

ENVIRONMENT COMMITTEE – NOVEMBER 24, 2009

GREEN DIRECTIONS VAUGHAN COMMUNITY SUSTAINABILITY AND ENVIRONMENTAL MASTER PLAN IMPLEMENTATION UPDATE AND OUTLOOK FOR 2010

Recommendation

The City Manager, in consultation with the Senior Management Team recommends that:

This report and Attachment 1, outlining progress to-date in the implementation of the actions prescribed in Green Directions Vaughan, be received for information purposes;

Contribution to Sustainability

Objective 6.1 of Green Directions, "To fully support the implementation of Green Directions at all levels of City operations", provides under Action 6.1.6 that, an annual report to the Environment Committee be prepared on the status of existing programs and accomplishments for the purpose of monitoring the implementation of the plan.

Economic Impact

There will be no economic impact resulting from the adoption of this report.

Communications Plan

A communications plan will not be required as a result of the adoption of this report. Some of the individual actions identified herein may require communications support. The type of response for such initiatives will be evaluated on their specific needs.

Purpose

The purpose of this report is to provide the Environment Committee with an update on the implementation of the Green Directions Vaughan plan and the plans for 2010.

Background – Analysis and Options

a) **Background**

On April 14, 2009 Council approved the Green Directions Vaughan Community Sustainability and Environmental Master Plan. Green Directions is a component of *Vaughan Tomorrow*, the City's comprehensive growth management program. *Vaughan Tomorrow* is mandated by the City's Strategic Plan *Vaughan Vision 2020* and includes the preparation of a new official plan and a series of master plans addressing the delivery of services and infrastructure.

As the City's sustainability plan, Green Directions contains a set of recommended actions that address the entire range of municipal responsibilities including both operational and regulatory functions. It will also serve as the City's Integrated Community Sustainability Plan (ICSP). The ICSP is a long-term plan designed to guide the community toward a more sustainable future by addressing environmental, cultural, social and economic issues. Preparation of the ICSP is a requirement of the federal government's new deal for cities as a condition of receiving funding from the federal gas tax.

Green Directions establishes a definition of "sustainability", an "environmental ethic" and a set of "principles" to guide the implementation of the plan. The definition of

sustainability reflects the breadth of municipal responsibilities, where, "Sustainability means we make decisions and take actions that ensure a healthy environment, vibrant communities and economic vitality for current and future generations."

The plan identifies six categories that classify Vaughan's functions. These are further broken down into goals, objectives and a series of actions, which describe how each of the goals can be achieved. The categories and goals include:

What We Use:

Goal 1: To significantly reduce our use of natural resources and the amount of waste we generate.

How and Where we Grow:

Goal 2: To ensure sustainable development and redevelopment.

How We Get Around:

Goal 3: To ensure that Vaughan is a city that is easy to get around with low environmental impact.

How We Live:

Goal 4: To create a vibrant community where citizens, businesses and visitors thrive.

How we Lead:

Goal 5: To be leaders in advocacy and education on sustainability issues.

How we Operate:

Goal 6: To ensure a supportive system for the implementation of Green Directions.

The objectives are more specific statements of the general goals and they describe how the goals will be achieved. Each of the goals has multiple objectives. The actions refer to tasks that need to be undertaken to achieve the prescribed objective. There can be multiple actions attached to each objective. Actions are assigned to a Commission for implementation within a specific timeframe.

This report will focus on the status of the implementing initiatives set out in Section 3 "Action Plans" of Green Directions. Section 3 forms Attachment No. 1 to this report.

b) **Basis for an Annual Report**

Under Goal 6, "To ensure a supportive system for the implementation of Green Directions", it is emphasized that much of the success of the plan will depend on the internal operations and functions that support its implementation. The plan prescribes a series of administrative, oversight, and monitoring actions that are designed to ensure that Green Directions is fully integrated into the City's day-to-day operations.

Objective 6.1 of the plan is to, "Fully support the implementation of Green Directions at all levels of City operations". Paragraph 6.1.6 provides that the City:

Prepare an annual report to the Environment Committee on among other things:

- The status of existing programs (milestones);
- Accomplishments;
- New Initiatives; and
- Further opportunities

for the purposes of monitoring the implementation of the plan.

This update will be the initial reporting on Green Directions since its approval in April 2009.

Consistent with Paragraph 6.1.6, Section 4.2, "Monitoring and Reporting on Progress" recommends that staff report annually to the Environment Committee on the implementation of the plan. Section 4.2 also provides that, two years after Council's approval of Green Directions (April 2011), a report be prepared identifying baseline sustainability/environmental indicators. The indicators will provide the basis for assessing the City's progress in implementing the plan. Thereafter, it is recommended that an indicator report (or State of the Environment Report) be published on a minimum five year cycle to report on longer term changes.

Ultimately it will be an objective to produce a more formal annual report, suitable for publishing/posting on the City's Website.

c) Focus of the Update and the Format

This report will be guided by the requirements of paragraph 6.1.6. Given the early stage in the lifecycle of Green Directions the focus will be on measures taken to-date to implement the plan's action steps and the activities anticipated for 2010. As such, the primary attention will be directed to projects that are identified for the 2009-10 timeframe or on projects that are classified as "On-going". Comments may also be provided for actions planned in the post-2010 period, where preliminary work may have occurred or where additional information is available.

Attachment No. 1 is based on Section 3, "Action Plans", of Green Directions. The attachment maintains the plan's format, which sets out the Goals, Objectives, Time Frames and Project Responsibility (Owner and Resource) pertaining to each Action. The update is set out in a new field entitled, "Status November 2009".

d) Observations on the Results To-date

The following conclusions can be drawn in reviewing the update, in regard to the 2009-10 Actions as set out in Attachment No. 1:

- **Substantial Work is Already Underway:** City departments are currently undertaking a wide range of actions or are planning to start in 2010;
- **A Foundation is Being Built:** The *Vaughan Tomorrow* – Official Plan/Master Plan exercises, which will be a major contributor to the City's sustainable future is on track for adoption in 2010;
- **There are High Potential New Initiatives for 2010:** Major projects like the District Energy Feasibility Study and the Eco-Industrial Park Feasibility Study, which are programmed to begin in 2010, have the potential to become major contributors to the City's future;
- **Administrative Issues Require Attention:** Issues pertaining to the operation of the Environment Committee and implementation of Green Directions should be addressed in the new year in accordance with the plan.
- **Advocacy, Outreach and Education is Critical:** Sustainability is about culture change. This is an opportunity for the City to build on its existing work in these areas to promote its sustainability objectives. Actions identified in the plan should be implemented early in the new year.

Staff will proceed with the work that is already underway and begin new actions as prescribed by the plan.

e) Moving forward into 2010

Ideally, it is the objective to complete all of the work programmed for 2009-2010 within the identified timeframe. However, because of the election cycle it will be necessary to focus on the January – June 2010 timeframe to deal with reporting and administrative issues and to receive any necessary direction from the Environment Committee. Staff will take this into consideration when scheduling matters that require Committee approval, input or instruction. This will ensure that as many projects as possible can proceed during the summer/election interval.

All of the projects identified in Green Directions for 2009-10 will be proceeding on the basis of the information provided in Attachment No. 1. A number of significant actions, like *Vaughan Tomorrow* and its related studies, will be continuing along their prescribed approval tracks. As noted above, there are several action areas that the Environment Committee will need to address. They include a number of administrative and advocacy issues that will support the operation of the Environment Committee and assist in the implementation of Green Directions. Since they are fundamental they should be resolved early in 2010. Green Directions addresses them in the following manner.

f) Administrative Initiatives

These actions are primarily captured under Goal 6: “To ensure a supportive system for the implementation of the Community Sustainability and Environmental Master Plan”. Completion of the targeted actions under this goal will allow the Environment Committee to confirm its direction and ensure the efficient implementation of the plan and the operation of the Committee.

6.1.3 Review and confirm the Mandate, Terms of Reference and Membership of the Environment Committee, in consideration of the approval of Green Directions. Also assess the future role of the Greening Vaughan Advisory Committee.

6.1.4 Make required organizational and staffing adjustments to support the Environment Committee and the implementation of Green Directions which will include additional resources.

On November 10, 2009 Committee of the Whole recommended that the Greening Vaughan Advisory Committee remain in place until the conclusion of the current term of Council and the approval of a new Terms of Reference for the committee. Under the revised Terms of Reference the Greening Vaughan Advisory Committee will report to Council through the Environment Committee. Ultimately, there will be the need to confirm the format for a public advisory committee.

g) Advocacy and Education

Culture and attitude change will play a lead role in moving toward a society founded on the principles of sustainability. As a municipal government, the City of Vaughan can be a leader by supporting, introducing, explaining and advocating measures that will result in a more sustainable world. A municipal government speaks to many audiences including, residents, business, other municipal governments and senior levels of government. This opportunity is recognized by Green Directions.

Goal 5: "To be leaders in advocacy and education on sustainability issues", includes a number of actions that will position the City to move ahead. They have an administrative dimension that could be addressed comprehensively with the review of the Environment Committee's mandate and terms of reference under 6.1.3. These issues are policy oriented and would contribute to the overall management of the Committee. They include:

- 5.2.2 Develop an advocacy policy to identify, evaluate and select environmental issues that the City wishes to take a formal advocacy role, including such matters as level of involvement and resources required.
- 5.2.3 Create an inter-governmental relations strategy ensuring that the City of Vaughan participates in provincial, national and international forums and collaborates with neighbouring municipalities to share best practices.
- 5.2.4 Develop a policy for the consideration of partnering opportunities that may be initiated by the City, other governments and the private sector or public agencies.
- 5.2.5 Identify organizations for which the City should obtain membership. Participation in such initiatives should improve the City's profile, offer contact opportunities for advocacy in areas of strategic importance.

Addressing these Actions would set the framework for the Committee and staff to identify and prioritize advocacy initiatives

Education and consultation are related issues. As set out below, the intent is to foster a two-way dialogue between City staff and the public, where knowledge and information flows both ways. The following initiatives will need to be pursued or investigated in the first half of 2010. These include:

- 5.1.5 Develop an environmental education strategy to familiarize staff with the provisions of Green Directions expanding into an on-going education program. (Note: This could be paired with using the new Civic Centre for tours illustrating sustainable construction and energy conservation as in 5.1.3)
- 5.1.6 Develop an information kit and provide copies of Green Directions for use in Vaughan's schools.
- 5.2.6 Explore opportunities to work in partnership to create a public Vaughan Community Sustainability Forum to gather interested stakeholders together to share best practices in environmental and sustainability issues and facilitate the implementation of the outcomes.

Action 5.2.6 provides the opportunity for a public forum that would draw citizen's from beyond the usual advisory groups. This would provide differing perspectives and a chance to engage a broader public. It is expected that the forum would be held annually. If this was to occur mid-2010 planning would have to begin early in 2010 and would be subject to budget availability. Otherwise, it could be held in the first quarter of 2011.

The discussion of these opportunities should have early priority.

h) Major Initiatives Under Consideration for 2009-10

In addition to the actions that are now underway, several major projects are identified for 2010. They are examples of initiatives that have the potential to improve the City's environmental profile and support economic development. If implemented, either individually or in combination, they will represent a major move forward in our approach to energy use, the environment and economic development.

District Energy Feasibility Study

Under Objective 1.2: "To promote the reduction of greenhouse gas emissions in the City of Vaughan", Action 1.2.2 provides that the City consider opportunities for developing community energy strategies for new development areas for the purpose of reducing energy consumption by applying a number of measures, including District Energy Systems. It further provides that the City should also evaluate major development areas for district energy and other alternative energy forms. As a pilot program, a feasibility study should be undertaken to examine such opportunities in the Metropolitan Centre, concurrent with the review of the Metropolitan Centre Secondary Plan.

