

## Chapter 5 - Les Cheneaux Watershed Goals and Objectives

### 5.1 Goals

The goals stated in the Les Cheneaux Watershed Management Plan are aimed at protecting the designated and desired uses mentioned earlier in the plan. The objectives outline how project partners will reach the determined goals. Later, tasks will be designed to reach objectives. This plan of action will help maintain the Les Cheneaux watershed as a recognized high quality water body worthy of protection.

Table 5.1.1. Watershed Goals and the Designated/Desired Use They Address

Threatened Uses	Goal
Public water supply	Protect individual on site water well surface water intake drinking water quality.
Partial body contact recreation	Restore/protect water quality to sustain partial body contact recreational use.
Total body contact recreation	Restore/protect water quality to sustain total body contact recreational use.
Warm/coldwater fishery and other indigenous life/wildlife	Establish, promote, and execute land and water management practices that conserve and protect the natural resources of the watershed.
Navigation	Restore/protect navigation opportunities by decreasing sediment and nutrient loading to navigable surface waters.
Desired Uses	Goal
Aquatic recreation	Provide appropriate opportunities for public enjoyment of aquatic/terrestrial resources including but not limited to walking trails, scenic overlooks, boat launches, and public access areas.
	Establish and promote education/information programs that promote stewardship and low impact recreational enjoyment of aquatic and terrestrial resources.
Natural aesthetic character	Preserve the unique nature-based aesthetic character of the Les Cheneaux Islands area.
Threatened and endangered species habitat	Identify and protect priority habitat for threatened and endangered species.
All designated and desired uses	Establish education and information programs that promote the conservation, education, protection, restoration, and sustainability of aquatic resources within the Les Cheneaux watershed.

## Objectives for Watershed Goals and Pollutants Addressed

The following table defines the objectives for each watershed goal and the tasks needed to realize objectives. Pollutants addressed by each goal and set of objectives and task are also listed.

**Table 5.2.1. Goals and Objectives**

<b>Goal</b>	<b>Objectives by Source/Cause</b>	<b>Pollutants Addressed</b>
<b>Protect drinking water quality (public water supply)</b>	<p><b>Reduce the input of pathogens reaching groundwater and surface water by:</b></p> <ul style="list-style-type: none"> <li>• Identify and correct failing septic systems</li> <li>• Identify noncompliant systems and assist landowners with planning to gain Health Department OSS compliance in a feasible time frame</li> <li>• Identify and implement alternative municipal and on-site wastewater management strategies</li> <li>• Establish a funding program to assist landowners with correcting failing systems and pursuing compliant systems</li> <li>• Providing I/E to shoreline landowners as to aquatic wildlife management and ecosystems</li> <li>• Provide I/E to township, and county regarding stormwater processes.</li> <li>• Work with county and townships to design and implement stormwater management programs</li> <li>• Protect groundwater and surface water recharge areas (wetlands, headwaters) and discourage water withdrawals that negatively impact aquatic systems</li> <li>• Identify and close all abandoned wells</li> </ul> <p>Reduce the input of nutrients reaching groundwater and surface water by: <b>Same as above</b></p> <p><b>Reduce the input of toxins reaching groundwater and surface water by:</b> In addition to above:</p> <ul style="list-style-type: none"> <li>• Educate public to the appropriate disposal and management of hazardous waste, onsite water well and septic maintenance</li> <li>• Provide I/E to community, especially aquatic recreationists and businesses, regarding toxin sources, pollution controls. Assist group in implementing controls</li> </ul>	Pathogens Toxins Nutrients
<b>Restore/protect full and partial body contact recreational use</b>	<p><b>Reduce the input of pathogens reaching groundwater and surface water by:</b></p> <ul style="list-style-type: none"> <li>• Identify and correct failing septic systems</li> <li>• Identify noncompliant systems and assist landowners with planning to gain Health Dept. OSS compliance in a feasible time frame</li> <li>• Identify and implement alternative municipal and on-site wastewater management strategies</li> <li>• Establish a funding program to assist landowners with correcting failing systems and pursuing compliant systems</li> <li>• Providing I/E to shoreline landowners as to aquatic wildlife management and ecosystems</li> </ul>	Pathogens
<b>Restore and protect the Warm/coldwater fishery</b>	<p><b>Reduce hydrology alterations by:</b></p> <ul style="list-style-type: none"> <li>• Restore and maintain natural hydrology in creeks</li> </ul>	Toxins Altered

