



## City of Eau Claire Green Tier Legacy Community Annual Report - 2012

*"It is our mission to provide for the common good and deliver services essential for a healthy, safe, sustainable community"*

### **I. Introduction**

The City of Eau Claire is pleased to present this report to the Wisconsin Department of Natural Resources (WDNR). We are eager to participate in this collaborative between the WDNR, 1,000 Friends of Wisconsin, League of Wisconsin Municipalities, Municipal Environmental Group – Wastewater, Center on Wisconsin Strategy, Wisconsin Energy Conservation Corporation, and the five original legacy communities. We are also glad to see additional municipalities joining the program in trying to make our State and local communities more sustainable.

The City recognizes that truly being sustainable is a difficult challenge in today's society. Our experience has been that it is a learning process and will continue to be as we make improvements. We have found acting sustainable means a balanced-approach; that not only protecting the environment is paramount, but improving human health and spending taxpayer dollars wisely are both very important.

Our first annual report notes the achievements of 2012, our baseline year, and also what we believe is important to list before joining the program last July. As part of our commitment, the City agreed to develop a Sustainability Implementation and Monitoring Plan. This annual report, our Sustainability Chapter in the City's Comprehensive Plan, the 25x25 Energy Independence Plan, and the Green Team Report, all aid in fulfilling this requirement.

Included in Section Five: Baseline & Goals, is a spreadsheet that captures our progress in the six critical areas of: transportation, land use, natural resources, energy, water, and waste. This Wisconsin Legacy Communities Strategy Options spreadsheet, or what is commonly referred to as "Appendix 3", was developed by the program creators. It will be used to monitor and implement sustainability. It is important to note it does not capture everything the City is doing related to sustainability and so the scoring is not absolute for our baseline year, 2013 goals, and for 2015. In time, hopefully the spreadsheet can evolve to capture more unique local examples of what communities are undertaking.

## II. Objectives

The following list is a summary of the various public declarations and commitments the City of Eau Claire has made relating to sustainability. They serve to instill purpose, direction, and vision in trying to make certain that the ecological, social, and economic principles of sustainability are achieved within City operations and in the greater community.

### 1. **City Council passed a State “Energy Independent Community” resolution (November ‘08)**

The resolution commits the City to obtain 25% renewable energy by the year 2025.

- **RESULTS:** Have obtained over 18% renewable energy towards meeting the 25% by 2025 goal. An Energy Independence Plan was created with a project action list via a 2010 pilot grant from the Wisconsin Office of Energy Independence (now the State Office of Energy). Thirty various renewable energy site assessments were conducted with this project for possible implementation.

### 2. **The City Council adopted a Sustainability Chapter within the Comprehensive Plan (April ‘09)**

The chapter contains community-wide policy implementation objectives on: energy, local food, environmental conservation, climate change, waste management, strong and healthy community, sustainable development, balanced transportation, greener economy, and sustainable local government.

- **RESULTS:** Many of the policies and projects have been implemented and are noted in the green team and department sections of this report.

### 3. **City Council Passed an Eco-municipality Resolution (May ‘09)**

This Council action directed City staff to use The Natural Step’s© (TNS) four system-conditions in evaluating projects and outcomes related to sustainability.

- **RESULTS:** Many employees attended TNS trainings. The organization continues to build a culture of sustainability in the way municipal operations are conducted.

### 4. **City Council passed a resolution to join the “Green Tier Legacy Community” program (July ‘12)**

The City was recognized in achieving superior environmental performance by invitation to join the program. After becoming a charter member, the City must provide a Sustainability Implementation and Monitoring Plan (Green Team Report and Sustainability Chapter were submitted already), provide an annual progress report, work on goals/projects, attend quarterly meetings, and network with other municipalities involved.

- **RESULTS:** The City has thus far been able to network and learn from other program participants. The commitment has further helped to embed sustainability into the municipal organization and focus on completing new projects.

**5. The commitment to sustainability is reflected in City’s official Mission Statement**

“We work together to meet the public needs, provide for the common good, and deliver services essential for a healthy, safe, and sustainable community. We accomplish this through transparent and accountable governance, civic engagement, and collaborative problem solving.”

- **RESULTS:** Staff has a clear purpose in performing their work and a sense of meaning. This contributes to organizational alignment, improved efficiency and public service/accountability.