While focusing on the Metropolitan Centre as a pilot program, a district energy study would also examine other opportunities available to the City. These include the Vaughan Health Campus of Care, the Vaughan Enterprise Zone and the 400-North Employment Area (OPA No. 637). The study will examine issues such as market potential, preferred technology (e.g. combined heat and power), fuel source, evaluation of infrastructure needs, organizational structure and steps required to move beyond feasibility into implementation.

The objective is to parallel this exercise with a number of on-going official plan exercises to ensure that the land use policies support the implementation of district energy systems. This would apply to the Metropolitan Centre, the Vaughan Enterprise Zone and the Jane Street Major Mackenzie Drive Land Use Study (The Vaughan Health Campus of Care). The intention is that the District Energy Feasibility Study be completed by the end of June, with the study informing the Official Plan exercises as they proceed.

This study should be a priority given the potentially significant benefits to the environment, the timing of the on-going official plan review exercises and the role such systems can play in supporting business competitiveness and economic development. A draft Terms of Reference for the study has been prepared. Because this represents a potential business opportunity in the energy sector, staff will be preparing a report to the Board of Directors of Vaughan Holdings Inc. for the purposes of obtaining funding for the project (approximately \$100,000) and direction to proceed with the issuance of a Request for Proposals for consulting services.

Eco-Industrial Park Feasibility Study

Under Objective 4.3: "To encourage the establishment of green businesses and sustainable business practices", Action 4.3.2 provides for the City to, "Undertake an eco-industrial park feasibility study." Green Directions describes an Eco-industrial Park in the following manner:

An eco-industrial park is a community of manufacturing and service businesses seeking enhanced environmental and economic performance through collaboration in managing environmental and resource issues, including energy, water, and materials. By working together, the community of businesses seeks a collective benefit that is greater than the sum of the individual benefits each company would realize if it optimized its individual performance alone. The goal of an eco-industrial park is to improve the economic performance of participating companies while minimizing their environmental impact.

This definition is based on the actions of individual firms working together to manage their operations in a more sustainable manner for their financial benefit. In order to attract such firms it will also be essential to provide the necessary public policy and infrastructure support. In addition, marketing will also play an important role the promotion of the concept.

The underpinning for an eco-industrial park is a well-planned development which supports or facilitates energy efficient buildings and the use of techniques such as district energy, cogeneration and alternative energy sources like ground source geothermal and photovoltaic. As such, a comprehensive eco-industrial park study would need to meld policy/infrastructure, private action and marketing to create employment areas that would attract the sustainable businesses and industries of the future. This approach would need to be recognized in the City's new official plan and in the updated economic development strategy.

It is expected that the first implementation of an eco-industrial park strategy would be the City's greenfield employment areas (Vaughan Enterprise Zone and possibly the Vaughan-400 North Employment Area). The concept is also applicable to existing employment areas. However the uptake in developed areas would likely be slower given the fixed assets and operational needs of the established businesses. Application in greenfield areas will allow for branding and marketing initiatives to attract businesses interested in this type of setting at the outset. In addition, it could be a characteristic used to brand a prestige business park, should the City choose to move in that direction.

Like the District Energy feasibility study, pursuing an eco-industrial park strategy has the potential to produce major environmental benefits. It may also provide the City with a new branding and marketing opportunity, allowing it to target sustainable businesses and industries that reflect the 21st Century economy. This study will ultimately complement the new Official Plan policies, the Employment Sectors Strategy Study and the updating of the Economic Development Strategy. The initial steps in 2010 will be to ensure that the City's new official plan policies are supportive; and the refining of this opportunity through the preparation of the Economic Development Strategy.

Alternative Energy Initiatives

As noted, Action 1.2.2 provides that the City consider, through partnerships, opportunities for developing community energy strategies for new development areas for the purpose of reducing energy use by applying such measures as co-generation/distributed power generation and photovoltaic, geothermal and wind systems. In addition Action 1.2.1 recommends advocating, where appropriate, for the use of existing infrastructure to allow citizens and businesses to share excess capacity to the energy grid.

PowerStream Inc. is now examining its opportunities under the Green Energy Act to become a generator of sustainable electricity using rooftop photovoltaic arrays. PowerStream has approached the City on this matter as a shareholder in the company. It is expected that once this opportunity is more fully developed it will be brought before the Board of Directors of Vaughan Holdings Inc. for consideration. In addition, PowerStream is evaluating the potential of City of Vaughan facilities for the purpose of producing photovoltaic power under the Feed in Tariff program.

While not specifically identified in Green Directions, this initiative represents an opportunity that is consistent with the policies of the plan. It has potential environmental benefits, it may provide economic benefits and it can reinforce and support other measures the City is investigating like the development of district energy systems and eco-industrial parks.

Relationship to Vaughan Vision 2020

This report is consistent with the following objectives and initiatives.

Lead and Promote Environmental Sustainability

- Develop and implement an Environmental Master Plan as part of the Growth Management Strategy 2031

Plan and Manage Growth & Economic Development

- Complete and Implement the Growth Management Strategy

Regional Implications

There are no Regional implications resulting from the adoption of this report.

Conclusion

With Council's approval of Green Directions in April 2009 the City has committed itself to achieving a more sustainable future. As illustrated in Attachment No. 1, progress is being made on a range of important initiatives. Looking ahead to 2010, emphasis will need to be placed on a number of thematic areas. These include:

- Finalizing the administrative and policy framework to ensure the effective implementation of Green Directions and operation of the Environment Committee;
- Ensuring that education and outreach measures continue and are enhanced;
- Commencing some major actions that can play an important role in the City's sustainable future, including the District Energy and Eco-industrial Park feasibility studies; and
- The continued prosecution of projects that are already underway, including the implementation of the *Vaughan Tomorrow* growth management program, consistent with the update set out in Attachment No. 1.

Given the election, it will be necessary to focus on the first half of 2010 for the purposes of obtaining approvals and direction from the Environment Committee in order to further the existing program and respond to new issues and initiatives. This will allow for the continued advancement of the plan during the summer/election interval in 2010.

Therefore it is recommended that this report and the update set out in Attachment No. 1 be received for information purposes.

Attachments

1. Green Directions Vaughan
Community Sustainability and Environmental Master Plan
Implementation Update and Outlook for 2010
November 2009

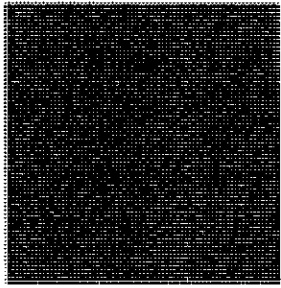
Report Prepared by

Roy McQuillin, Manager of Corporate Policy, ext. 8211

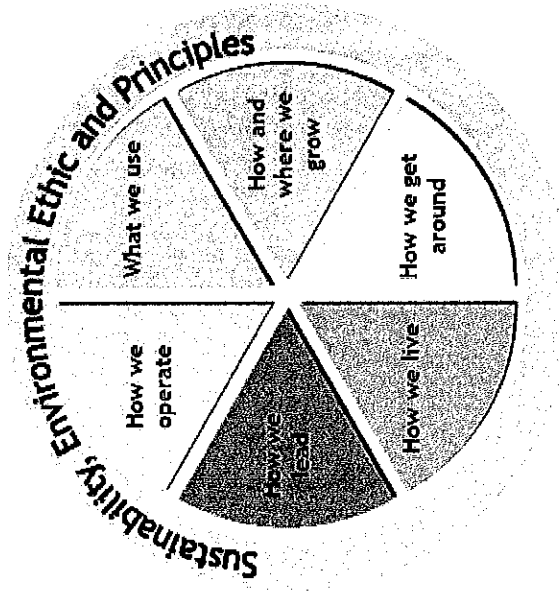
Respectfully submitted,

Clayton D. Harris
City Manager

Attachment No. 1

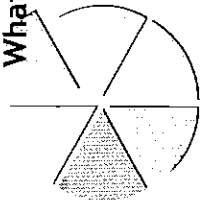


**COMMUNITY SUSTAINABILITY AND ENVIRONMENTAL MASTER PLAN
IMPLEMENTATION UPDATE AND OUTLOOK FOR 2010**



**Environment Committee
November 24, 2009**

What we use



Goal 1: To significantly reduce our use of natural resources and the amount of waste we generate

The City of Vaughan, as a leader in sustainability, is committed to making prudent choices about its consumption of goods and resources. The action plans related to “what we use” in Vaughan focus on sustainable energy use to reduce our greenhouse gas emissions and improve air quality, a more conservative approach to water use in our facilities and a commitment to reducing the amount of garbage generated in our own facilities and a 100% waste diversion target as part of the Greening Vaughan strategy. In addition, the City encourages sustainable procurement and the use of local, renewable energy sources. The action plans associated with this goal were created with a recognition of global climate change, implementation of the Energy Conservation Leadership Act, and the need to monitor and reduce energy consumption.

Objective 1.1: To reduce greenhouse gas emissions and move towards carbon neutrality for the City of Vaughan’s facilities and infrastructure

Actions	Time Frame	Project Responsibility Owner	Status
<p>1.1.1. Seek creative funding for energy saving projects in municipal facilities, including:</p> <ul style="list-style-type: none"> Developing an energy savings policy to ensure that the funds recouped from energy savings are reinvested into energy-related initiatives; and Applying to the Municipal Eco Challenge Fund (MECF). 	Ongoing	<p>Deputy City Manager</p> <p>Community Services Manager & Engineering and Public Works</p>	<p>November 2009</p> <p>Policy options will be reviewed in 2010. This exercise will need to be coordinated with the development of a grant strategy aimed at ensuring that the City optimizes its opportunities to obtain funding for sustainability projects from senior levels of government.</p>
<p>1.1.2. Evaluate the city’s greenhouse gas emissions by completing an energy audit on all City facilities (Partners for Climate Protection Milestone 1) by building upon the ongoing work of other municipalities (i.e., templates).</p>	2009-2010	<p>Community Services</p> <p>Engineering and Public Works</p>	<p>An RFP for Auditing Services is being prepared for issuance in the 4th Quarter of 2009. In addition, through an AMO sponsored program, utilities data (energy/water consumption) is being assembled as part of a benchmarking exercise for recreation facilities. Data expected in December 09.</p>

Objective 1.1: To reduce greenhouse gas emissions and move towards carbon neutrality for the City of Vaughan's facilities and infrastructure, continued

Actions	Time Frame	Project Responsibility Owner	Resources	Status
<p>1.1.3. Prepare an annual energy conservation plan pursuant to the Energy Conservation Leadership Act, 2006, S.O. 2006, C3. Such plan shall be prepared in accordance with the requirements of the Act, including:</p> <ul style="list-style-type: none"> • An itemized description of significant energy consuming technologies and operations; • Annual energy usage of each of the technologies and operations; • Current and proposed activities and measures to conserve energy used by the technologies and operations and otherwise reduce the amount of energy used; • A summary of the programs and achievements in energy conservation and other reductions since the previous plan; and • Any such information as may be prescribed. 	As determined by the regulations (not yet issued by the Province)	Community Services	Engineering and Public Works & Vaughan Fire and Rescue Services	November 2009 Requirements have now been incorporated into the Green Energy and Green Economy Act. Initiation of the audit program will allow the City to respond in a timely manner, once the regulations have been issued.
<p>1.1.4. In preparation for the provincially-mandated responsibilities associated with 1.1.3, join Partners for Climate Protection (PCP) is a network of 166 Canadian municipal governments who have committed to reducing greenhouse gases and acting on climate change) as a way of showing leadership on climate protection issues.</p>	Based on the timing of the implementation of 1.1.3. and 1.1.2.	Community Services	Engineering and Public Works	Membership will be pursued Q1-Q2 of 2010.

