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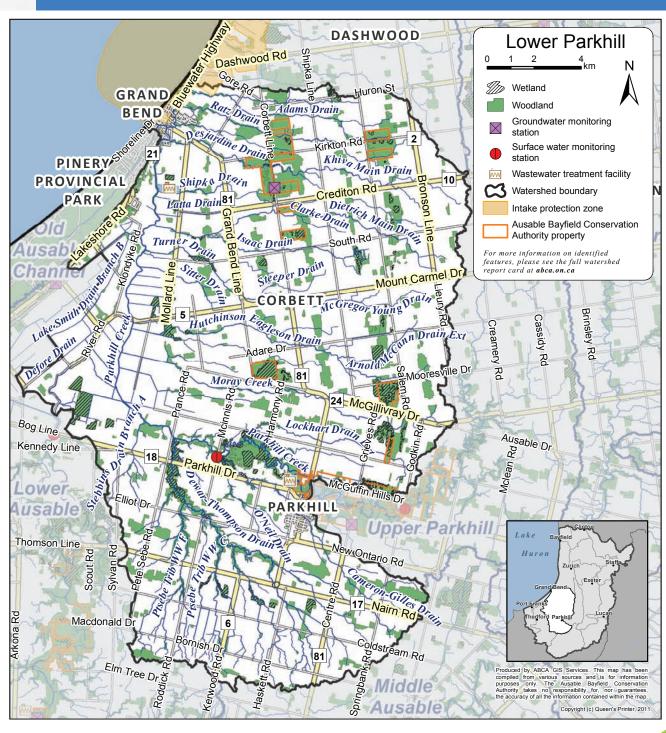
# Lower Parkhill WATERSHED REPORT CARD











# Top action needed to enhance this watershed:

Conserve topsoil with conservation tillage, cover crops, windbreaks, and surface water management.

For other recommended actions, see back page.

AUSABLE BAYFIELD CONSERVATION
CREATING AWARENESS | TAKING ACTION

The standards used
in this report card were developed by conservation
authorities to ensure consistent reporting across the province
of Ontario and are intended to provide watershed residents
with information to protect, enhance, and improve the

precious resources that surround us.

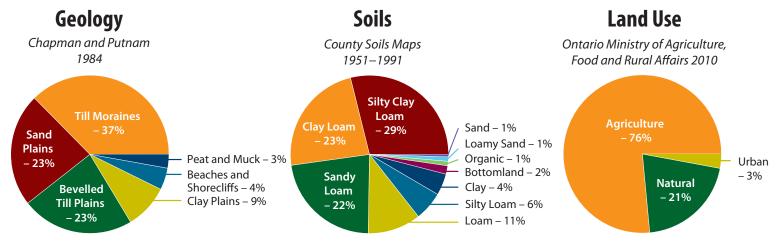


## **Watershed Features**

**Area:** 334 km<sup>2</sup>

Municipalities: Lambton Shores, North Middlesex, South Huron

Watershed features, such as geology, soil type, and land use, help explain forest conditions and the quality of groundwater and surface water.\*



## Fish:

- There is a warm-water fishery in the main channel.
- The tributaries have baitfish.

# Species at Risk:

 One mammal, one bird, three reptile, one fish, and seven plant species at risk in this watershed.\*



#### **Other Watershed Residents**

Bald eagles were once on the brink of extinction, but populations of this majestic bird have rebounded in southern Ontario due to controls on certain pesticides that affect its reproductive success. Eagles play an important ecological role as predators and scavengers.

# **Watershed Monitoring**

Ausable Bayfield
Conservation monitors
watershed conditions.
Look for a dial graphic like
this one at abca.on.ca for
low-water advisories and flood messages.



For some data collection needs, especially rainfall amounts, local residents are encouraged to help monitor the watershed.

Other monitoring opportunities may exist. Call us if you're interested at **519-235-2610** or toll-free at **1-888-286-2610**.