**6. The City is an Eau Claire Area Chamber of Commerce certified “Green Business” (February ‘10)**

The City was one of the first certified members of the Eau Claire Area Chamber of Commerce’s Green Business Initiative. We also help support their initiative with a member of the City’s Green Team serving on their Green Business Committee.

- **RESULTS:** The City has furthered our relationship with our business community by working together on sustainability. There are now 60+ local businesses certified. The City and Chamber have jointly conducted educational seminars on green buildings, geothermal, and solar photovoltaics in the recent past. With the help of Focus on Energy, we also ran a renewable energy session for elected-officials and school board members.



### **III. Accomplishments**

The following section highlights what City of Eau Claire departments have achieved as it relates to sustainability. The vast majority of being sustainable is carried out via City departments. There is also a great level of cross-department coordination in projects. For instance, a 12-member interdepartmental Green Team has been helping to drive sustainability within the organization since its creation in 2008.

#### **Sustainability Initiatives by City's Green Team**

- Secured close to \$770,000 worth of grants related to various sustainability projects since the Green Team was founded.
- With an EPA grant via the WDNR, the National Renewable Energy Laboratory studied possible 3.5 – 4 MW solar array options on a closed City landfill.
- Determined the City's first carbon footprint for municipal operations. For year 2011, it was 28,514 metric tons of carbon dioxide equivalents, excluding sequestration.
- Researched the viability of a municipal compost site.
- Began to devise an improved battery recycling collection program amongst departments.
- Toured a power plant to better understand coal-burning power generation and emission control technology.
- Sent out monthly via staff email a "Green Tips" newsletter which helps promote more sustainable actions in the workplace.
- Reduced the electric bill for Blue Valley Landfill's VOC stripping tower by approx. \$5,000/year.
- Made numerous community presentations and attended public events/festivals to let citizens know what the City is doing when it comes to being more sustainable.
- Served on the Chippewa Valley Sustainable Future's Festival planning committee and Eau Claire Area Chamber of Commerce's Green Business Initiative Review Committee.
- Continue to maintain the City's Green Website and "Green Up your Life" resource directory.

#### **Sustainability Initiatives by City Department**

##### **Administrative Services Department**

- Assisted and coordinated the negotiations of an agreement with Xcel Energy for the remediation of contaminated soil in Owen Park.
- Electronically posted City Council meeting agendas, packets, and minutes to reduce paper use.
- Switched more computer servers over to "virtual" for energy and storage space savings.
- Encourage employees to power-down computers during overnight and weekends by posting posters in hallways. Turning off monitors also saves energy and electricity costs.
- Support implementation of AVL\GPS System for Public Works Department's fleet.

## Public Works Department

- Designing a multi-million dollar upgrade to the City's sewer plant that will increase methane reuse in the anaerobic digester by roughly 30%.
- Rebuilt methane gas mixing blower on #1 digester and installed a new flame arrestor on the methane gas system.
- Testing compressed natural gas (CNG) in fleet vehicles in 2013 and conducting a study to use extra methane at the City's sewer plant for CNG vehicles.
- Use geothermal energy at the City's water treatment plant since 2000.
- Installed variable frequency drives (VFDs) to lime metering pumps and to air handling unit at water treatment plant.
- Use water leak detection software to reduce municipal water/energy lost.
- Began research on developing a possible water conservation utility rate.
- Continue to implement an Anti-idling emission City vehicle policy and use AVL\GPS System to improve fleet routings.
- Started the procurement of three new diesel-electric hybrid buses.
- Located bus stop locations geographically in the city on Google Transit.
- Installed LED parking lot lighting at City Hall and at a street test site.
- Implemented with Information Systems the new WiMax networking system for Traffic Management Program (CENTRACS) software, to manage and control traffic signals remotely in reducing idle times.
- Use Energy Star Portfolio Manager and GX Billing to monitor/reduce building energy usage.
- Completed Energy Efficiency and Conservation Grant (EECBG) projects at City Hall which included a significant HVAC and lighting retrofit project that has an annual estimated value of \$10,800 in electricity savings and \$3,100 in natural gas savings. There is also \$13,000 in cost avoidance by installing HVAC software remote controls.
- Completed the Central Maintenance HVAC digital control upgrade.



## Parks, Recreation, and Forestry Department

- Ran the annual *Amazing Eau Claire Cleanup Day* the day before Earth Day. Many volunteers helped pick up trash and beautified the city.
- Continue to implement the objectives of the City's Urban Canopy Management Plan for a healthy urban forest.
- Planted 856 street and park trees in 2012.
- Assist groups with various community and neighborhood gardens in city parks.