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

Objective 1.1: To reduce greenhouse gas emissions and move towards carbon neutrality for the City of Vaughan's facilities and infrastructure, continued

Actions	Time Frame	Project Responsibility Owner	Status November 2009
<p>1.1.5. Develop an emissions reductions plan (PCP Milestone 2) for City facilities. This reduction plan should examine:</p> <ul style="list-style-type: none"> • Moving towards carbon neutrality; • Potential savings in new buildings and existing infrastructure (retrofits); • Implementing a "lights-out" initiative for municipal buildings; • Energy conserving streetlight pilots; and • Support for local, renewable sources of energy. 	<p>Based on the result of the audit performed in 1.1.2.</p>	<p>Community Services Engineering and Public Works</p>	<p>Opportunities for the emission reduction plan will be reviewed on completion of the audit. Some initiatives already underway. Community Services Currently testing alternative energy efficient lighting systems: LEDs in Parks and Walkways and high bay fixtures at the JOC. <u>Engineering and Public Works</u> Installation of three types of new street lights, Induction Lighting (IL), Light Emitting Diode (LED), and High Efficiency Fluorescent (HEF) along Islington Avenue, Kleinburg has been completed. We are in the process of conducting an evaluation of these lights. Completion of this pilot is contemplated to be before the end of 2009. We have retained a street lighting consultant to assist in the evaluation of the test lights. We anticipate a report to Committee in early 2010 to recommend selection of a light fixture type and a subsequent tender to retrofit a portion of the City's existing street light system. These works will be funded under the Infrastructure Stimulus Funding project for Energy Efficient Street Lighting.</p>
<p>1.1.6. Develop a comprehensive green fleet strategy</p>	<p>2011-2014</p>	<p>Community Services Engineering and Public Works & Vaughan Fire and Rescue Services</p>	<p>Targeted for the latter part of the timeframe (2011-14)</p>

Objective 1.2: To promote reduction of greenhouse gas emissions in the City of Vaughan

Actions	Time Frame	Responsibility Owner Resources	Status November 2009
<p>1.2.1. Demonstrate support for renewable energy use and generation by businesses and citizens, by:</p> <ul style="list-style-type: none"> Identifying partnership opportunities with business, industry, utilities and agencies in the implementation of new and alternative energy sources or systems (including options for landfill gas); Reviewing City by-laws to minimize, where appropriate, obstacles to the development of alternative energy sources and where regulation is necessary (subject to the proposed <i>Green Energy Act</i>), develop the necessary standards; 	<p>Ongoing 2009-2010</p>	<p>Economic Development Planning Legal</p>	<p>To be undertaken through the preparation of the Economic Development Strategy targeted for June of 2010. VBEC has entered into a partnership with PowerStream Inc. to conduct small business workshops focusing on energy saving techniques and funding sources.</p> <p>Measures to Date Planning staff has monitored progress on the <i>Green Energy and Green Economy Act</i>. On May 14, 2009, the Government of Ontario passed the <i>Green Energy and Green Economy Act (GEGEA)</i>. The GEGEA enacts the <i>Green Energy Act</i> and amends over 16 other Acts. Regulations associated with the <i>Green Energy Act</i> are still being drafted. From a planning perspective, the <i>Green Energy Act</i> limits municipal powers under the <i>Planning Act</i>. Most significantly, the GEGEA creates a new section in the <i>Planning Act</i>, section 62.0.2, which exempts renewable energy generation projects from numerous sections of the <i>Planning Act</i>, including those dealing with official plans, zoning by-laws, demolition control areas, and development permit systems. The exemption of renewable energy generation projects from these sections means that municipalities have limited ability to block, alter or control renewable energy generation projects. Nevertheless, consultation between the project proponent and the municipality will be one of the requirements for a Renewable Energy Approval.</p> <p>2010 Work Plan Given the limited authority provided to municipalities under the <i>Planning Act</i> to review and approve renewable energy projects, a work plan to address development application review of renewable energy projects should only be developed once more regulations are in place under the <i>Green Energy Act</i>.</p>

Such review will be in conjunction with the Legal Department, as required. The GEGEA amends the *Electricity Act* to allow a municipality to generate up to 10 MW using a renewable energy generation facility. Previously, municipalities could only generate electricity using an independent corporation. The ability to generate electricity from renewable sources without the creation of an independent corporation will allow municipalities to increase their revenue through participation in the Ontario Power Authority's (OPA) Feed-in Tariff (FIT) program and selling electricity onto the grid. Acting on this opportunity requires collaboration of several departments, including the Planning Department. Our role is best defined through the Official Plan Review process to identify the most appropriate locations for green energy, such as biomass heat and power units supplying energy in a district energy system. **Budget Status**
Staff resources alone are likely sufficient to adjust policies and By-Laws, if required, to be consistent with the GEGEA.

- Advocating, where appropriate, for the use of existing infrastructure to allow citizens and businesses to share excess capacity to the energy grid; and
- Providing access to education about alternatives and grants (e.g. The Community Power Fund to support community-owned renewable energy projects in Ontario).

On-going
2009-2010

Deputy
City Manager
Deputy
City Manager

Corporate
Comm.

The City is in discussions with PowerStream to advance opportunities for photovoltaic power generation provided by the Green Energy Act through the Feed-in-Tariff (F.I.T.) program.

The City currently provides information and education on alternative energy resources and funding opportunities through its website, community events and workshops. The City will continue to partner with appropriate agencies, including the province of Ontario, PowerStream and local non-profits to ensure the most up-to-date information is available to the community. For example: Joint PowerStream-VBEC workshops geared toward the small business community, regarding conservation and generation as they relate to current regulations.

Objective 1.2: To promote reduction of greenhouse gas emissions in the City of Vaughan, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
<p>1.2.2. Through partnership, consider the opportunities for developing community energy strategies for new development areas for the purpose of reducing energy use on a community or neighbourhood basis, by applying such measures as:</p> <ul style="list-style-type: none"> • Energy conservation measures applied to community and building design, implemented through the planning process; • District energy systems; • Co-generation and distributed power generation; and • Photovoltaic, geothermal and wind systems. <p>The City evaluates all major development areas for their potential for district energy systems and other appropriate alternative energy forms. As a pilot program, initiate a feasibility study to examine the opportunities for developing a district energy system in the Vaughan Corporate Centre, concurrent with the review of the Vaughan Corporate Centre Secondary Plan.</p>	2009-2010	Deputy City Manager	Engineering and Public Works & Planning	<p>November 2009</p> <p>The draft Regional Official Plan has provisions requiring the preparation of Community Energy Plans for Centres and Corridors and New Development Areas and consideration is to be given to adopting them in the new Employment Areas to support economic development. Staff will be reviewing the implications of this policy and the optimal means of achieving this objective.</p> <p>The City is planning to proceed with a District Energy Feasibility Study. Focusing on the Metropolitan Centre, it will also examine opportunities elsewhere in the City (e.g. the Vaughan Health Campus of Care and the Vaughan Enterprise Zone). Given that this also constitutes a potential business opportunity, staff will be preparing report to the Board of Directors of Vaughan Holdings Inc. for the purpose of obtaining funding for the study and direction to issue a Request for Proposals. The study is expected to take approximately 6 months to complete.</p> <p>The District Energy Feasibility study will contribute to the new Metropolitan Centre Official Plan/Official Plan Review, to ensure that all the requisite elements of a community energy plan are incorporated into the relevant OP.</p>
<p>1.2.3. Identify and work with partners to evaluate the community's greenhouse gas emissions (PCP Milestone 1)</p>	2011-2014	Deputy City Manager		<p>In advance of 2011 staff is in discussions with potential partners (e.g. TRCA, PowerStream and Enbridge). Energy consumption data is being assembled (i.e. gas, electricity). Will take place in first part of 2011-14 timeframe (2011-12)</p>
<p>1.2.4. Develop an emissions reductions plan (PCP Milestone 2) for, and in partnership with, the community.</p>	2011-2014	Deputy City Manager		

Objective 1.2: To promote reduction of greenhouse gas emissions in the City of Vaughan, continued

Actions	Time Frame	Responsibility Owner	Resources	Status
<p>1.2.5. Complete PCP Milestones 3, 4 and 5 of the Partners for Climate Protection Framework in partnership with the community, including:</p> <ul style="list-style-type: none"> • Developing a local action plan; • Implementing the local action plan or a set of activities; and • Monitoring progress and reporting results; evaluate and report annually on changes in energy use. 	2011-2014	Deputy City Manager		November 2009 Targeted for the latter part of the timeframe (2011-14)

Objective 1.3: To support enhanced standards of stormwater management at the City and work with others to care for Vaughan's watersheds

Actions	Time Frame	Responsibility Owner	Resources	Status
<p>1.3.1. Continue pilot programs to examine various technologies and techniques to improve winter road maintenance (e.g. salt reduction).</p>	Ongoing	Engineering and Public Works		November 2009 The Salt Management Plan annual review for 2009 was completed. The Plan was updated and submitted to Environment Canada. Alternative de-icers are still being used, and the anti-icing program will be expanded for the 2009 – 2010 winter season. The annual SMP review will be completed by June 2010. Given that the City is still growing, the annual salt use will continue to increase accordingly. Budget status: Funds for this type of work and reporting are budgeted through Operating Budget. For 2009, it is expected that the materials portion of that budget will be overspent due to severity of last winter.

1.3.2. *Through the development of the City's new Official Plan, and in partnership with the Toronto and Region Conservation Authority, ensure protection of remaining natural features and explore opportunities for habitat restoration in headwater areas, along riparian corridors, and around wetlands.*

Measures to Date	Ongoing	Planning	Engineering and Public Works & Community Services
<p>This action item is highly related to Action Item 2.2.4 regarding a natural heritage strategy for Vaughan.</p> <p>Part 1 of the City of Vaughan Natural Heritage Strategy document has been completed by AECOM. The natural heritage review is a subcontract to Urban Strategies Inc. as part of the OP Review process. Part 2 of the Natural Heritage Strategy will focus on environmental policies to support the natural heritage system and will be developed in the next few months in consultation with AECOM, Urban Strategies Inc. and the TRCA.</p> <p>Gaps remain in the natural heritage system in terms of setting clear biodiversity and ecosystem targets. As a result, ongoing studies will be required to fill the information gaps and develop a natural heritage system strategy with clear targets for habitat protection based on the long-term persistence of select species, wildlife communities and ecosystem functions. One aspect of these studies relates to headwater streams, riparian corridors and wetlands. Relating more directly to stormwater management, developing a "Sustainable Development Evaluation Framework" as described in Action Item 2.3.1 will include performance standards for stormwater management. These will be related to low impact development measures such as tree cover, bioswales, soil enhancement and green roofs.</p> <p>2010 Work Plan</p> <p>A work plan to address these issues in 2010 has yet to be developed. TRCA's <i>Evaluation, Classification and Management of Headwater Drainage Features: Interim Guidelines</i> (March 2009) will be used as the main resource to develop a work plan and budget. The watershed plans for the Humber River and Don River are also useful guidance documents to prepare a work plan and Terms of Reference for ongoing natural heritage studies. As there are known occurrences of the endangered redside dace in headwater streams of the Humber and Don Rivers, the Stewardship Grant program</p>			

of the Endangered Species Act (ESA) should also be reviewed in the event that a proposal can be submitted to offset a part of the cost of the study. Proposal deadlines for the stewardship grant of the ESA are in March of each year.

Budget Status

A budget will be determined once the appropriate studies have been identified and a detailed work plan has been developed.

