Health Unit to promote more Londoners walking and cycling for physical activity
- Assist with community action and engagement projects and initiatives, including the Active & Safe Routes to School Program

As well, more additions to the cycling infrastructure will be made or started through Parks Planning and Transportation Planning projects, including:

- Beginning to address the Richmond to Adelaide gap in the Thames Valley Parkway (TVP) through a series of phases (Phase 1 sections will be built in 2013).
- Rebuilding the TVP between Ridout Street and Ivey Park to address poor surface conditions.
- Beginning the Environmental Assessment process to finalize designs for the Pottersburg pathway connection through the CN Rail Line. The construction timeframe will also be determined.
- Beginning the Environmental Assessment design process for a potential Richmond Street overpass at the north end of the city. The construction timeframe will also be determined.
- Rebuilding the Meadowlily pedestrian bridge.

<b>3. Active &amp; Safe Routes to School (ASRTS) - School Travel Planning Pilot Project</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (Reduce <i>carbon footprint</i> through wise actions that benefit our local, regional and global environment) A Caring Community (Increase the health and well-being of all citizens)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Encouraging students to walk or cycle to school helps address concerns about rising rates of childhood obesity and early-onset Type 2 Diabetes.</li> <li>• Student walking/cycling programs can help alleviate some school bus program costs.</li> <li>• Encouraging fewer parents to drive their children to school alleviates dangerous traffic congestion near schools, particularly in school drop-off &amp; pick-up areas.</li> </ul>



<b>3. Active &amp; Safe Routes to School (ASRTS) - School Travel Planning Pilot Project</b>	
	<ul style="list-style-type: none"> <li>• This will strengthen local partnerships (including Health Unit, school boards, and Police).</li> <li>• Reduction of localized air pollution concerns, particularly in school drop-off &amp; pick-up areas.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate Methods – Briefings, Presentations, Workshops, Events, Field trips,
Project/Program partners	Middlesex-London Health Unit (MLHU), Thames Region Ecological Association (TREA), London Police Service, Thames Valley District School Board, London District Catholic School Board, Thames Valley District School Board Parent Involvement Committee, London District Catholic School Board Parent Involvement Committee, London Block Parent Program, Western University - Urban Development Program, London Community Foundation, municipalities of St-Thomas and Woodstock.
Current timeline	All activities are on schedule
Revised timeline	Not required
Next CWC report	Not required unless further details requested

Background

The City has been a partner on the Active & Safe Routes to School Committee for over ten years. Currently the program leadership is headed by TREA and the MLHU. The goals of the program include:

- Reducing traffic congestion and improving air quality
- Creating safer streets for everyone
- Increasing the number of children walking and cycling
- Promoting a healthier lifestyle

Key Results

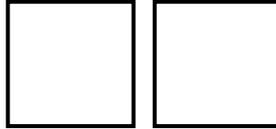
In 2012, the committee’s focus continued to be on the School Travel Planning Pilot Project. It is meant to bring the right partners to the table to address safety, traffic, and lack of physical activity issues one school at a time. Eight schools have been part of the pilot project.

Three walkabouts were completed with City staff in attendance. The walkabout brings together various representatives from the school and community stakeholders to walk around the school area and identify safety concerns. Results help each school develop their own plan to address these concerns.

Next Steps - 2013

As part of local activities, the current focus is on promoting bicycle training and starting Walking School Bus programs at ten schools. The schools that participated in the pilot project will continue to be supported and their traffic safety concerns addressed as appropriate. The goal is to add several more schools over the next 3 years. In addition, to ensure the sustainability of the program, a work plan, committee member roles and responsibilities and a funding strategy are being developed.

<b>4. Rethink Energy London – Community Engagement</b>	
Relationship to Council’s Strategic Plan 2011-2014	A Green and Growing City (Promote a “green culture” and the fundamentals of sustainability) Sustainable Infrastructure (i. Ensure affordability for users and ii. Achieve effectiveness, economy and efficiency in operations) A Caring Community (Increase the health and well-being of all citizens)



<b>4. Rethink Energy London – Community Engagement</b>	
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Reducing London’s carbon footprint, through energy efficiency and conservation as well as cost-effective clean &amp; green energy production, can provide Londoners with financial benefits along with reduced emissions</li> <li>• Sustainable energy strategies can help London homeowners and businesses cope with the anticipated rising cost of energy, particularly petroleum products and electricity</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate, Empower Methods - Direct delivery of materials, Mass media (print, radio) Briefings, City-led events, Webpage, Internet-based interactive tools, Internet-based surveys, Internet-based discussion forum, Social media interaction (Facebook and Twitter), Workshops, Community-led events, NGO-led seminars/workshops
Project/Program partners	Although there are no formal partners, contributions and ideas have been received from or coordinated with organizations such as the London Home Builders Association, Thames Region Ecological Association, Post-Carbon London, London Hydro, Union Gas, and the Mayor’s Sustainable Energy Council
Current timeline	Completed - Community Engagement Completed - Celebrating Success Underway - Obtaining Commitment for More Actions
Revised timeline	Spring 2013 - Obtaining Commitment for More Actions Fall/Winter 2013 – Community Energy Action Plan
Next CWC report	May 2013

**Background**

Rethink Energy London (Phase 1) was a community engagement initiative that focused on actions that can be taken to conserve energy and use more renewable forms of energy that started in January 2010. The purpose was to increase public awareness, encourage stakeholder action, and seek input on sustainable energy actions and greenhouse gas (GHG) emission reductions for the community that also create local social and economic benefits. Phase 1 concluded in the fall of 2012.