- Purchased a garbage truck to collect more city operations and park waste thereby reducing contracted costs and improving recycling rates.
- Continued a test program using organic herbicides in a City cemetery.
- Continued treating Half Moon Lake with fourth herbicide treatment.
- Initiated Fairfax Pool filter/building renovations.
- Completed Owen Park renovation plan.



### Community Development Department

- Created a mixed-use overlay zoning district for general commercial redevelopment.
- Started work on a Health Chapter in the Comprehensive Plan to improve health related to the built environment.
- Per recommendations of the 2010 Bicycle and Pedestrian Master Plan created a bike rack ordinance for all new buildings and additions.
- Began sub-area planning with adjacent towns to reduce sprawl and protect farm land while trying to promote compact contiguous development.
- Updated the City's Waterways Plan, a plan to protect and enhance the City's waterways and adjacent natural resources.
- Researched construction and demolition ordinances and will continue work in 2013.
- Continued planning work on high speed passenger rail, intercity rail, and commuter rail.
- Coordinated Green Team meetings and Green Tier Legacy Community program work.
- Administered the Energy Efficiency and Conservation Block Grant program and the 25% by 2025 renewable energy State Energy Office grant.
- Coordinated *Our City Spring Clean-up* event.
- Rehabilitated 14 owner-occupied residential units, including the abatement of lead in 11 of those units and the abatement of asbestos in 3 units.

### Finance Department

- Implementation of Content Manager which allows electronic storage of financial records.
- Implementation of website utility bill information and payment by credit cards and e-checks to reduce paper usage.
- Received WDNR grants in shoreland property acquisition.

### Legal Department

- Created an updated Management of Waste and Recyclables ordinance that caps the number of waste haulers on City streets and allows special composting projects.

- Filed public nuisance action seeking removal of waste and excessive accumulation of items on both interior and exterior of property.
- Assisted on Owen Park access agreement with Xcel Energy for remediation of polluted land.

### **Human Resources Department**

- Revised wellness initiatives to reduce health insurance costs. Saved taxpayers over \$10 million in four years on healthcare costs by implementing employee health and wellness initiatives.
- Health and Wellness Committee led a National Bike Challenge/bike-to-work campaign which employees logged over 16,600 miles and reduced CO<sub>2</sub> emission by over 15,200 lbs.
- Continue to implement the Environmentally Preferable Purchasing Policy.
- Implemented new recruitment/online application system to reduce paper and postage use.
- On-Line Vendor Registration/Bid Notification Services continue through the Onvia Demandstar website to reduce paper costs.
- Continue to use the on-line auction service to sell surplus property.
- Reuse City office furniture and other desk equipment before auctioning or donating.
- Coordinated the remedial action concerning the former gas purification plant at Owen Park.
- Coordinated the development of a remedial action plan to address environmental issues related to the former Waste Water Treatment Plant outfall to the Chippewa River.
- Coordinated the revision and update of the City's Natural Hazards Mitigation Plan.

### **City/County Health Department**

- Collaborated on the City's Management of Waste and Recyclables ordinance.
- Provided leadership in extensive Eau Claire County silica sand mining health and safety research, reporting and ordinance revision.
- Continued to implement the radon and lead reduction programs.
- Facilitated *Don't Dump It- Donate It* and *Spring Move Out* (University of Wisconsin – Eau Claire Student Move Out Projects) to support community environmental health and safety.
- Completed the Community Development Block Grant housing survey which helps improve the conditions of deteriorated housing in low income areas of the city.
- Completed a community-wide Hazard Vulnerability Assessment (HVA) which identified key public health hazards.

### **Police Department**

- Continued to add more flex-fuel squad cars to the police fleet.
- Expanded use of bike patrol officers.
- Use Crime Analyst to identify areas of high activity and concentrated efforts in those areas.
- Continue to staff shifts according to peak hours of activity throughout the city.

- Use of technology in squad cars allow officers to communicate more efficiently, complete reports electronically reducing paper, and decrease the amount of time spent physically driving back and forth to the department, therefore reducing fuel consumption.

### **Fire Department**

- Evaluated all commercial and multiple family residential city properties to ensure the required fire inspections are conducted on regulated properties.
- The department promotes the Merry Mulch program, which starts the week after Christmas and runs for approximately 2-3 weeks. Residents can drop off Christmas trees at Carson Park and the City will grind them up for reuse.
- Converted department forms to electronic use to save paper.