1.3.3. *Continue to work with other partners (such as the Toronto and Region Conservation Authority) to implement policies and undertake activities that support high water quality in Vaughan's watersheds.*

Ongoing Engineering and Public Works Planning

Storm Water Management Retrofit Study completed in 2009 prioritizing existing and assumed storm water management facilities with the most potential for retrofit, thereby improving water quality to receiving watercourses. The first SWM facility retrofit project is anticipated to commence in 2010 subject to Capital Budget approval. A formal SWM Retrofit Program including funding alternatives and an implementation strategy is currently being studied by staff with the expectation of bringing a report forward on this matter in Q1 of 2010.

Erosion and Sediment Control Study

currently underway with TRCA and other partners. City has contributed funding in the amount of \$45,000 towards this initiative. Study includes testing of erosion and sediment control practices during construction, training of appropriate technical and inspection staff, and the development of field manuals. Anticipated completion date Q4 2010.

Municipal Storm Water Management Discussion Group Participation

Staff continues to attend quarterly meetings to discuss emerging issues, trends and developments in Storm Water Management practices with representation from many other municipalities within the GTA.

1.3.4. *Review and assess the Engineering Department design criteria and strategy for storm drainage and storm water management facilities to manage the anticipated impacts of climate change, be consistent with emerging legislation, and ensure protection from significant flooding (adapted from Vaughan Vision 2020)*

2009-2010

Engineering and Public Works

Black Creek Optimization Study Master Plan Class EA currently underway (in close cooperation with TRCA), anticipated completion date Q1 of 2010. The conclusions and recommendations of this study will allow the City to collect funds, protect for (via development applications) and ultimately construct various creek improvements (such as culvert replacements and in-stream erosion restoration works) to improve the level of flood protection within the Black Creek sub-watershed.

City-Wide Drainage and Storm Water Management Criteria Study completed in 2009. This study included a comparison of the City's current criteria and standards related to Storm Water Management against other neighboring municipalities. The study also included a high level investigation of various flood prone areas throughout the City with recommendations on next steps and potential improvement works. A more in-depth analysis is planned with the completion of Phase 2 of this study. Phase 2 has been approved in the 2009 Capital Budget. It is anticipated to commence in Q1 of 2010 and will be completed by Q1 of 2011.

Storm Drainage and Storm Water Management Master Plan Class EA Study will commence Q1 of 2010. Capital Budget for this study was approved in 2009. In support of the City's on-going Growth Management Strategy for 2031 and OP Review.

Development Engineering Staff is currently working with TRCA to protect for more stringent storm water management controls within new urban expansion areas such as Block 61 West (Nashville Heights) and Blocks 34 and 35 (Hwy 400 North Employment Lands OPA 637). This is required in advance of the TRCA completing updated Master Plan Studies for the Humber and Don River Watersheds.

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

<p>1.3.5. Complete a local water, wastewater and storm sewer assessment system model for the purpose of optimizing flows (adapted from Vaughan Vision 2020).</p>	<p>2009-2010</p>	<p>Engineering and Public Works</p>	<p>Water and Wastewater Master Plan Class EA Study will commence Q1 of 2010. Capital Budget for this study was approved in 2009. In support of the City's on-going Growth Management Strategy for 2031 and OP Review. Sewage Flow Monitoring Program. Currently approved in the 2006 Capital Budget. With funding from City-Wide DCs. Will commence and be completed in conjunction with Master Plan Update to assess residual capacity within the system, assess actual sewage generation rates and all overall optimization of the existing system. Start Q2 2010 – Anticipated end date Q2 2011. Inflow and Infiltration Reduction Program with York Region. Staff continues to work closely with Regional Infrastructure Planning and Operations Staff to identify and monitor strategic locations throughout the City where extraneous flows may be present within the sanitary sewer system. Once identified appropriate remedial measures may be undertaken to rectify the situation. Staff continues to develop and update in-house computer SewerCAD and WaterCAD Models of the City's existing sanitary sewer and water distribution systems. These models are used as tool for to monitor system capacity and to facilitate / justify capital improvement projects in support of new development applications.</p>
<p>1.3.6. Update the sanitary sewer by-law</p>	<p>2009-2010</p>	<p>Engineering and Public Works</p>	<p>No action taken to date. Review expected to start Q1 2010, with draft completed by Q4 2010. Budget status: No expenditures yet. Work to be done in-house, with Legal review.</p>
<p>1.3.7. Create a stormwater by-law</p>	<p>2009-2010</p>	<p>Engineering and Public Works</p>	<p>Review expected to start Q1 2010. Depending on complexity of the by-law and any associated charges, this work will most likely go beyond 2010. Budget status: No expenditures yet. However, a consultant may be required to determine how storm water charges are calculated.</p>

Objective 1.4: To ensure efficient and appropriate use of potable water in City facilities

Actions	Time Frame	Responsibility Owner	Responsibility Resources	Status
1.4.1. Evaluate the City's use of potable water by completing an audit on all City facilities (this could be part of energy audit as defined in Action 1.1.2.)	2009-2010	Community Services	Engineering and Public Works	November 2009 This will be completed in 2010 as part of the energy audit identified in Action 1.1.2
1.4.2. Develop a target for the City's efficient water use and develop an action plan to move towards the lower target, including: <ul style="list-style-type: none"> • Education programs for employees (including lessons learned from York's Water for Tomorrow program); • Evaluating the feasibility of grey water treatment and delivery in municipal buildings; • Making better use of captured water for lawn and garden watering; and • Infrastructure retrofits. 	2010-2011	Community Services	Engineering and Public Works	The water consumption target and action plan will be developed after the audit use audit has been completed.
1.4.3. Evaluate and report annually on changes in water use at the City.	2009-2011	Community Services	Engineering and Public Works	Annual reports will commence post-2010 after the completion of the audit.

Objective 1.5: To reduce the amount of waste generated in City owned facilities and procure sustainable products for the City's use

Actions	Time Frame	Responsibility Owner	Responsibility Resources	Status
1.5.1. Continue to recycle and reuse construction material using the LEED building criteria where possible. Costs would be built into future construction tenders under the direction of an overall procurement policy.	Ongoing	Community Services	Engineering and Public Works	November 2009 Has been applied in the construction of Fire Station 79, City Hall and the Fire Station 710.

Objective 1.5: To reduce the amount of waste generated in City owned facilities and procure sustainable products for the City's use, continued

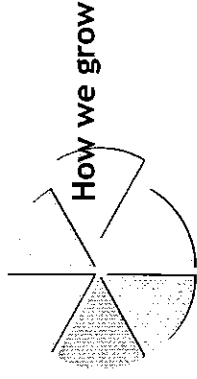
Actions	Time Frame	Responsibility Owner	Responsibility Resources	Status November 2009
<p>1.5.2. Calculate the amount of waste that the City of Vaughan's facilities generate annually by completing a waste audit.</p>	<p>2009-2010</p>	<p>Community Services</p>	<p>Engineering and Public Works</p>	<p>This exercise is currently underway, using 2009 as a benchmark, assessing total volume and the breakdown between garbage and recyclables.</p>
<p>1.5.3. Develop a waste management strategy for City facilities with a few smaller, but high profile initiatives such as:</p> <ul style="list-style-type: none"> • Promoting the six Rs (Refuse, Reduce, Reuse, Renew, Recycle, and Recover) in facilities through an education campaign; • Eliminating or reducing PET water bottles, plastic cutlery and Styrofoam in City facilities; and • Introducing three stream waste diversion in all municipal buildings and facilities. 	<p>Ongoing</p>	<p>Engineering and Public Works</p>	<p>Community Services & Human Resources</p>	<p>Under the Commissioner of Engineering & Public Works, a working group has been established involving senior staff from Parks, Planning, Building and Facilities and Public Works to review waste diversion in City buildings and parks etc. To date, an organics recovery program has been started in the cafeterias. The sale of bottled water has been banned in City buildings, with full implementation taking place when the new contracts with the food suppliers start in 2010. To go along with the ban, refillable water bottles were distributed to all City staff. Some 3 stream containers have been purchased for City facilities, and the education / advertising for them are being developed by Public Works staff. Support from HR will be provided as required. <u>Budget status:</u> In-house staff and existing operating budgets being used at this time. Future budget implications not currently identified.</p>
<p>1.5.4. Evaluate and report annually on the amount of waste generated and track progress in achieving the waste reduction target.</p>	<p>2011-2014</p>	<p>Community Services</p>	<p>Engineering and Public Works</p>	<p>Targeted for the latter part of the timeframe (2011-14)</p>
<p>1.5.5. Develop and implement a policy to purchase more sustainable products, including preferences for cleaning products with low VOCs (volatile organic compounds), recycled paper, reusable office supplies, office equipment, etc. Build on the work of other municipal governments (i.e., reference to Governments Incorporating Procurement Policies to Eliminate Refuse (GIPPER)) to create a "Made in Vaughan" solution.</p>	<p>2009-2010</p>	<p>Purchasing</p>	<p>All</p>	<p>Purchasing will be preparing a draft corporate policy. The anticipated time frame for its preparation is Q2 of 2010.</p>

Objective 1.6: To continue to reduce the amount of waste generated by Vaughan citizens, businesses and institutions

Actions	Time Frame	Responsibility Owner	Resources	Status November 2009
<p>1.6.1. Continue to work with the Ministry of the Environment to support the enforcement of regulations to encourage waste audits, waste reduction work plans and source separation programs for Industrial, Commercial and Institutional waste generators in Vaughan.</p>	<p>Ongoing</p>	<p>Engineering and Public Works</p>		<p>Public Works staff continues to meet with MOE staff regarding the above. Staff held a workshop for multi-residential building owners/management staff in the Fall of 2009. MOE staff was there to talk about building owners' requirements for waste diversion activities under existing legislation. Another workshop may be held in 2010 if required.</p>
<p>1.6.2. Through advocacy efforts and in partnership with the Region of York, aim for a 100% residential waste diversion target; this will be accomplished in accordance with the Greening Vaughan strategy and an evaluation of the potential for high rise residential waste collection.</p>	<p>2011-2014</p>	<p>Engineering and Public Works</p>		<p><u>Budget status:</u> In-house staff and resources used.</p> <p>Dongara waste pelletization facility is up and running and accepting all of Vaughan's mixed residential waste. The Region's new Community Environmental Centre opened in the summer of 2009, providing additional disposal and recovery opportunities for City residents and businesses.</p> <p>Curbside diversion rate is currently estimated at 68% for 2009%; however, actual numbers will not be available until Q1 2010.</p> <p><u>Budget status:</u> Collection costs budgeted through the Operating Budget. Program development, monitoring etc., are done through in-house staff and resources.</p>

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

Goal 2: To ensure sustainable development and redevelopment



Vaughan is committed to sustainable land use. Vaughan Tomorrow, our consolidated Growth Management Strategy - 2031, has a central focus on creating a cutting-edge Official Plan that will provide for increased land use densities, efficient public transit, considerations for employment lands and open space systems, as well as walkable, human scale neighbourhoods that include services, retail, and an attractive public realm. The completion of the City's New Official Plan is expected in 2010 and it will address all elements of effective, sustainable and successful city-building while managing projected growth over the next 25 years. The plan will guide the creation of the physical form that will reflect a "complete" community. The policies in the Official Plan, and the actions associated with this goal, will be strongly influenced by the Province's Places to Grow program to manage growth and development in Ontario through regional growth plans.

Objective 2.1: To achieve sustainable growth and development by completing and implementing Vaughan Tomorrow, the City's Consolidated Growth Management Strategy-2031, and by ensuring that the strategy is subject to periodic review and renewal

Actions

2.1.1. In accordance with the requirements of the Strategic Plan, Vaughan Vision 2020, complete and implement Vaughan Tomorrow, the City's Consolidated Growth Management Strategy - 2031. Such strategy will fulfill the requirements for an Integrated Community Sustainability Plan. The strategy will be prepared in accordance with the requirements of the Places to Grow plan and will be in conformity with the Region of York Official Plan. The Consolidated Growth Management Strategy will be composed of the following elements:

- Green Directions Vaughan, the City's first Community Sustainability and Environmental Master Plan;
- The new Official Plan;
- The Transportation Master Plan;
- Water and Sewer Master Plan;
- The Drainage and Stormwater Master Plan;
- Employment Sectors Strategy;
- The Fire and Rescue Services Master Plan;
- The Parks, Recreation, Facilities and Libraries Master Plan; and
- The Long Range Financial Plan.