During Phase 1, City staff met with stakeholders at their meetings and events, and by hosting workshops, seminars and conferences. Rethink Energy London was promoted at numerous public and community events, such as the London Home Builder’s Association Home Show and Car Free Day. To reach larger audiences, City staff used local media, including regular appearances on Rogers Daytime’s Green Segment. City staff tested web-based tools for engaging the public, such as the use of a web survey, a web discussion forum, social media (Facebook & Twitter), and online carbon footprint calculators provided by Zerofootprint.

**Key Results**

City staff have made presentations about Rethink Energy London to 15 stakeholder meetings (between 10 -200 people each) and has had Rethink Energy London materials on display at more than 20 public events (between 30 – 10,000 people each).

However, within all this outreach activity, the challenge remained to document feedback from citizens and stakeholders and to reach a broader audience in London. In order to overcome this challenge, two new projects were introduced to assist Rethink Energy London: an Integrated Energy Mapping Project, and London’s Roundtable on the Environment and the Economy (both projects were completed in 2012).

In February 2013, the City of London and the Mayor’s Sustainable Energy Council released Celebrating Progress – Sustainable Energy London, a magazine that recognizes the fact that London is not starting from a blank slate when it comes to action on sustainable energy. London’s energy stakeholders have been engaged for years on energy conservation, energy efficiency, and renewable energy projects. The publication and video can be found at [www.london.ca/rethinkenergy](http://www.london.ca/rethinkenergy) and [www.london.ca/energysaver](http://www.london.ca/energysaver).

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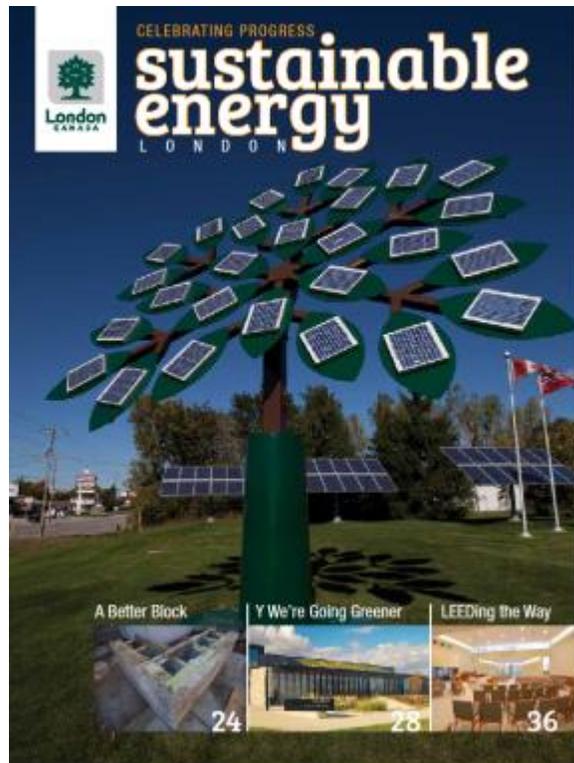
The work undertaken and input provided to date has not only helped to shape the direction for an overall Community Energy Action Plan but it has also provided key input into these major projects:

- City of London Strategic Plan 2011 - 2014
- Smart Moves, London's 2030 Transportation Master Plan
- Rethink London, and
- Corporate energy management plan (as required under the Green Energy Act)

Next Step - Obtaining Commitment for More Actions - 2013

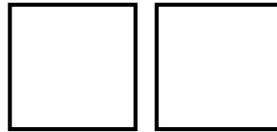
The next step of Rethink Energy London will be the release three separate documents and a final community and business engagement process. The three documents will be:

- Understanding the Data – a background document summarize the energy and greenhouse gas emission data and other information available to London,
- Learning from People – a background document summarizes what City staff learned from the public and stakeholders from the various engagement activities, and
- Draft Community Energy Action Plan – a “half-completed” plan to be used as an engagement tool for seeking input and commitments from community stakeholders.



The engagement component is anticipated to launch in May or June 2013.

<b>5. Rethink Energy London - Community Energy Action Plan</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (i. Promote a “green culture” and the fundamentals of sustainability, ii. Promote a “green culture” and the fundamentals of sustainability, iii. Reduce carbon footprint through wise actions that benefit our local, regional and global environment, iv. Establish London as a leader in green technologies)  Sustainable Infrastructure (i. Ensure affordability for users and ii. Achieve effectiveness, economy and efficiency in operations)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Reducing London’s carbon footprint, through energy efficiency and conservation as well as cost-effective clean &amp; green energy production, can provide Londoners with financial benefits along with reduced emissions.</li> <li>• Sustainable energy strategies can help Londoners and London businesses cope with the anticipated rising cost of energy, particularly petroleum products and electricity.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate, Empower Methods - Direct delivery of materials, Mass media (print, radio) Briefings, Webpage, Internet-based interactive tools, Focused Conversations
Project/Program partners	London’s major institutions (London Health Sciences Centre, Western, Fanshawe), Mayor’s Sustainable Energy Council, key community stakeholders as identified in the plan
Current timeline	Engage key stakeholders starting May 2013 Prepare & deliver Community Energy Action Plan by Fall/Winter 2013
Revised timeline	No change
Next CWC report	Fall/Winter 2013



Background

Using the information and feedback obtained with Rethink Energy London, the Integrated Energy Mapping project, and London’s Roundtable on the Environment and the Economy, the draft community energy action plan will be used to engage key community stakeholder in London. The intention is to obtain support for the City of London’s community energy action plan, and to obtain information on stakeholder actions to include within the community energy action plan. Preparation of this framework was started in early 2012 with the review of the energy mapping tools and models and the updating of London energy and GHG inventory with 2011 and 2012 data.