### **Library**

- Working with Public Works, replaced water heater pumps and lighting control panels; completed roof cap and flashing work, masonry brick restoration, media-stack lighting, windows specifications projects, and began elevator renovations to save energy.
- Continued to grow and improve online media services (music, books, etc.) for customers via the library's newly revamped website and mobile website.





#### IV. Numbers

Energy Usage: City Operations	
Year	MMBTUs
2007	160,855
2008	167,722
2009	163,751
2010	n/a
2011	174,765

Water Usage: City Operations	
Year	CCF
2007	55,929
2008	65,701
2009	61,301
2010	56,346
2011	59,104
2012	*74,720

*\*Record-Breaking Heat.*

Waste Generated: City Operations*		
Year	Type	Tonnage
2012	Recycled	41.52
	Refuse	156.58
	Street Sweepings	2,332.00
	Total	2,530.10

*\*Does not include sites contracted and on-call service.*

Green Office Supplies: City Operations	
Year	% Purchased
2008	63.0%
2009	57.7%
2010	*38.1%
2011	34.4%
2012	53.0%

*\* Supplier's criteria changed for what was considered green for paper (10% up to 30% recycled content).*








<b>Transportation: City Operations</b>		
Year	Type	Miles
2012	Bike Lanes	2.67
	Multi-use Trails	27
	Streets	344.52
	Transit Service	666,409

<b>Transit Use: Community-at-large</b>	
Year	Fixed & Paratransit ridership
2007	1,061,114
2008	1,090,203
2009	1,006,107
2010	1,024,703
2011	1,076,620
2012	1,039,921

<b>Carbon Emissions: City Operations</b>	
Year	Metric tons (CO <sub>2</sub> e)
2011	28,514



## V. Appendix 3 - Baseline & Goals

    		City of Eau Claire 2012 Baseline*	City of Eau Claire 2012 Update*	City of Eau Claire 2013 Goal*	City of Eau Claire 2015 Goal*																																																																																																																																																																																										
Field	Value	<p><b>Wisconsin Legacy Communities Strategy Options</b></p> <p>The purpose of the strategy options matrix is to provide a broad list of best management practices that encompass several elements of sustainability including transportation, energy, land use, water, and waste. This list is not inclusive.</p> <p>Prospective signatories should use the strategy options to gauge environmental performance and then use this baseline to strive for superior results.</p> <p>Superior environmental performance may be achieved when municipalities use the strategy options to develop a sustainability plan that reduces their overall negative impact on the environment.</p> <p style="text-align: center;"><b>TRANSPORTATION DEMAND MANAGEMENT:</b></p> <p>Transportation demand management strategies aim to reduce GHG emissions and VMT by influencing change in individual behavior. These strategies encourage walking, bicycling, and transit as modes of transportation within a community and seek to curb the number and length of trips by vehicle.</p> <p><b>Bicycle and Pedestrian Programs/Projects</b></p> <tr> <td>2</td> <td>Require bike parking for all new non-residential and multifamily uses.</td> <td>0</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>1</td> <td>Set standards for placement and number (as function of intensity of use) for bike parking spaces.</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>3</td> <td>Commuter bike routes identified and cleared.</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>5 to 10</td> <td>League of American Bicyclists certification. 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5	Calculate lane-miles per capita for arterials and collectors, and show reductions	1	1	1	1																																																																																																																																																																																										
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5	Any proposal to add lanes to a two-lane roadway shall be evaluated for a center turn lane, the preferred option over an expansion to four lanes.	5	5	5	5																																																																																																																																																																																										
3	Identify four-lane roadways with fewer than 20,000 vehicles per day (AADT) and evaluate them for "road diets" with bike lanes or on-street parking	3	3	3	3																																																																																																																																																																																										
	<b>Electric Vehicles</b>																																																																																																																																																																																														
1	Allow NEVs on appropriate roadways.	1	1	1	1																																																																																																																																																																																										
2	Provide public charging stations	0	0	0	1																																																																																																																																																																																										
	<b>Vehicle Idling</b>																																																																																																																																																																																														
2	Ban idling (more than 5 minutes) with local government vehicles.	2	2	2	2																																																																																																																																																																																										
5	Ban idling (more than 5 minutes) community-wide.	0	0	0	0																																																																																																																																																																																										

\*The City of Eau Claire's first Baseline was conducted in July 2012 before signing onto the program. The final 2012 update, 2013, and 2015 goal setting was completed by City staff in February 2013.