Time Frame	Responsibility	Status
Ongoing	Owner City Manager's Office	November 2009
	Resources	Underway and on schedule. Green Directions was approved by Council on April 14, 2009. VFRS Master Plan Active Together Master Plan and Long Range Financial Plan are in place. Other Master Plans are underway and the draft Official Plan is scheduled for Q1 2009, with Council adoption targeted for Q2 2010.

Objective 2.1 To achieve sustainable growth and development by completing and implementing Vaughan Tomorrow, the City's Consolidated Growth Management Strategy-2031, and by ensuring that the strategy is subject to periodic review and renewal, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
2.1.2. Review the City's Growth Management Strategy at five-year intervals concurrent with the statutory five-year review of the Official Plan and such review shall be coordinated with the periodic review of the Strategic Plan.	2015-2020	City Manager's Office	All	November 2009 To commence in 2015
2.1.3. At the time of initiating the review referred to in 2.1.2, develop a comprehensive framework for reviewing the strategy. This will include the evaluation and updating where necessary, of the plans cited in 2.1.1.	2015-2020	City Manager's Office	All	Would provide the basis for the 2015 Growth Management Review.

Objective 2.2: To develop Vaughan as a City with maximum greenspace and an urban form that supports our expected population growth

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
2.2.1. Through the policies in the new Official Plan, create a Vaughan in 2031 that has more intensification with increased height and density and mixed use in thoughtfully developed nodes and along transit corridors.	Ongoing	Planning		November 2009
				<p><u>Measures to Date</u> Through the Official Plan Review process, a target of 45% intensification has been identified for the City of Vaughan, which is consistent with the Growth Plan for the Greater Golden Horseshoe. Urban Strategies Inc., the main consultants on the OP review process, also proposed a consistent set of land use designations and land use map for the City-wide OP. The draft land use map demonstrates increased height and density and mixed use in nodes and corridors.</p> <p><u>2010 Work Plan</u> The 2010 work plan follows the milestones for the OP Review process. <u>Budget Status</u> The budget for the OP Review process has been approved through to the end of 2010.</p>

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

<p>2.2.2. Undertake an Urban Forest Strategic Plan that will identify targets for the urban forest in the City and provide strategies for achieving it including planning, maintenance, species and planting recommendations.</p>	<p>2009-2010</p>	<p>Community Services</p>	<p>Planning</p>	<p>Parks and Forestry Operations plan on reporting to Committee of the Whole in May of 2010 on the Urban Forests Effects Model (UFORE) in relation to the City's Five Year Plan to Increase Tree Cover, which was considered at Environment Committee on June 30, 2009</p>
<p>2.2.3. Continue to develop a Parkland/Open Space Acquisition Strategy</p>	<p>2011-2014</p>	<p>Community Services</p>	<p>Legal & Planning</p>	<p>Beyond the 2009-10 horizon.</p>

Objective 2.2: To develop Vaughan as a City with maximum greenspace and an urban form that supports our expected population growth, continued

Actions	Time Frame	Responsibility Owner	Status November 2009
<p>2.2.4. Develop a comprehensive Natural Heritage Strategy that examines the City's natural capital and diversity and how best to enhance and connect it. As part of this action:</p> <ul style="list-style-type: none"> • Develop an inventory of Vaughan's natural heritage, and identify opportunities for habitat restoration; • Ensure that policies in the City's new Official Plan protect all ecological features and functions as per current provincial and regional policies, and also include consideration for locally significant natural features and functions • Develop policies to create opportunities for near urban agriculture within Vaughan's rural areas, through policies described in the City's new Official Plan 	<p>Ongoing</p>	<p>Planning</p>	<p><u>Measures to Date</u> Part 1 of the City of Vaughan Natural Heritage Strategy document has been completed by AECOM. The natural heritage review is a sub-contract to Urban Strategies Inc. as part of the OP Review process. Part 2 of the Natural Heritage Strategy will focus on environmental policies to support the natural heritage system and will be developed in the next few months in consultation with AECOM, Urban Strategies Inc. and the TRCA. Gaps remain in the natural heritage system in terms of setting clear biodiversity and ecosystem targets. As a result, ongoing studies will be required to fill the information gaps and develop a natural heritage system strategy with clear targets for habitat protection based on the long-term persistence of select species, wildlife communities and ecosystem functions. <u>2010 Work Plan</u> Additional studies will likely be identified as an outcome of the current work. MNR's Significant Wildlife Habitat Technical Guide and revised Natural Heritage Reference Manual, together with York Region information regarding the Regional Greenlands System, will be used as the main resources to develop a work plan and budget. The watershed plans for the Humber</p>

River and Don River are also useful guidance documents to prepare a work plan and Terms of Reference for ongoing natural heritage studies. **Budget Status**
A Capital Budget request for 2011 will be determined once a detailed work plan has been developed.

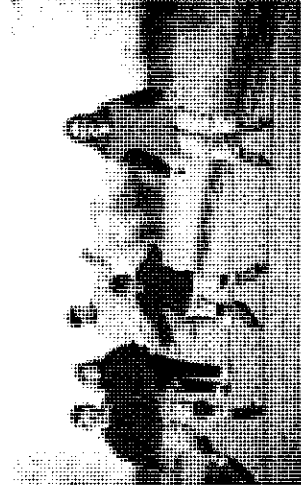
2.2.5. Implement initiatives to reduce run-off in park facilities, trail systems, and selected City of Vaughan parking facilities; this may include developing permeable paving standards, created wetlands, bio-swales and/or polishing areas.

2011-2014

Community Services

Engineering and Public Works

Beyond the 2009-10 horizon



Objective 2.3: To create a City with sustainable built form

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
<p>2.3.1. Develop sustainable development evaluation criteria, supported by provisions in Bill 51 and Places to Grow, that can be applied from neighbourhoods to sites and include these five areas: (1) development form/sustainable sites; (2) resource efficiency; (3) transportation; (4) public realm ; and (5) greenspace and wildlife.</p>	Ongoing	Planning	All	<p>November 2009</p> <p><u>Measures to Date</u> A Report was submitted to the February 24, 2009 meeting of the Environment Committee (Report No. 2, Item #2, Measuring Environmental Sustainability Performance of Development) for Council endorsement to seek external funds for this action item. The work plan and budget submitted with the report to Council had a focus on the development of the sustainability performance measures. A Letter of Intent was submitted to the Max Bell Foundation in April 2009 with partners (Clean Air Partnership, Ontario Nature and the TRCA). The Max Bell Foundation is still considering the Letter of Intent and has not provided a formal reply. Since that time, staff has developed most of the content of the sustainable development evaluation framework and performance measures, which cross-reference to existing third-party certification systems, such as LEED, Green Globes and EnerQuality's GreenHouse labels. As a result, the work plan and budget have been modified to focus more on "field testing" the sustainable development evaluation framework in workshop settings with City staff. This would not only allow for a refinement of the sustainability framework, but also offer training for City staff in the review of development applications using the sustainable development evaluation framework. Staff is pursuing a proposal to FCM in collaboration with other municipalities to conduct the "field testing". While the nature of such collaboration makes a proposal a challenge, it is worth pursuing until all options have been exhausted. There have also been discussions among consultants involved in OP Review process that sustainability guidelines may be</p>

appropriate as an appendix to the new City-wide OP.

2010 Work Plan

The work plan below reflects the latest revision of the milestones and deliverables related to this action item. This work plan is being used to gauge interest in pursuing a proposal to FCM with neighbouring municipalities.

1. Review and Modify Framework (25% of time and/or effort and/or budget)
2. Field Testing and Stakeholder Consultations (50% of time and/or effort and/or budget)
3. Peer Review (5% of time and/or effort and/or budget)
4. Final Report (20% of time and/or effort and/or budget)

Budget Status

A capital project entitled "Measuring Environmental Sustainability Performance of Development" in the amount of \$80,000 was forwarded to the Budget Committee to be included for consideration in the 2009 Capital Budget and funded from external funding sources. No external sources of funding have yet been secured to implement the action item, although staff is still pursuing various options, including a proposal to FCM. The revised budget based on the work plan above is as follows:

Task 1	\$20,000
Task 2	\$57,000
Task 3	\$15,000
Task 4	\$20,000
TOTAL	\$112,000

A revised budget may be submitted to Budget Committee for consideration in May or June of 2010 once additional external funding options have been explored and staff resources become available as the OP Review process nears completion.

Development Engineering Staff are working with Policy Planning Staff to look at feasible policies and programs around the implementation of sustainable technologies that promote groundwater recharge and/or a reduction in storm drainage flows. Such low impact development measures may include

2.3.2. *Redefine the maximum amount of impermeable area permitted on a building site. Work with developers to create alternative surfaces with the objective of increasing overall site permeability.*

Ongoing
Planning & Engineering and Public Works

green roofs, infiltration trenches within public right-of-ways, porous pavement materials and grey water reuse.

It is anticipated these initiatives will be summarized in a report to Committee in Q1 of 2010 together with links to other related TRCA initiatives as identified in the TRCA's recently released Don and Humber River Watershed Plan advisory documents.

Measures to Date

Ongoing

2.3.3. *Through the policies to be developed in the new Official Plan, ensure that a mix of housing types are provided in Vaughan and that affordability is a consideration in planning.*

The new Official Plan provides for 45% of future housing needs to be addressed via intensification, most of which can be expected to take the form of medium and high density residential units, some in mixed use form with retail at grade. Many of these units will be more affordable than typical low density units. Most of the prime intensification sites are located along rapid transit corridors, contributing to affordability objectives by reducing car dependency. The greenfield areas now under development in the Vellore and Carrville communities already include a mix of low and medium density housing types, since the overall housing density objectives of OPA 600 (16 to 18 units per hectare) would satisfy the density objectives of the Provincial Growth Plan. The mix will be further broadened with the construction of high density development particularly in the Carrville District Centre. Future development in urban expansion areas will also have a broad mix of types, with a required population/jobs density of 50 persons/hectare. The residential density objectives can only be achieved on the ground by providing a significant amount of medium and high density housing in the overall mix.

2010 Work Plan

The existing work plan for the approved OP Review process will address this action item. Further revision of background reports for the new City-wide OP should also identify a target mix of dwelling unit types.