Key Results

The most recent community-wide energy use and GHG inventory information indicates that London has been making progress in energy conservation and emissions reductions. The most recent estimates, using 2012 data, suggest that London’s energy use per person is now 11 percent lower than it was in 1990, with most of the reductions coming from energy used at home and, more recently, on the road. London’s total greenhouse gas emissions are now almost 11 percent lower than 1990 levels, and GHG emissions per person are over 25 percent lower than 1990 levels. The energy model from the Integrated Energy Mapping project has identified a number of energy strategies that should provide a positive return of investment for London as a whole. Strategies that support the construction of high-efficiency new buildings in the industrial, commercial, and institutional (IC&I) sector, as well as the retrofitting of existing IC&I buildings with energy-saving features, will provide positive financial returns and lower emissions. Additional information will be contained in the upcoming Understanding the Data background document.

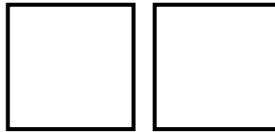
Next Steps - 2013

The Draft Community Energy Action Plan will likely contain the following main areas:

- The defining principles of our Community Energy Action Plan
- Who the key community energy stakeholders are,
- The economic, environmental and social benefits of an Action Plan, and
- Action Areas including roles, responsibilities and target ranges.
  - Policy Support for Community Energy Planning
  - Measurement and Reporting of Energy Use and Greenhouse Gas Emissions
  - Single-Family Homes
  - Multi-Unit Residential Buildings
  - Commercial and Institutional Buildings
  - Industry and Manufacturing Buildings
  - Stores and Restaurants
  - Transportation
  - District Energy and Co-generation of Heat and Power
  - Community Energy Projects

The draft Community Energy Action Plan will have sections of the draft Action Plan left blank deliberately, which the City will ask London’s business community, London’s major institutions, and the community to assist in “filling in the blanks” with the actions that would be willing to undertake. The goal of this exercise is to obtain realistic and achievable commitments from members of the community towards sustainable energy. As has been mentioned for many years, London Municipal Council only has direct control over changing how energy is consumed by the Corporation of the City of London in delivering services to Londoners. However, with respect to businesses and the citizens of London, it is through leadership and collaboration that Municipal Council can influence and encourage significant gains in energy conservation, energy efficiency and use of renewable energy.

<b>6. Corporate Energy Management</b>	
Relationship to Council’s Strategic Plan 2011-2014	A Green and Growing City (i. Promote a “green culture” and the fundamentals of sustainability, ii. Promote a “green culture” and the fundamentals of sustainability, iii. Reduce carbon footprint through wise actions that benefit our local, regional and global environment, iv. Demonstrate environmental leadership in all municipal operations, and v. Establish London as a leader in green technologies)  Sustainable Infrastructure (i. Ensure affordability for users and ii. Achieve effectiveness, economy and efficiency in operations)



<b>6. Corporate Energy Management</b>	
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Energy (electricity, natural gas, diesel, and gasoline) represents a significant portion of the City's operation costs.</li> <li>• Corporate energy management will help cope with the anticipated rising cost of energy, particularly petroleum products and electricity.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	<p>Levels – Inform, Consult (Involve), Collaborate, Empower</p> <p>Methods – the target audience will be City staff. Specific methods will include Mass media (print, posters, surveys, newsletters), City-led events, Webpage, Intranet-based discussion, short videos/interviews.</p>
Project/Program partners	Currently there are no formal partners. Contributions, resources and ideas have been received from organizations such as the Mayor's Sustainable Energy Council, London Hydro, Union Gas, Veresen London District Energy, Wattsworth, and key corporate stakeholders.
Current timeline	The Corporate Energy Plan is currently underway, with a Draft report to be completed for review by April 2013. The Ontario Regulation 397/11 of the Green Energy Act requires the final Corporate Energy Plan be submitted to the Province by July 1, 2013.
Revised timeline	On or before July 1, 2013, Energy Plans for operations conducted in 2011 are required to be submitted to the Minister. On or before July 1 of every year after 2013, Energy Plans for operations conducted in the year following are required to be submitted to the Minister.
Next CWC report	<p>Spring 2013, a report on corporate energy performance will include:</p> <ul style="list-style-type: none"> <li>• A summary of 2011 Annual Consumptions report, and</li> <li>• A 2011-2013 summary report of previous , current and proposed measures by City of London to highlight our continued commitment to reduce Energy Consumptions</li> </ul>

Background

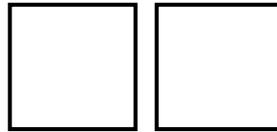
July 1, 2013, the province requires the City and its agencies, boards, and commissions (ABCs) to submit Energy Conservation Plans that, at a minimum, encompasses the following facilities:

- offices (e.g., office or public administration);
- libraries, arts and culture facilities;
- emergency medical services (e.g., ambulance and paramedic), fire, police;
- community centre, arena, indoor pool, multi-use recreation complex;
- public works/transit garage; and
- water pumping and water treatment (i.e., drinking water and waste water).