Goal	Objectives by Source/Cause	Pollutants Addressed
<p><b>and other indigenous aquatic and terrestrial wildlife</b></p>	<p>and wetlands through road/water body crossings improvements</p> <ul style="list-style-type: none"> <li>• Provide I/E to township, and county regarding stormwater processes</li> <li>• Work with county and townships to design and implement stormwater management programs</li> </ul> <p><b>Reduce sediment by:</b></p> <ul style="list-style-type: none"> <li>• Stabilizing eroding stream banks</li> <li>• Pursuing SESC compliance from riparian development projects</li> <li>• Providing I/E to community regarding erosion/sedimentation threats</li> <li>• Minimize filling of wetlands, dredging, and other land-use activities disturbing soils near water bodies</li> </ul> <p>Reduce the amount and potential of toxins impacting wildlife by:</p> <ul style="list-style-type: none"> <li>• Creating awareness as to hazardous waste and its management</li> <li>• Pursue a hazardous waste collection site in watershed</li> </ul> <p>Reduce nutrients from impacting aquatic life by:</p> <ul style="list-style-type: none"> <li>• Provide I/E to township, and county regarding stormwater processes</li> <li>• Work with county and townships to design and implement stormwater management programs</li> <li>• Identify and implement alternative municipal and on-site wastewater management strategies</li> <li>• Providing I/E to shoreline landowners as to aquatic wildlife management and ecosystems</li> </ul> <p>Reduce invasive species impacts by:</p> <ul style="list-style-type: none"> <li>• Provide I/E regarding invasive species threats, techniques for control</li> </ul>	<p>Hydrology Sediments Nutrients Invasive Species</p>
<p><b>Restore/protect navigation opportunities</b></p>	<p><b>Reduce input of nutrients entering Cedarville Bay by:</b></p> <ul style="list-style-type: none"> <li>• Identifying and implementing alternatives to the municipal wastewater discharge.</li> <li>• Restore eroded stream banks, road embankments, and eliminate direct runoff paths from road surfaces.</li> <li>• Assess stormwater nutrient/sediment inputs and design management plan.</li> </ul> <p>Reduce input of sediments entering Cedarville Bay by:</p> <ul style="list-style-type: none"> <li>• Restore eroded stream banks, road embankments, and eliminate direct runoff paths from road surfaces.</li> <li>• Assess stormwater nutrient/sediment inputs and design management plan</li> </ul>	<p>Nutrients Sediments</p>
<p><b>Provide appropriate opportunities for public enjoyment of aquatic/terrestrial resources including but not</b></p>	<p>Create appropriate low-environmental impact recreational opportunities and access to the enjoyment of aquatic and terrestrial resources:</p> <ul style="list-style-type: none"> <li>• Identify appropriate locations for trails to provide recreation opportunities and promote the installation,</li> </ul>	<p>Nutrients Sediment</p>

Goal	Objectives by Source/Cause	Pollutants Addressed
<p>limited to walking trails, scenic overlooks, boat launches, and public access areas.</p>	<p>maintenance, and monitoring of them for appropriate use.</p> <ul style="list-style-type: none"> <li>• Identify appropriate areas for public access to Lake Huron, inland lakes, and creeks and promote and facilitate the acquisition or use of properties and the installation of appropriate access facilities.</li> <li>• Provide education/information opportunities for the public as to the available aquatic and terrestrial recreation opportunities in the watershed and the management responsibility of resources to maintain those opportunities</li> <li>• Facilitate creek walks, kayaking, fishing, hunting, and other low impact recreational workshops and opportunities</li> </ul>	
<p>Preserve the unique nature-based aesthetic character of the Les Cheneaux Islands area by promoting and executing shoreline and riparian conservation easements, land acquisitions, and deed restrictions.</p>	<p><b>Preserve character by promoting and executing undeveloped land protection by:</b></p> <ul style="list-style-type: none"> <li>• Educate community and promote shoreline and riparian conservation easements, land acquisitions, and deed restrictions.</li> <li>• Facilitate workshops, activities, and land use planning regulation that supports the sustainability of environmental and economic livelihood.</li> <li>• Assess regulations, ordinances, attitudes, and trends in relation to undeveloped land protection and facilitate the improvement of those entities for the protection of undeveloped lands.</li> </ul> <p>Preserve existing historical, cultural, and environmental features by:</p> <ul style="list-style-type: none"> <li>• Assess regulations, ordinances, attitudes, and trends in relation to developed land protection and facilitate the improvement of those entities for the protection of aesthetic character of the watershed.</li> <li>• Facilitating I/E for landowners creating awareness as to environmentally-friendly development practices</li> </ul>	<p>Sediment Nutrient Toxins Altered Hydrology Invasive Species Pathogens</p>
<p>Identify and protect priority habitat for threatened and endangered species</p>	<p><b>Protect habitats by:</b></p> <ul style="list-style-type: none"> <li>• Identify and publicize priority threatened and endangered species habitats</li> <li>• Provide stewardship information, education, and volunteer opportunities to landowners, business owners, and students</li> <li>• Promote and execute threatened and endangered species habitat protection through conservation easements, land acquisitions, and deed restrictions.</li> <li>• Pursue tax incentives to landowners who possess priority habitats</li> <li>• Provide technical assistance to developers, realtors, and contractors in dealing with development on priority habitats</li> <li>• Assist townships with land use planning and regulation including development of ordinances to protect aquatic and terrestrial resources</li> <li>• Improve stormwater management throughout the watershed</li> <li>• Increase the awareness of developers, township</li> </ul>	<p>All</p>

<b>Goal</b>	<b>Objectives by Source/Cause</b>	<b>Pollutants Addressed</b>
	officials, and businesses on the impacts of development on natural resources and biological communities	
<b>Establish education and information programs that promote the conservation, education, protection, restoration, and sustainability of aquatic resources within the Les Cheneaux watershed.</b>	<ul style="list-style-type: none"> <li>• Raise awareness and knowledge about water quality concerns in the watershed, pollutants, their sources and causes, and strategies to reduce pollution and realize water quality protection.</li> <li>• Increase community involvement in the implementation of the management plan, the reduction of pollutants and guaranteed designated uses for future generations.</li> <li>• Motivate the community to develop a positive stewardship ethic towards the protection of aquatic resources and natural systems in the watershed.</li> </ul>	All