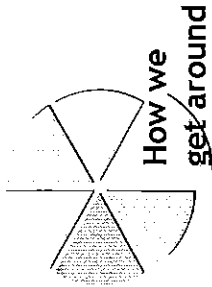
* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

<p>Budget Status The budget for the City-wide OP is approved. Additional studies and budget to address the issue of affordable housing may be required in 2011.</p>		
<p>Measures to Date A review of existing Official Plan policies and zoning by-laws pertaining to energy and water conservation has not been started. The new City-wide Official Plan will integrate environmental sustainability principles and objectives into policies.</p>	<p>Planning</p>	
<p>This action item is related to Action Item 2.3.1 regarding the development of a "Sustainable Development Evaluation Framework".</p>	<p>Ongoing (Zoning by-laws to be initiated after the completion of the Official Plan)</p>	<p>2.3.4. Conduct a review to ensure that Official Plan policies and zoning by-laws do not unreasonably restrict the application of building technologies and uses that will promote conservation measures and/or the production and distribution of energy.</p>
<p>In addition to OP policies and zoning by-laws, engineering standards will need to be reviewed to ensure that they anticipate and do not limit the application of measures such as district energy, waste water heat recovery, green roofs and rainwater harvesting, among other environmental sustainable technologies.</p>		
<p>2010 Work Plan Policies and zoning by-laws will need to be reviewed as part of the effort to implement a sustainable development evaluation framework (see Action Item 2.3.1). This effort may start by the third quarter of the 2010 calendar year.</p>		
<p>Budget Status Staff resources are likely sufficient to complete this action item in conjunction with Action Item 2.3.1.</p>		

Objective 2.3: To create a City with sustainable built form, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
<p>2.3.5. <i>Based on the lessons learned from the implementation of Energy Star standards for new low density residential homes, continue to apply energy efficient building standard options for new developments in the City, including other building forms (i.e., townhouses, condominiums) and building standards (i.e., EnerGuide, LEED, etc.).</i></p>	2011-2014	Planning		<p>November 2009</p> <p><u>Measures to Date</u> This action item is largely related to Action Item 2.3.1. Staff in Building Standards, Economic Development and Policy Planning have been working with Natural Resources Canada (NRCan) to facilitate a series of workshops on energy efficient building. The workshops will be delivered by EnerQuality at the Kortright Centre. In our last correspondence, NRCan was signing an agreement with EnerQuality to deliver the program and workshops. <u>2010 Work Plan</u> See the work plan for Action Item 2.3.1. <u>Budget Status</u> Staff resources are likely sufficient to complete this action item in conjunction with Action Item 2.3.1.</p>
<p>2.3.6. Develop and implement a Vaughan green building policy, which will ensure that all new and existing municipal buildings perform to the highest environmental standards that are practical taking into account such considerations as energy efficiency, greenhouse gas emissions, water consumption, waste management, site design, landscaping, etc.</p>	2009-2011	Community Services	Engineering and Public Works	<p>Staff are using as an interim baseline, the approach identified in the April 14, 2008 report to Council, "City of Vaughan Green Building Policy", outlining the use of LEED standards or appropriate alternatives as determined by the situation. Council referred this to staff for a follow-up report. It is understood that a number of changes will be occurring in the LEED program and new certification programs and criteria will emerge. Staff is working to meld and reconcile the various standards to create a policy that can accommodate the range of building types and situations (e.g. new construction, renovation/retrofit and heritage) the City faces. A report on the Green Building Policy is targeted for Q1 of 2010.</p>

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City



Goal 3: To ensure that Vaughan is a city that is easy to get around with a low environmental impact

Vaughan is committed to making choices that will reduce automobile dependency, traffic congestion and transportation-related greenhouse gas emissions. Vaughan, as an active partner with the Region of York, surrounding municipalities, the Province and the Federal government, commits to supporting the development of a public transit network that is responsive to our population's needs. As well, Vaughan promotes active transportation options for its employees and citizens such as walking and biking. In addition to reducing greenhouse gas emissions and reducing congestion, active transportation has corollary health benefits and enhances social cohesion. The actions associated with this goal will be influenced by the policies in the City's new Official Plan, the Active Together Master Plan, new provincial accessibility policies, the forthcoming Transportation Master Plan from York Region and the City of Vaughan and the Metrolinx Regional Transportation Plan ("The Big Move").

Objective 3.1: To develop and sustain a network of sidewalks, paths and trails that supports all modes of non-vehicular transportation

Actions	Time Frame	Responsibility	Status
3.1.1. Develop an implementation plan for the initiatives described in the City's Pedestrian and Bicycle Master Plan through a phased and budgeted implementation program.	Ongoing	Owner Engineering and Public Works & Community Services	November 2009 The Pedestrian and Bicycle Master Plan is being implemented jointly by the Commissions of Community Services, Finance & Corporate Services, Planning, and Engineering & Public Works. The Development/Transportation Engineering Department is taking the lead on implementing the components of the Master Plan that are located on existing or proposed roadways and the development of the applicable standards and route identification and signage. The Development/Transportation Engineering Department has made application for funding assistance through the Pedestrian and Cycling Municipal Partnership Program developed by the Region of York. The Region developed the Program to encourage walking and cycling by accelerating the implementation of

pedestrian and cycling infrastructure throughout York Region. This capital cost-sharing program is administered and funded by the York Region. Up to 50% of the construction cost of a project under this program will be contributed by the Region. The program was initiated in 2008 (2009 construction) and the Development/Transportation Engineering Department was successful in getting approval in the amount of about \$25,000.00 to implement the first phase of the bike route signage. The submission for 2010 projects was made in April 2009 and includes the cost associated with the installation of the second phase of the bike route signage and a multi-use pathway on the south side of Teston Road between Keele Street and Jane Street. On October 22, 2009 York Regional Council approved the City of Vaughan 2010 projects. The Development/Transportation Engineering Department is seeking approval for the City's share of the phase 1 & 2 projects through the 2010 Capital Budget. The Engineering Services Department is currently undertaking the design works for the implementation of the above-noted multi-use pathway. This pathway will be implemented in 2010. The phase 1 implementation of the bike route signage is scheduled to commence in early Spring 2010.

A multi-year implementation program will be developed once staff has a better understanding of the phasing of the Region's program and available funding.

Measures to Date
The Transportation Master Plan will review Transportation Demand Management measures.

Policies in the new City-wide Official Plan will address the need to encourage active transportation and transit use. A focus on intensification and mixed use developments in corridors and nodes is one important factor in encouraging active transportation. Public squares is a specific project of the Policy Planning and Parks Development teams.

3.1.2. *Through policies to be described in the new Official Plan, develop a more walkable and transit-friendly community with adequate public spaces and a finer grain network of streets.*

Ongoing

Planning

Engineering
and Public
Works

Sustainability measures related to mobility, including infrastructure such as intersection densities, neighbourhood connections and implementation of pedestrian and bicycle paths are part of the Sustainable Development Evaluation Framework described in Action Item 2.3.1. Planning and Engineering staff are addressing an outstanding Council report regarding Transportation Demand Management at the site plan scale. This Report to Council will identify criteria and measures to implement immediately in the review of Site Plan applications. Given the above-noted efforts, it is anticipated that it will be implemented in late 2010 or 2011.

2010 Work Plan

Work plans related to the OP Review process and Transportation Master Plan do not need to be modified to address this action item.

The Report to Council on TDM measures is intended to be presented in the spring of 2010, once relevant staff from Transportation/Development Engineering, Development Planning (Urban Design) and Policy Planning have agreed on the appropriate TDM measures that can be implemented in advance of the new City-wide Official Plan.

Budget Status

The budget is approved for the OP Review process and Transportation Master Plan.

Objective 3.2: To develop and sustain a network of roads that supports efficient and accessible public and private transit

Actions	Time Frame	Responsibility Owner Resources	Status November 2009
<p>3.2.1. <i>Continue to work with York Region Transit to develop appropriate local routes to serve users' needs.</i></p>	Ongoing	<p>Engineering and Public Works</p>	<p>The Development/Transportation Engineering Department as part of the development/ Block Plan process encourages development of a transportation network of continuous, primary roads to efficiently accommodate transit routes with a goal of attracting at least 15% of the peak hour commuters by the completion of the development of the new communities, with a continued growth in transit use in the long term. As part of the Transportation Study for Block Plan, a Transportation Management Plan is prepared, identifying proposed transit routes within the Block. The proposed transit routes are identified using City's current policies where at least 80% of the residences and majority of jobs and other activities should be within comfortable walking distance of transit stops (400 metres). York Region Transit (YRT) staff reviews and approves the proposed transit routes in coordination with City staff. Transit route implementation within each block is coordinated with development and through annual planning cycle whereby YRT staff prepares a transit service plan for the upcoming year. Criteria for the plan are based on an evaluation of current services and overall Region Transit objectives. City staff from various departments participates through regular communications with the YRT staff on the preparation of a transit service plan.</p> <p>Currently, the YRT is preparing new Five-Year Plan (2010 – 2015) that will incorporate the key principles of:</p> <ul style="list-style-type: none"> • Planning for easy, convenient and direct connections to future and

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

- existing rapid transit services (i.e. proposed subway and VivaNext initiatives);
- Maximizing potential for success with new service strategies, with a view to making significant gains in cost recovery and ridership levels;
- Developing decision making tools based on a sound Business Intelligence approach.

A new Five-Year Plan is an update to the current Five-Year Plan (2006 – 2010) and follow-up to YRT/MVA's annual service plan for 2009.

<p>3.2.2. Continue to support the maintenance, repair and renewal of the existing road network.</p>	<p>Ongoing</p>	<p>Engineering and Public Works</p>	<p>Finance</p>	<p>The maintenance of roads is an ongoing matter with Public Works. Crack routing and sealing, pothole repairs, curb and sidewalk repair, cold mix patching, grading and gravelling rural roads, are all examples of the maintenance work done by Public Works to ensure the roads are being maintained. Winter maintenance is also considered road maintenance. Similar actions and activities are planned for 2010. Budget status: 2009 budget may be overspent due to a number of factors including, severity of the past winter, significant clean-up costs for the tornado, slope failure repair works etc.</p>
<p>3.2.3. Continue on-going comprehensive review and update of engineering standards and design criteria including lighting, sidewalks, road cross-sections, etc. consistent with the intent of other City policies including the new Official Plan.</p>	<p>Ongoing</p>	<p>Engineering and Public Works</p>	<p>Engineering and Public Works & Legal</p>	<p>The Terms of Reference for the Request for Proposal (RFP) in the Review & Update of Engineering Standards and Design Criteria have been drafted. They are to be reviewed by the Department before releasing them in a RFP. The Terms of Reference is scheduled to be completed in 2009. The complete review and update will be completed in 2010. These works have been budgeted under 2009 Capital Budget.</p>
<p>3.2.4. Conduct the City-wide Parking Standards Review (as per Vaughan Vision 2020).</p>	<p>2009-2010</p>	<p>Planning</p>	<p>Engineering and Public Works & Legal</p>	<p>Measures to Date The report on the City-wide Parking Standards Review is currently in draft form and under review in consultation with Legal. The study requires additional a series of meetings and edits to be completed to ensure consistency with the work being completed for the New Official Plan.</p>

2010 Work Plan

The study and proposed Zoning By-Law and Urban Design Guidelines will be brought forward to Council in the winter of 2010.

Budget Status

The budget for the Parking Standards Review is approved.