As a result, the City and the relevant ABCs will be responsible for developing and implementing three year, energy conservation plans for designated facilities, which will need to include a high level description of how we will conserve energy and reduce demand over the life of the plan and a forecast of the expected results. Subsequent plans will also require information on progress and achievements in energy conservation since the previous plan.

In addition, the City and relevant ABCs will be required to provide facility-level information on energy commodities and associated greenhouse gas (GHG) emissions, following the province's Energy Consumption and GHG Emission Template. The good news is that the City is well positioned to meet these requirements because:

- The City has already been undertaking most of these energy conservation and demand management activities under existing corporate energy management activities,
- The level of detail required in the plan would be equivalent to the amount of detail contained within our previous Corporate Energy Management reports, and
- Our energy management software, EnergyCAP, can be modified to accommodate the requirements of the province's Energy Consumption and GHG Emission Template.



However, the two areas where additional effort will be required are:

- employee awareness programs (culture of conservation), and
- energy conservation & demand reduction targets

Key Results

In 2012, a functional review to an improved model for the Corporate Energy Management role was identified. The function to capture the challenges of today’s economy, meeting government requirements and the goals of council contained in the 2011-2014 Strategic Plan created the opportunity to revisit the Management Model for the Corporate Energy Management leadership.

A corporate energy management and conservation team, using a shared leadership and management model was developed using the following framework:

Primary Energy Use Area	Responsibility	Corporate Service Area
1. Buildings and building related matters	Facilities	Corporate Asset Management (Finance)
2. Operational “utility” facilities (pollution control plants, W12A Landfill, water distribution, and pumping stations)	Environmental Programs on behalf of the Operational “utility”	Environment, Fleet & Solid Waste (Environment & Engineering Services)
3. Fleet	Fleet & Operational Services	Environment, Fleet & Solid Waste (EES)
4. Street lights	Transportation	Roads & Transportation (EES)
5. Energy procurement and related matters	Purchasing	Purchasing & Supply (Finance)
6. Agencies, Boards and Commissions	Individual Agencies, Boards and Commissions	Some work done by Corporate Asset Management (Finance)

Funding was approved in 2012 from the Ontario Power Authority, through London Hydro, for an “embedded energy manager” who will work on contract for about 30 months, with 80 percent of the contract salary being funded by the Ontario Power Authority. The 30 month temporary “embedded energy management” position was filled in July 2012, and is currently focused in building retrofit projects within the Corporate Asset Management Facilities Design & Construction service area.

This funding allowed the City to expand its capacity for corporate energy management activities with no net increase in staff costs. The temporary Corporate Management Coordinator position within the Environmental Programs service area was filled in July 2012, and the current focus is to:

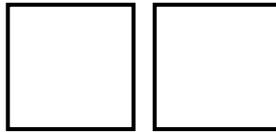
- prepare the energy conservation and demand management plan required by the Province in July 2013, and
- begin the necessary steps to implement this plan.

Next Steps - 2013

In compliance with the Ontario Regulation 397/11 of the Green Energy Act requires the final Corporate Energy Plan will be submitted to the Province July 1, 2013. The report will incorporate and highlight corporate energy performance to date, and will identify and report future conservation methods in relationship to the visions of the Strategic Plan and assistance in cost management strategies for City operations.

In addition, the Corporate Energy Coordinator will draft and propose an employee awareness program to engage staff on efforts to conserve energy within daily activities. The awareness program will assist in the overall communication of the Corporate Energy Management’s goal to conserve energy and meet demand reduction targets assigned in the Corporate Energy Management Plan submitted to the province.

The Corporate Energy Manager will also continue efforts, in partnership with Operational facilities in 2013 to review, suggest, recommend and apply for energy management activities



and incentives that should provide a positive return of investment for the Corporation, and the City of London. The continued efforts in energy management activities will benefit and impact Londoners financially and environmentally for years to come.

<b>7. Subwatershed Planning – the Coves Example</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (i. Protect our natural heritage and environment, ii. Promote a “green culture” and the fundamentals of sustainability, iii. Reduce carbon footprint through wise actions that benefit our local, regional and global environment)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• The subwatershed area, associated neighbourhoods and a community group, called the Friends, provides an incubator for environmental initiatives that can be further implemented across the City in the other neighbourhoods and the 13 subwatersheds.</li> <li>• The Friends have leveraged funding while utilizing minimal city financial support in the ratio of 3:1</li> <li>• The Implementation Committee provides effective oversight by membership of several agencies, to assist in project scoping, planning, and implementing.</li> <li>• Improvements to watershed health are the eventual goals shared by both City Council and the Friends to illustrate the effectiveness and the value of the initiative.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate, Empower Methods – Direct delivery of materials, Briefings, Presentations, Workshops, Webpage, Social media interaction (Facebook and Twitter), Workshops, Community-led events, NGO-led seminars/workshops
Project/Program partners	Friends of the Coves, Old South Community Organization, Heritage Committee, Environmental and Ecological Planning Advisory Committee, Ministry of the Environment, Upper Thames River Conservation Authority
Current timeline	Several activities ongoing with key projects on-track for 2012-13
Revised timeline	Not required
Next CWC report	Summer 2013 unless requested sooner

Background

The Coves Subwatershed Implementation Committee was established by Council in April 2005 to assist in implementing the 59 recommendations from the Coves Subwatershed Plan (see Figure 1), a plan endorsed by Council, but entirely funded and directed by the Friends of the Coves Subwatershed (herein referred to as the “Friends”).