		<b>ZONING AND DEVELOPMENT</b>				
		Zoning and development strategies work toward improving the overall environmental, economic, and social health of a community by promoting mixed-use and infill development, walkable neighborhoods, and an overall sustainable lifestyle.				
L A N D  U S E	<b>Infill Development</b>					
	5	Identify priority areas for infill development, including those eligible for brownfields funding.	3	3	4	5
	1	Create land bank to acquire and assemble priority infill sites	1	1	1	1
	1	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application	0	0	1	1
	<b>Walkscore</b>					
	10	Measure Walkscore at 10 random residential addresses per Census tract, compute average, and improve upon overall score	0	0	5	6
	<b>Zoning</b>					
	5	Adopt traditional neighborhood design ordinance (if population is less than 12,500)	n/a	n/a	n/a	n/a
	5	Zoning for office and retail districts permits floor-area ratio > 1, on average.	3	3	3	3
	8	Zoning for office and retail districts requires floor-area ratio > 1, on average.	0	0	0	0
5	Zoning code includes mixed use districts	5	5	5	5	
8	Mixed-use language from Smart Code.	5	5	5	5	
		<b>NATURAL RESOURCE MANAGEMENT</b>				
		Natural resource management strategies seek to conserve, preserve, protect and promote a community's greenspace, wildlife, wetlands and waterways for this and future generations by promoting pervious surfaces and adequate setbacks.				
		<b>Canopy</b>				
3	Adopt tree preservation ordinance per GTLC standards.	0	0	0	3	
4	Set a tree canopy goal and develop a management plan to achieve it	3	3	3	4	
2	Require trees to be planted in all new developments	2	2	2	2	
2	Certification as Tree City USA	2	2	2	2	
		<b>Vegetation Management</b>				
2	Public properties and rights of way mown or cleared only for safe sightlines and/or to remove invasive species.	1	1	1	1	
2	Create community policy and BMP guidelines on minimizing chemical use during vegetation management of public and private properties.	1	1	1	1	
		<b>Water Protection</b>				
10	Establish 75-foot natural vegetation zone by surface water.	3	3	3	4	
5	Inventory wetlands and ensure no net annual loss.	3	3	3	3	
		<b>COMMUNITY ENERGY USE</b>				
		Community energy use strategies encourage energy efficiency and the use of renewable fuels to reduce total energy consumption throughout the community				
		<b>Community Energy Use Policies</b>				
6	Use PACE financing	0	0	0	0	
1	Watt meters available to the public	1	1	1	1	
10	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).	0	0	0	0	
		<b>Measuring Community Energy Use</b>				
4	Work with local utilities to calculate total electricity and natural gas consumption annually, beginning with the fifth year before entering the program.	4	4	4	4	
1	State of Wisconsin Energy Independent (EI) Community designation.	1	1	1	1	
		<b>MUNICIPAL ENERGY USE</b>				
		Municipal energy use strategies encourage municipal employees to conserve energy, preserve the environment, and decrease greenhouse gas emissions from municipal facilities, services, and vehicle fleets.				
		<b>Government Energy Use Policies</b>				
5	Include transportation energy/emissions as criterion in RFPs for purchases of goods over \$10,000.	0	0	0	0	
3	Develop list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager or LEED EBO&M score	1	1	2	2	
3	Reduce motor fuels use for non-transit activities --	1	1	1	2	
6	Provide transit passes at 50 percent or more off the regular price and/or provide parking cash-out options for local government employees.	0	0	0	0	
5	Streetlights operate at 75 lumens/Watt or higher	4	4	4	4	
3	Stoplights are LED or functional equivalent	3	3	3	3	
5	Municipal electricity purchases are at least 5 percentage points higher in renewable content than the statewide renewable portfolio standard requires. Calculation may include self-generated power and purchased offsets.	5	5	5	5	
		<b>Measuring Government Energy Use</b>				
5	Complete EPA Energy Star Portfolio Manager spreadsheet for government energy use. Or score existing buildings with LEED EBO&M.	4	4	5	5	
2	Calculate annual government fleet use of motor fuels, in gallons of petroleum and biofuels, beginning with the fifth year before entering the program.	2	2	2	2	
10	All new and renovated municipal buildings must meet LEED Silver or greater.	0	0	0	8	