Objective 3.3: Reduce single occupant vehicle (SOV) trips by supporting active transportation, car pooling and public transit

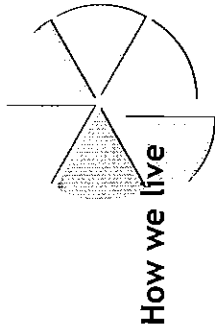
Actions	Time Frame	Responsibility Owner	Status November 2009
<p>3.3.1. <i>Develop and implement an Employee Trip Reduction/active transportation strategy for City staff. This may include such initiatives as:</i></p> <ul style="list-style-type: none"> • Increasing incentives and opportunities for car pooling; • Participating in public transit promotions with incentives; and • Exploring work arrangements to reduce SOV travel such as flex time and tele-work options for employees. 	Ongoing	<p>Deputy City Manager Engineering and Public Works & Finance & Planning & Human Resources</p>	<p>Staff continues to work with Smart Commute – North Toronto, Vaughan (NTV) to provide a comprehensive employee trip reduction program for City of Vaughan employees. Smart Commute NTV will report to Environment Committee on progress and updated work plan and new initiatives in Q1 or Q2 of each year. Current program includes online ride-matching service, emergency ride home program, yearly events and education campaigns. HR will continue to support initiatives as required.</p>

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

Objective 3.3: Reduce single occupant vehicle (SOV) trips by supporting active transportation, car pooling and public transit, continue

Actions	Time Frame	Responsibility Owner	Resources	Status November 2009
<p>3.3.2. Work with partners to develop and implement a trip reduction/active transportation strategy for the community (including businesses and institutions). This may include such transportation demand management initiatives as:</p> <ul style="list-style-type: none"> • Working with transit authorities to ensure bicycle parking and supportive infrastructure (e.g. GO Transit, VIVA YRT); • Promoting public transit with incentives, creative advertising and a focus on youth; • Ensuring mobility options for those unable to use cars (elderly, those with physical limitations, etc.); • Working with the Region of York on accessibility issues related to the Ontarians with Disabilities Act; • Supporting regional initiatives such as high occupancy vehicle (HOV) lane expansions; • A pilot project with Active & Safe Routes to School; and • Establishing City-wide parking standards to promote alternatives to SOV trips. 	Ongoing	Engineering and Public Works	All	<p>The Development/Transportation Engineering Department is currently undertaking the new Transportation Master Plan (TMP) as part of the new Official Plan process. The TMP will include transportation demand management initiatives to support a trip reduction of the peak hour commuters. Supporting policies will be developed and included in the new Official Plan and the TMP.</p> <p>The TMP is scheduled to be completed by Spring/Summer 2010.</p> <p><u>Budget Status:</u> In-house resources and external consultant working within approved budget.</p>

This action may be supported by a series of policies to be developed in the new Official Plan, the upcoming Transportation Master Plan, and the Employee Trip Reduction plan under development at the City.



Goal 4: To create a vibrant community where citizens, business and visitors thrive

As described in our Strategic Plan, Vaughan Vision 2020, our city will continue to be a community of choice that promotes diversity, innovation and opportunity for all citizens, fostering a vibrant community life that is inclusive, progressive, environmentally responsible and sustainable. This vision for Vaughan was confirmed through the Vaughan Tomorrow Visioning sessions for the new Official Plan and Green Directions. Citizens, staff and Council are clear that they want Vaughan, now and in 2031, to be a complete community where citizens, businesses and visitors thrive. This goal addresses the social, cultural and economic aspects of a sustainable community. Many of the actions suggested in the goal are ongoing and will be brought to fruition through existing City plans such as Vaughan Vision 2020, the Active Together Master Plan, and the new Official Plan.

Objective 4.1: To foster a city with strong social cohesion, an engaging arts scene, and a clear sense of its culture and heritage

Actions	Time Frame	Responsibility Owner	Resources	Status
4.1.1. <i>Develop an implementation plan for the initiatives described in the City's Active Together Master Plan through a phased and budgeted program.</i>	Ongoing	Community Services	Planning	November 2009 In 2009 the Active Together Physical Activity Strategy and the Youth Strategy were both approved and launched and the RecAssist program was approved in support of Active Together. Staff will continue to work on developing actions for all approved items.
4.1.2. <i>Develop a strategy to increase support for and promotion of the arts and culture in the community (from Vaughan Vision 2020).</i>	Ongoing	Community Services	Community Services	Preparation of the Creative Together Cultural Plan is now underway. Many new arts programs and initiatives have been launched including art in community centres, the RAVE Awards, the Art of Diversity Competition, Vaughan in Focus: Photography Contest, expanding programming at City Playhouse, Exhibition and Art Studio Space Rental Program and Vaughan of a Kind Art Sale. Recreation and Culture plans on reporting on February 2, 2010 to Committee of the Whole on key initiatives.

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

4.1.3. *As planned through the Official Plan update, develop maps of archeological sites, cultural landscapes and built heritage resources; build on Vaughan's unique assets by developing policies to preserve and promote these features.*

Ongoing

Planning
&
Community
Services

Measures to Date
Jointly, in conjunction with the OP Review process, OP policies and mapping/resource information is being developed for built heritage preservation, cultural heritage landscape preservation, archaeological resources and cultural policies. These studies will be completed by the first quarter of 2010.
A work program item for the Policy Planning department is to undertake a study for a Village of Maple Development Framework. This involves a review of current developments, consideration of the policy framework (Official Plan, Heritage District etc.) and sites with the potential to redevelop with a view to establishing a coordinated contextual and connected approach to future development. A Zoning By-law for the Village should be developed as recommended in the Heritage Conservation District Study and Plan.
2010 Work Plan
The archaeological and built heritage studies will be completed in 2010 according to the approved work plan.
A Terms of Reference for undertaking a study and Zoning By-law for the Village of Maple Development Framework will be prepared in 2010.
Budget Status
Staff resources will need to be available along with funding for consultants for some of the components to undertake a study and Zoning By-law for the Village of Maple Development Framework. A capital budget request will be determined once a work plan has been developed.

Objective 4.1: To foster a city with strong social cohesion, an engaging arts scene, and a clear sense of its culture and heritage, continued

Actions	Time Frame	Responsibility Owner	Status
<p>4.1.4. Through creative urban design, as to be described in the new Official Plan, enhance social cohesion by creating more (1) common indoor and outdoor public spaces; (2) public art; (3) parks and open space; and (4) central, accessible hubs for arts, culture, and recreation.</p>	Ongoing	Planning & Community Services	<p>November 2009</p> <p>OP draft policies for public art are targeted for completion in Q4/09. The Creative Together cultural plan will also look at establishing cultural hubs, and indoor and outdoor public art spaces.</p> <p><u>Measures to Date</u> The Public Squares initiative was presented to Working Session of Council outlining the history of public squares. The presentation described the anatomy of public squares and case studies in Ontario where public squares served as anchors to the revitalization of urban districts, promoted intensification and improved the quality of life. Specific policy planning measures are being developed that will be incorporated into the new Official Plan, including designated intensification areas and possible new definitions of parkland dedication. 2010 Work Plan</p> <p>The Public Squares initiative is largely an internal project coordinated with the OP Review and, hence, the work plan follows the appropriate milestones of the OP Review process.</p> <p><u>Budget Status</u> Future work on the Public Squares initiative in 2010 will not require additional funds to the OP Review process.</p>
<p>4.1.5. Provide access to, and information about, the City's services at community centres.</p>	Ongoing	Community Services	<p>City of Vaughan Information Boards have been installed at all community centres for job postings, meeting notices etc. Implemented a multi-use initiative that includes the selling of blue and green bins at designated centres.</p>

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

Objective 4.1: To foster a city with strong social cohesion, an engaging arts scene, and a clear sense of its culture and heritage, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
4.1.6. Provide more partnership opportunities for existing non-profit and volunteer groups to meet the community's social, cultural and recreational needs.	Ongoing	Community Services		November 2009 Community Service Organization Policy - Creation of new partnerships is on-going. Examples include: The Welcome Centre, Fuerza Latina, York Support Services, VITA Community Living, Elspeth Heyworth, Social Services of York Region and the Vaughan Health Care Centre
4.1.7. Develop a civic engagement strategy to help citizens (including youth and newcomers) become aware of, and participate in, municipal processes and community volunteer opportunities (related to the Diversity Strategy in Vaughan Vision 2020).	Ongoing	City Manager's Office		Preparation of a civic engagement strategy is now underway. On November 16, 2009 a report went to the Strategic Planning Committee on the use of social media to enhance public engagement. This is to be addressed by a social media staff working committee, which will report back to the Strategic Planning Committee in Q1 of 2010. The Equity and Diversity Committee is expected to consider a working paper on a Diversity Strategy at its meeting in January, 2010, leading to later consideration by SMT and Council in Q1 of 2010.
4.1.8. Provide continued support for the development of a future hospital for Vaughan and continue to work with other levels of government and the Vaughan Health Campus of Care to provide comprehensive and integrated health care to citizens (from Vaughan Vision 2020).	Ongoing	City Manager's Office		Since the adoption of Green Directions, the City has committed \$80 million to the acquisition and development of the Vaughan Health Campus of Care. (N.W. Corner of Jane-Major Mackenzie). The City is also conducting a land use (official plan) study for the site to support a campus of care that is sustainable and functional, featuring high quality urban design and complementary and supportive land uses.
4.1.9. Support outdoor recreation activities that engage citizens and visitors in our natural and green spaces as described in Vaughan's Active Together Master Plan.	Ongoing	Community Services		Camp programs such as ECO-kids, ORADACA (Hummingbirds, Orioles, Hawks Falcons), Zero Gravity Skateboarding (10-13), Triathlon, Soccer Spectacular, Youth Sport Experience Golf Camp and Camp Corral are utilized to support outdoor recreational activities in our natural and green spaces.

Objective 4.1: To foster a city with strong social cohesion, an engaging arts scene, and a clear sense of its culture and heritage, continued

Actions	Time Frame	Responsibility Owner	Resources	Status
4.1.10. Develop accessible service standards as part of compliance with the Accessibility for Ontarians with Disabilities Act, 2005.	2009-2010	Community Services	All	November 2009 Customer Service Standards were approved in May 2009 and training of all staff is underway.

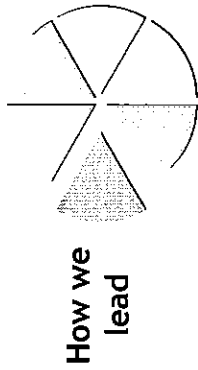
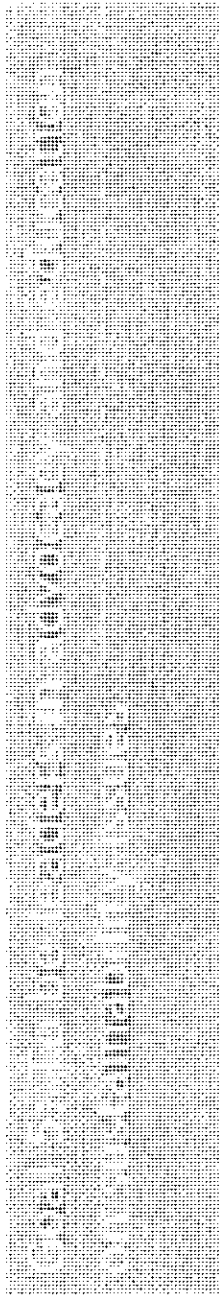
Objective 4.2: Ensure that the City of Vaughan attracts businesses and investment that will result in well-paying jobs for Vaughan citizens, a sustainable tax base and continuing prosperity into the 21st Century

Actions	Time Frame	Responsibility Owner	Resources	Status
4.2.1. Complete the Employment Sectors Strategy Study as part of the Vaughan Tomorrow program and implement its recommendations through the adoption of a new Official Plan.	Ongoing	City Manager's Office (Econ. Dev't.)	Planning	November 2009 Phase 4 of the study is now underway. Completion projected for January 2010. Draft study expected in December of 2009.
4.2.2. Revise and update the City's Economic Development Strategy (Vaughan Vision 2020) taking into consideration the results of the Employment Sector Strategy Study.	2009-2010	City Manager's Office (Econ. Dev't.)		Pending ARR approval – 2010 budget. Projected to start in February 2010 with completion in June 2010.

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

Objective 4.3: To encourage the establishment of green businesses and sustainable business practices

Actions	Time Frame	Responsibility Owner Resources	Status
4.3.1. Develop a business attraction and retention strategy to encourage environmentally-friendly or progressive businesses to set up in Vaughan (with clear definitions, and through the update to the Economic Development Strategy).	2009-2010	City Manager's Office (Econ. Dev't.)	November 2009 To be undertaken through the preparation of the Economic Development Strategy
4.3.2. Undertake an eco-industrial park feasibility study.	2009-2010	City Manager's Office (Econ. Dev't.)	Awaiting Secondary Plan and OP work regarding Employment Lands – specifically the Vaughan Enterprise Zone.
4.3.3. Investigate opportunities for farmers' markets at civic facilities to establish support for urban and near urban agriculture.	2011-2014	City Manager's Office (Econ. Dev't.)	To be undertaken through the preparation of the Economic Development Strategy – June 2010.