The Committee, co-chaired by City Environmental Programs staff and the Friends, meets as required to plan, discuss and manage ongoing projects and initiatives. As the Committee is composed of a wide range of groups and organizations (including Old South Community Organization, Heritage Committee, EEPAC, in addition to Ministry of the Environment and Upper Thames River Conservation Authority), local environmental projects are more easily scoped, planned and implemented. City staff involvement on the committee is limited to two; one each from Parks Planning and Design and from Environmental Programs.

Key Results

The Friends of the Coves have added-value to environmental projects in the subwatershed by leveraging funding sources to augment City investment by a ratio of 3:1. Approximately 75% of the recommendations from the 2004 Plan have been addressed with many now being implemented through on-going initiatives. The Friends maintain a community presence and assist in engaging neighbourhood residents via their website and participating in community environmental events, such as Gathering on the Green in Wortley Village. Although their office in the Elmwood Presbyterian Church is temporarily closed, they still use their Board Members and volunteers to coordinate volunteer programs. Their membership from the community is approximately 200 paid members with a circulation list of approximately 500 Londoners.

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**Figure 1: Coves Subwatershed Location (boundary in red)**

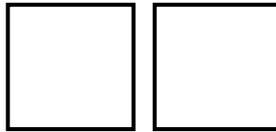


The Friends and the Committee working together have achieved significant success in their work:

1. **Awareness:** They continued to use the educational video produced in 2012 at several environmental events which promote the history and value of the Coves ESA in London and the value of the community involvement in managing the area. They have been using the video, titled, "Coves Crusaders", to highlight key next steps and new opportunities for community involvement in the Coves ESA which serves as a model for other areas.
2. **Community Engagement:** They assisted City staff in communicating complex issues to the residents regarding the purchase of property by the City adjacent to the West Coves which had slope stability challenges. They also assisted in the review and public outreach of the Coves ESA Conservation Strategy in order to address City needs, community needs and environmental requirements. The Friends and Committee will play an important role in implementation of the Strategy and with site specific projects such as the Coves Elmwood Gateway located at Wharncliffe Avenue and Elmwood Avenue.
3. **Environmental Action:** They been instrumental in the successful completion of several pilot projects, supported by City staff within the subwatershed on a variety of environmental topics. These include research into and piloting the use of rain gardens in the subwatershed as an option for private properties to address lot level scale, stormwater runoff.

**Next Steps - 2013**

The Committee will continue its work to assist City staff where appropriate, in several existing and future projects related to the Coves ESA, landowner stewardship and watershed awareness. The Friends continue to plan and help organize various community environmental projects in the subwatershed involving key public properties (Coves Elmwood Gateway, Euston

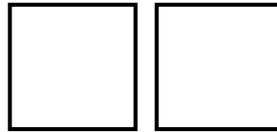


Park, Greenway Park and East Cove Woods). The Friends will continue to investigate external funding given their unique grass roots approach. Their goal is to continue in assisting in environmental implementation projects in the Coves over the next several years.