		<b>WATER USE CONSERVATION</b>				
		<b>Water Conservation strategy options set baselines and goals for water and energy performance in municipalities. They measure progress and promote water conservation by the government, business, and the community at-large.</b>				
<b>W A T E R</b>		<b>Water Conservation</b>				
	6	Track water and sewer use annually, beginning with fifth year before entering program, and develop plan for reductions.	6	6	6	6
	4	Develop a water loss control plan with targets below the 15% required by the state and include a system-wide water audit implementation and time table	4	4	4	4
	2	Join EPA's WaterSense Program for water utilities or the Groundwater Guardian Green Sites program and promote them to local business.	0	0	0	0
	6	Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.	0	0	0	2
	1	Financial assistance for sewer lateral replacements.	0	0	0	0
	2 to 6	Upgrade water utility equipment (e.g., variable frequency drive motors) to achieve energy efficiency.	3	3	4	5
	3	Infiltration and inflow reduction by 10%	3	3	3	3
	5	Wastewater biogas captured and used in operations.	5	5	5	5
	5	Plan for replacing all toilets using > 1.6 gpf and annual progress sufficient to reach 90 percent replacement in 10 years.	2	2	2	2
		<b>Local Government Use</b>				
	2	Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)	0	0	0	1
	3	All outdoor watering by local government, excluding parks and golf courses, from rain collection.	0	0	0	1
	4	Develop a water efficiency and conservation plan for municipal buildings	1	1	1	2
		<b>STORMWATER MANAGEMENT</b>				
	<b>Stormwater Management strategy options encourage the use of best management practices to achieve a reduction in the amount of harmful pollutants introduced to our streams, rivers, and lakes.</b>					
3	Develop a regular street sweeping program to reduce total suspended solids	3	3	3	3	
3	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	1	1	1	1	
2	Inventory all paved surfaces (e.g., by GIS mapping), and develop a plan for reduction	1	1	1	1	
2	Work with commercial or light industrial businesses to develop stormwater pollution plans	2	2	2	2	
	<b>WATER AND DEVELOPMENT</b>					
	<b>Water and Development strategy options link water conservation and the preservation of land, wetlands, and wildlife habitat while promoting compact development, restoration and rehabilitation efforts, and long-term planning.</b>					
	<b>Land Development</b>					
5	Identify key green infrastructure areas during plan development and/or implement a plan to acquire and protect key green infrastructure areas	5	5	5	5	
	<b>Waters, Wetlands, and Wildlife</b>					
1 to 6	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	5	5	5	5	
3	Develop a system for identifying culverts that obstruct fish migration and install fish friendly culverts where needed	2	2	2	3	
4	Provide incentives for protection of green infrastructure, sensitive areas, important wildlife habitat, or for the restoration or rehabilitation of wetlands or other degraded habitats such as credit towards open space or set-aside requirements	3	3	3	3	
	<b>WASTE MANAGEMENT AND REDUCTION</b>					
	<b>Waste Management and Reduction strategy options encourage municipalities and their citizens to divert organics and recyclables from landfills and properly dispose of hazardous materials in an effort to reduce waste in a community.</b>					
3	Community waste stream monitored at least annually. Waste reduction plan prepared and updated annually	1	1	1	1	
4	Waste and materials management plan based on "zero-waste" principles, with specific goals, prepared and updated annually	0	0	0	0	
3	Construction/deconstruction waste recycling ordinance	0	0	3	3	
3	Mandatory residential curbside recycling pickup that covers paper, metal cans, glass and plastic bottles	3	3	3	3	
5	Develop a municipal collection program that encourages the diversion of food discards, yard materials, and other organics from landfills to composting or anaerobic digestion with energy recovery	2	2	2	4	
3	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	3	3	3	3	
4	Use anaerobic digesters to process organic waste and produce energy	4	4	4	4	
3	Implement municipal ordinances requiring manufacturer takeback for fluorescent bulbs, thermostats and other mercury-containing devices	0	0	0	1	
2	Ordinances in place to reduce the usage of phone books as well as single-use shopping bags, styrofoam food containers and other disposable packaging	0	0	1	1	
2	Pay-as-you-throw system implemented by municipality or required of private waste haulers	0	0	0	0	
1	Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction	1	1	1	1	
325		<b>165</b>	<b>168</b>	<b>183</b>	<b>214</b>	
		51%	52%	56%	66%	
<b>W A S T E</b>						