Vaughan is committed to providing leadership by implementing sustainable best practices in its own municipal operations and through its regulatory functions. In addition to internal leadership, Vaughan is committed to sharing its successes with the community and learning from others. Vaughan has an active role to play in advocating for the needs of our community. In addition, community members, of all ages, are encouraged to participate actively in civic affairs and to contribute to the enhancement of our community. Vaughan is committed to facilitating opportunities for citizens to come together to strengthen our City.

Objective 5.1: To share sustainable best practices and ideas between and among municipal staff and the community

Actions	Time Frame	Responsibility	Status
5.1.1. Continue to seek the advice and opinion of our citizens, businesses and partners on significant policies, plans and programs (for example, builder and developer involvement in the drafting of sustainable development criteria.)	Ongoing	Owner Deputy City Manager	November 2009 Will be working in conjunction with Policy Planning in the development of evaluation criteria concurrently with the official plan review. This will entail consultation with stakeholder groups throughout 2010 and beyond. Specific outreach programs will be developed. Consideration will also be given to establishing a general advisory committee (6.1.3) and Sustainability Forum (5.2.6) to support outreach.
5.1.2. Work with the Region of York to support residential water reduction activities through the Water for Tomorrow program, encouraging downsput disconnections and the potential sale of rain barrels.	Ongoing	Engineering and Public Works	A downsput disconnection education program was developed and advertised to the public in print and electronic formats. Public Works also arranged with York Region to hold a rain barrel sale in the City this past Spring. Staff will again request YR to hold a rain barrel sale in Vaughan in 2010. Budget status: Work was done by in-house staff and resources.

* Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City

5.1.3.	<i>Use the Vaughan Civic Centre and other sustainably constructed facilities as learning centres by providing tours about sustainable construction and energy conservation.</i>	Ongoing	Deputy City Manager	Community Services	Plan to report back to Environment Committee in Q1 – 2010 on an appropriate communications plan and education strategy to highlight the sustainability features of the newly constructed Civic Centre and other green buildings in Vaughan. Staff from Community Services and Buildings and Facilities, along with staff from the City Manager's office will also provide an estimated cost for materials and how this initiative could best be connected to an education program for City staff (5.1.5) and an information program (including 5.1.6) and tours for schools.
5.1.4	Include a climate change planning strategy for all City master plans. The strategy shall assess vulnerability to climate change and develop plans for mitigating impacts and remedial responses.	Ongoing	City Manager's Office	All	Climate change is assumed to be a baseline condition in all of the City's studies. Plans will provide for either measures to limit the advance of climate change (e.g. controlling greenhouse gas emissions) or adaptive techniques to minimize impacts like accommodating higher peaking stormwater flows and conserving water. (e.g. see Actions under Objective 1.3)
5.1.5.	Develop an environmental education strategy to familiarize staff with the provisions of Green Directions expanding into an on-going education program.	2009-2010	Deputy City Manager	All	Plan to present an employee education strategy to familiarize staff with Green Directions to Environment Committee Q1 – 2010. In advance of reporting staff will investigate methods used by other municipalities. When reporting on the development of a comprehensive Green Directions employee education strategy and supporting materials, staff will also provide an estimate of the additional budget required for initial implementation as well as the cost of an ongoing program, including orientation for new hires. It is recommended that this program be coordinated with the new facility staff education program (5.1.3) with an estimated budget implication of approximately \$10,000 to \$12,000 in the first year.

5.1.6. Develop an information kit and provide copies of Green Directions for use in Vaughan's schools.

2009-2010
Deputy City Manager
Corporate Communications

Plan to report back to the Environment Committee in Q2 – 2010 on the appropriate content for a school information kit, which includes the Green Directions brochure. In advance of the report Staff will investigate with the school boards the appropriate content for the kit, the target audience and the level of distribution. In addition, the methods used by other public agencies will be examined to obtain input on their approaches to school outreach. When reporting, staff will also provide an estimate of the printing costs for the number of kits necessary to serve the intended audience; and in addition, the cost of producing an on-line version will be assessed.
Expect to report in 2011 on preparing a comprehensive plan. Will proceed with individual initiatives in the interim.

5.1.7. Develop an environmental education strategy for **businesses** and **citizens**. This strategy will highlight the steps that citizens and businesses can take to create a more sustainable Vaughan. This might include examples from the city, other businesses, schools boards or other communities around the world. This strategy could also focus on highlighting the ongoing work at the City on these issues. This might include calculating the ecological footprint of an average Vaughan citizen or business.

2011-2014
Deputy City Manager
All

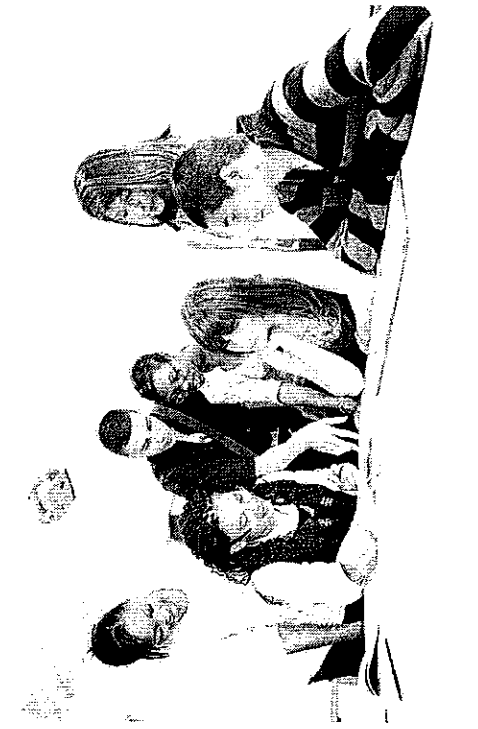
Objective 5.2: To continue the City's role in advocacy and information sharing on environmental issues

Actions	Time Frame	Responsibility Owner Resources	Status November 2009
5.2.1. <i>Continue Vaughan's participation in regional initiatives such as the annual Environment First Symposium for the purpose of fostering ongoing education and discussion of sustainability issues.*</i>	Ongoing	Deputy City Manager All	Staff will continue to work with the Region at every opportunity and participate in on-going policy development and implementation exercises and educational initiatives.
5.2.2. Develop an advocacy policy to identify, evaluate and select the environmental issues that the City wishes to take a formal advocacy role, including such matters as level of involvement and resources required.	2009-2010	Deputy City Manager All	Report planned for Q1-Q2 2010.
5.2.3. Create an inter-government relations strategy ensuring that the City of Vaughan participates in provincial, national and international forums and collaborates with neighbouring municipalities to share best practices (adapted from Vaughan Vision).	2009-2010	Deputy City Manager All	Report planned for Q1-Q2 2010.
5.2.4. Develop a policy for the consideration of partnering opportunities that may be initiated by the City, other governments and the private sector or public agencies (e.g. Green GTA Initiative, Eco-schools).	2009-2010	Deputy City Manager All	Report planned for Q1-Q2 2010.

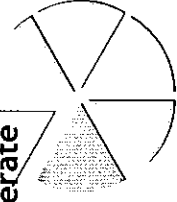
* *Actions in italics represent municipally-mandated responsibilities or initiatives that are already underway (or planned for) at the City*

Objective 5.2: To continue the City's role in advocacy and information sharing on environmental issues, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
5.2.5. Identify organizations for which the City should obtain membership. Participation in such initiatives should improve the City's profile, offer contact opportunities, provide for the beneficial exchange of information and opportunities for advocacy in areas of strategic importance.	2009-2010	Deputy City Manager	All	November 2009 Continuing throughout 2010.
5.2.6. Explore opportunities to work in partnership to create a public Vaughan Community Sustainability Forum to gather interested stakeholders together to share best practices in environmental and sustainability issues and facilitate the implementation of the outcomes.	2009-2010	Deputy City Manager	Clerks	Report planned for Q1-Q2 2010.



How we
operate



Goal 6: To ensure a supportive system for the implementation of the Community Sustainability and Environmental Master Plan

A large portion of the success of Green Directions will depend on the internal operations and functions that support its implementation. Therefore, Vaughan commits to a series of administrative, oversight, and monitoring actions to ensure Green Directions is fully integrated into our day-to-day municipal operations.

Objective 6.1: To fully support the implementation of Green Directions at all levels of City operations

Actions

- 6.1.1. Ensure, through on-going hiring practices, that the City retains staff with the necessary expertise in environmental/sustainability measures, standards and practices (as per Vaughan Vision 2020)
- 6.1.2. Continue to work with York Region and other area municipalities to coordinate policies, where beneficial, and to develop common and coordinated monitoring criteria.
- 6.1.3. Review and confirm the Mandate, Terms of Reference and Membership of the Environment Committee, in consideration of the approval of Green Directions. Also assess the future role of the Greening Vaughan Advisory Committee - GVAC.

Actions	Time Frame	Owner	Responsibility Resources	Status
6.1.1. Ensure, through on-going hiring practices, that the City retains staff with the necessary expertise in environmental/sustainability measures, standards and practices (as per Vaughan Vision 2020)	Ongoing	All	Legal and Admin (Human Resources)	November 2009 Human Resources will continue to support this initiative through the City's recruitment practices.
6.1.2. Continue to work with York Region and other area municipalities to coordinate policies, where beneficial, and to develop common and coordinated monitoring criteria.	Ongoing	All		Will continue consultation and interaction throughout 2010. It is especially critical in 2010 given the currency of the Regional and City OP processes. Developing coordinated approaches is a consideration in creating the City sustainability criteria. Staff will be reporting back in Q1/Q2 2010 on this matter. Budget status: In-house resources and no budget implications. On November 9, 2009 Committee of the Whole approved a recommendation from GVAC providing for the Committee to remain in place until the end of the current term of Council with updated Terms of Reference. Any resulting direction from a review of the City's Committee Structure will be included, if necessary.
6.1.3. Review and confirm the Mandate, Terms of Reference and Membership of the Environment Committee, in consideration of the approval of Green Directions. Also assess the future role of the Greening Vaughan Advisory Committee - GVAC.	2009-2010	Deputy City Manager	Engineering & Public Works (GVAC component) & Clerks	

6.1.4. Make required organizational and staffing adjustments to support the Environment Committee and the implementation of Green Directions which will include additional resources.

2009-2010

Deputy City Manager
All

An ARR has been submitted for consideration in the 2010 Operating Budget for an additional staff complement (1 FTE) to be assigned to Sustainability/Green Directions issues. Upon determination, a report will be prepared setting out the organizational and reporting relationships.

Objective 6.1: To fully support the implementation of Green Directions at all levels of City operations, continued

Actions	Time Frame	Responsibility		Status
		Owner	Resources	
6.1.5. Prepare annual environmental/sustainability project plans for endorsement by the Budget Committee.	Annually	Deputy City Manager	All	November 2009 Undertaken on an annual basis by each affect department.
6.1.6. Prepare an annual report to the Environment Committee on, among other things: <ul style="list-style-type: none"> The status of existing programs (milestones); Accomplishments; New initiatives; and Further opportunities For the purpose of monitoring the implementation of the plan.	Annually	Deputy City Manager	All	This update constitutes the initial annual report. Going forward it will be necessary to confirm its regular timing and a standard format will need to be developed. It should also incorporate any monitoring criteria or indicators ultimately developed pursuant to Section 4.2 "Monitoring and Reporting on Progress" and Appendix C "Draft Indicators" when they are prepared. Section 4.2 recommends that two years after the adoption of Green Directions (April 2011) a report be prepared on baseline sustainability indicators. Thereafter, an indicator report should be published on a minimum 5 year cycle. This could be combined with the annual report.