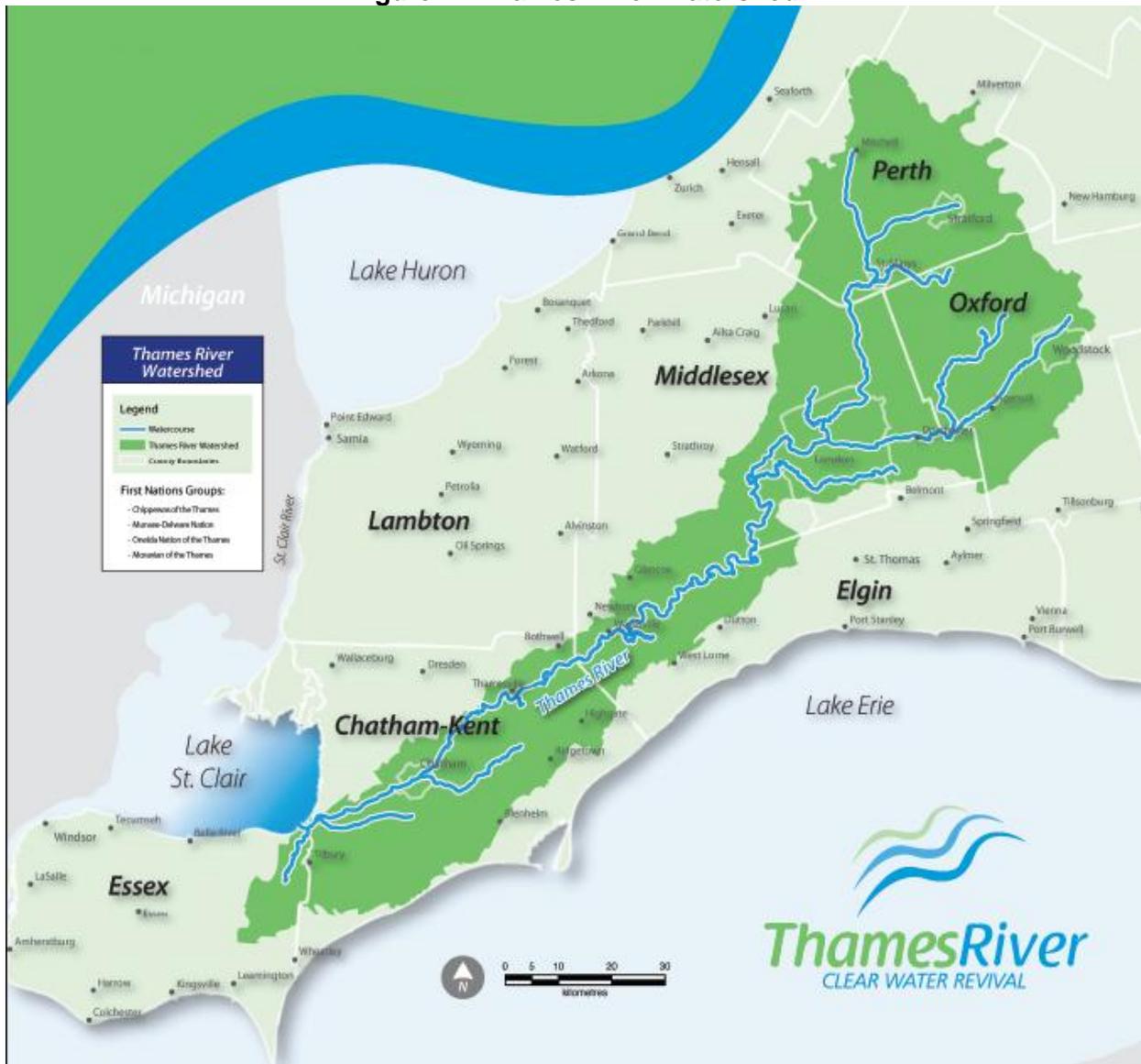
<b>8. Regional Watershed Projects</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (i. Protect our natural heritage and environment, ii. Promote a “green culture” and the fundamentals of sustainability, iii. Reduce carbon footprint through wise actions that benefit our local, regional and global environment) Sustainable Infrastructure (deliver safe and high quality drinking water)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>Using federal and provincial government funding from two initiatives, we are both ensuring the safety of municipal drinking water by addressing water at the source, and working to ensure the long-term protection and enhancement of the Thames River water quality in conjunction with watershed partners.</li> <li>Source Water Protection (SWP) - London maintains both surface water intakes to the Great Lakes via our Regional Water System and back-up wells that draw groundwater for emergency situations</li> <li>Thames River Clear Water Revival (CWR) – London benefits from the existence of the Thames River flowing through the city for a whole host of reasons including environmental, social, and economic reasons.</li> <li>The programs will safeguard water quality in general, and specifically river water quality and drinking water supplies for London and surrounding watershed communities.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate Methods - Direct delivery of materials, Briefings, Webpage, Open Houses, Charettes
Project/Program partners	<ul style="list-style-type: none"> <li>SWP involves a Steering Committee of 21 members, representing three groups of seven municipal members, industry and key environmental groups plus 3 First Nations, a Health Unit representative and a provincial liaison.</li> <li>CWR involves a Steering Committee composed of staff from Environment Canada, three provincial ministries, two Conservation Authorities, two First Nations and London</li> </ul>
Current timeline	<ul style="list-style-type: none"> <li>SWP process is on-track and close to the end of the process. A Plan has been produced by the Steering Committee for MOE approval in 2013. Implementation will follow in 2014 by municipalities primarily through land use planning and by-law enforcement.</li> <li>CWR is on-track having hired a project manager and have initiated a 3 year project to produce a Thames River Water Management Plan using provincial and federal funding.</li> </ul>
Revised timeline	Not needed
Next CWC report	Status reports on SWP and CWR are planned for June 2013.

**Background**

The City of London has arguably the largest ecological footprint in the Thames River Watershed (see Figure 2). This is because we have the largest population, the largest urban geographic area, the most extensive stormwater and wastewater infrastructure, and we are geographically located approximately mid-point between river headwaters and the outlet. London is unique in that it has three Thames River channels; the North Thames, the South Thames, and the Main Channel. All other Thames River watershed communities have only one. Based on these and other factors, we are actively engaged in two regional watershed projects.



**Figure 2 - Thames River Watershed**



**Source Water Protection**

We have been actively engaged in Source Water Protection for seven years that is designed to safeguard municipal drinking water (quality and quantity) at the source.

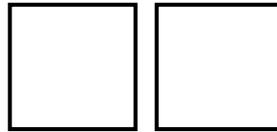
In London, our interests are two-fold, having both primary and standby drinking water sources. Both these sources are regional given that our primary drinking water source is the Great Lakes and our standby system relies on regional groundwater supplies. Therefore, we rely on the combined efforts of several other Regions across the province to safeguard both sources of water being the Great Lakes; specifically Lakes Huron and Erie, and to safeguard our interests in protecting groundwater. Protecting groundwater also benefits environmental connections including baseflow to the river, streams and wetlands within London. Given our regional sources of water, we have an interest in three separate Source Water Protection Regions.

The Thames-Sydenham Region is one of 19 Regions established across the province that combines watersheds using the existing Conservation Authority structure. Steering Committees were formed for each Region to manage the process. The Thames – Sydenham Region includes most of the City of London (84% of the City being that located in the Thames River watershed) and includes our two standby well fields (Hyde Park and Fanshawe well fields).

The process to create the Plans is complete. The Plan was submitted for Provincial Ministry of the Environment approval in December of 2012. Implementation will begin in 2014 upon approval.

**Thames River Clear Water Revival**

Environmental and Engineering Services staff initiated a regional watershed project to assist all levels of government, in the wise management and protection of the Thames River watershed. The multiple partners involved include both the Upper Thames River and Lower Thames Valley Conservation Authorities, watershed municipalities, watershed First Nations, and specific community groups. The initiative, called the "Thames River Clear Water Revival", will update of



the 1975 "Thames River Basin Study" and borrows approaches from the successful HELP Clean Water partnership which focused on our regional drinking water supplies. Using London’s central location in the Thames River watershed as the starting point, this initiative uses a watershed approach as the basis for collaboration in the ultimate goal: improving the health of the Thames River for generations to come.

Key Results

*Source Water Protection*

Previous reports to Council have documented the stages of the work leading up to the completion of the Plan including technical and assessment work (or the “scientific” work) for the two standby well fields. Policies have been prepared for the Region including London, and the Plan has been submitted to the MOE for approval. Implementation options are now being examined.

*Thames River Clear Water Revival*

A multi-partnership Steering Committee has been created representing the wide interest in the initiative. Representation on the committee is currently from Environment Canada, Walpole First Nation, Oneida First Nation, Delaware Nation, Chippawas of the Thames First Nation and from the three provincial ministries: the Environment, Natural Resources, and Agriculture and Food, plus from Upper Thames River CA, Lower Thames Valley CA, and the City of London. A project manager has been hired, a website created ([www.thamesrevival.ca](http://www.thamesrevival.ca)) through UTRCA to help lead the initiative.

Next Steps

*Source Water Protection*

Rethink London Official Plan review process will incorporate policy suggestions from the SWP Plan given that the Plan incorporates various tools including land use planning, by-law and enforcement, education and awareness. Municipalities will play a primary role in implementing the Plan with government ministries and agencies.

*Thames River Clear Water Revival*

The project is a priority project for several provincial and federal ministries and departments given that the Thames River is a significant tributary to Lake St. Clair and Lake Erie. It has attracted provincial funding from Showcasing Water Innovation, being \$402,000 from the Ministry of the Environment for a 3 year project to create a Water Management Plan for the entire Thames River. The plan will be Phase 1 of a multi-year initiative that will evolve with subsequent successes. It complements other City of London initiatives including the ongoing wastewater research partnership that is currently under construction at Greenway PCP with Trojan Technologies and Western University part of the Southern Ontario Water Consortium.

<b>9. London Clean &amp; Green</b>	
Relationship to Council’s Strategic Plan 2011-2014	A Green and Growing City (i. Promote a “green culture” and the fundamentals of sustainability, ii. Reduce carbon footprint through wise actions that benefit our local, regional and global environment) A Vibrant and Diverse City (i. Build the vibrancy of the downtown including special events, ii. Invest in neighbourhoods, iii. Encourage volunteerism and community engagement)
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Harnessing, encouraging and growing community capacity for London’s environment and economy benefits all Londoners</li> <li>• Direct community and business action, coupled with appropriate taxpayers investment through the City, is a positive, meaningful and rewarding direction</li> <li>• This project has built new relationships with community and business partners.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve) Methods - Direct delivery of materials, Briefings, , Mass media (print, radio), Presentations, Workshops, Webpage, Social media interaction (Facebook and Twitter), Workshops, Community-led events, NGO-led seminars/workshops

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<b>9. London Clean &amp; Green</b>	
Project/Program partners	London Public Library, Try Recycling, Tim Hortons, Our Street, Upper Thames River Conservation Authority Amway, tbk Creative, ecoLIVING London, Dillon Consulting, Thames Region Ecological Association, ReForest London, Celebrate London, London Strengthening Neighbourhoods Strategy
Current timeline	Starts April 9 until early June
Revised timeline	Not required
Next CWC report	Not required unless requested

Background

London Clean & Green had its start in 1996 when 30 people coordinated by Joe Kool's picked up litter and removed graffiti on a Saturday morning in downtown London. The program has grown in a number of ways from people and resources to program length. Cleanup activities now attract between 5,000 and 10,000 people and events start in early April and go until early June.

Results

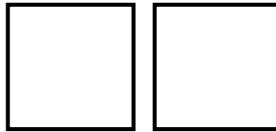
In 2012 there was an increased focus "cleaning" activities under the banner 12 Days of Cleaning. The goal was to make Londoners and businesses aware that there are numerous locations to deliver items that often become litter and garbage (i.e., a focus on preventing the creation of litter and garbage). The fifteen partners assisted in the additional promotion and awareness of "clean" and "green" activities from early April until early June 9. It was the most ambitious London Clean & Green promotion since its inception.

Estimates suggest that about 10,000 people volunteered their time between the 20 Minute London (Business) Makeover on April 20 and the Community Clean up on April 21. Between 18 and 20 tonnes of litter and garbage has been collected from boulevards, parks, neighbourhoods and river banks. London Police Service also coordinated the removal of graffiti in a number of areas.

Key green events after the initial cleanups included:

- Numerous tree plantings
- Smart Moves 2030 Transportation Master Plan
- Grickle Grass Festival
- Plant sales
- Used Tire Collection
- Euston Park Community Day
- Protecting The Great Lakes Forever
- Coves Crusaders film (Hyland Theatre)
- Electronics recycling
- Gathering on the Green (Old South)
- Bike Festival (many days, many events)
- Our Street Day (downtown)





Next Steps - 2013

The 2013 London Clean & Green Program, which starts April 9, is going to be modeled very closely after the successful 2012 project. A few new groups, such as the London Home Builders Association, are going to hold additional green events during the same period. Other plans are being discussed and coordinated and will be identified shortly.

<b>10. Enhancing Environmental Outreach and Strengthening Community Capacity</b>	
Relationship to Council's Strategic Plan 2011-2014	A Green and Growing City (i. Promote a “green culture” and the fundamentals of sustainability, iv. Demonstrate environmental leadership A Caring Community (increase the health and well-being of all citizens. A Vibrant and Diverse City (ii. Invest in neighbourhoods, iii. Encourage volunteerism and community engagement.
Indicate how it is addressing cost impacts and/or value to customers	<ul style="list-style-type: none"> <li>• Harnessing, encouraging and growing community capacity for London’s environment and economic benefits for all Londoners.</li> <li>• This project has built new relationships with community and business partners.</li> </ul>
Indicate levels and methods of engagement used (or to be used)	Levels – Inform, Consult (Involve), Collaborate, Empower Methods – Mass media (print, radio), Presentations, Workshops, Webpage, Social media interaction (Facebook and Twitter), Workshops, Community-led events, NGO-led seminars/workshops, one-on-one discussions.
Project/Program partners	Various and assorted groups
Current timeline	Underway for the remaining year
Revised timeline	Not required
Next CWC report	Not required unless requested

Background

Environmental Programs is involved in numerous environmental initiatives with our community and neighbourhood partners, both directly and indirectly. Previous pages in this Committee Report outline the various programs and initiatives where we take a leadership role and work closely with different partners to deliver the initiatives.

For many other environmental outreach initiatives, the approach we take is to attend as many coordination sessions, community events and festivals as feasible where the activities are already planned. This is often achieved by partnering with staff from other City divisions, ABCs, and other environmental partners.

Our efforts are also tailored to assist with capacity building and strengthening neighbourhood and community groups and to help with partnership contributions. These efforts will ultimately assist these groups with their outreach while expanding the City’s audience for environmental communication.

Key Results

In order to best engage citizens, we have managed to attend a wide spectrum of festivals and celebrations, including:

- Events hosted at the Western Fair District (e.g., the London Home Builders Lifestyle Home Show and the London Home and Garden Show that attract over 10,000 attendees),
- Events hosted by neighbourhoods (e.g., Summerside Canada Day, Summer Solstice at the Forks, Gathering on the Green which can attract from 100 to 1,000 attendees),
- Events hosted by community groups and organizations (e.g., Seedy Saturday, World Water Day events at Western University and with the Council of Canadians that attract from 100 to 500 attendees),

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- Events hosted by our environmental partners (e.g., Earth Day at Watson Park, TREA Bicycle Festival, Car Free Days, Children’s Water Festival), and
- Events hosted by our business partners (e.g., Old Oak Properties Earth Day, General Dynamics, Green Home Open House with London Home Builders with a range of participants).

In order to assist these groups with innovative and effective displays, we continue to test new engagement tools, new display models and updated technology. Examples include:

- Portable display trailer and materials for efficient set up and engagement,
- Touch screen technology for interactive displays,
- Web based and social media applications, and
- Displays created using recycled and environmentally-friendly materials.

Next Steps - 2013

In addition to the continued participation in community events in 2013, of which many are associated with London Clean & Green (in April, May and June), and testing new engagement tools, Environmental Programs staff will engage in the following new activities:

- Explore and test the use of the City of London’s access to Environics Analytics’ Envision geodemographics service to better understand the diverse communities of London for improved and targeted delivery of Environmental Programs activities to these communities;
- Work with others members of the ad-hoc Environics Roundtable, made up of City of London and ABC staff, to explore opportunities where target audiences and messages can provide mutual support;
- Explore and test the use of making Environmental Programs data (e.g., energy mapping data, watershed data) available through the City of London's Open Data initiative;
- Provide in-kind support to neighbourhood groups/associations and other community-led organizations to help achieve mutual goals through no cost/low cost solutions (e.g., Environmental Programs content for community newsletters, combined delivery systems and events);
- Capitalize on collaborative efforts with other City divisions and environmental groups on activities, including Rethink London, Strengthening Neighbourhoods, Urban Forestry Strategy, and the Conservation Authority Watershed Report Cards to advance environmental stewardship; and
- Seek out and assist with low cost pilot projects that can meet multiple environmental objectives to illustrate “on the ground” examples of environmental stewardship.