# Groundwater Quality

- Concentrations of nitrate and chloride are better than the drinking water standard for nitrate and guideline for chloride at the deep provincial monitoring well in this watershed.
- No grade was assigned at the watershed level because groundwater boundaries differ from surface water boundaries.
- Different types of aquifers exist throughout the region and the quality of your well water may vary from that of the provincial monitoring wells.\*

<sup>\*</sup> See the complete Watershed Report Card at abca.on.ca for more information.

# **Forest Conditions and Water Quality**







Indicator	Description	Result		2012 Grade	
		2007	2012	Lower Parkhill	Entire ABCA Area
Forest cover	<ul> <li>Forest cover is the percentage of a watershed that is forested.</li> <li>An A grade is forest covering more than 35% of a watershed.</li> </ul>	14%	14.7%	D	D (14.1%)
Forest interior	<ul> <li>Forest interior is the percentage of a watershed with forest cover that is at least 100 metres from the forest's edge.</li> <li>Some birds need this area to nest and breed.</li> <li>An A grade is forest interior covering more than 11.5% of a watershed.</li> </ul>	3.4%	3.5%	D	D (3.2%)
Streamside cover	<ul> <li>Streamside cover is the percentage of the 30-metre area on both sides of open streams that is forested.</li> <li>An A grade is forest covering more than 57.5% of this streamside area.</li> </ul>	N/A	26.3%	D	C (32.7%)

	Grade:	Result		2012 Grade	
Wetland Cover		2007	2012	Lower Parkhill	Entire ABCA Area
<ul> <li>Wetland cover is the percentage of a watershed that is covered by wetlands.*</li> <li>An A grade is wetlands covering over 11.5% of a watershed.</li> </ul>		N/A	2.4%	F	F (2.4%)



# **Surface Water Quality**





Indicator	Description	Result		2012 Grade	
		2007	2012	Lower Parkhill	Entire ABCA Area
Total phosphorus	<ul> <li>Total phosphorus is a nutrient that enhances plant growth and contributes to excess algae and low oxygen in streams.</li> <li>An A grade is a 75th-percentile* total phosphorus concentration of less than 0.020 mg/L.</li> </ul>	0.134 mg/L	0.133 mg/L	D	D (0.073)
E. coli (Escherichia coli)	<ul> <li>E. coli are bacteria found in human and animal waste. Their presence indicates water may contain other disease-causing organisms.</li> <li>An A grade is a geometric-mean* E. coli concentration of no more than 30 colony forming units (cfu) per 100 mL.</li> </ul>	180 cfu/100 mL	146 cfu/100 mL	С	C (113)
Benthic invertebrates	<ul> <li>Benthic invertebrates are small animals, without backbones, that live in stream sediments.</li> <li>A Family Biotic Index (FBI) summarizes the numbers and types of these animals in a sediment sample. Values reflect stream health, ranging from 1 (healthy) to 10 (degraded).</li> <li>An A grade is an average FBI value of no more than 4.25.</li> </ul>	5.27	5.88	D	C (5.51)

<sup>\*</sup> See the complete Watershed Report Card at abca.on.ca for definitions of wetlands, 75th percentile, and geometric mean.



## **Next Steps**



## Thumbs up!

Grand Bend Community Foundation has held an annual Aquafest water festival since 2009. This festival, held in early August, promotes the stewardship of our freshwater resources.

This is just one example in the watershed. Let us know about projects you and your community are doing.

#### Grants

Funding may be available to help you plant trees, control erosion, and improve water quality.



## How can you help between now and the next Watershed Report Card?

#### You can ...

- Strategically plant a variety of native trees and shrubs as windbreaks around farms. along watercourses and floodplains, around existing woodlots, and on less productive farmland.
- Practise conservation tillage and plant row crops across the slope of the land on erosionprone soils.

### Your community can ...

- Continue to undertake environmental awareness programs, like the Yellow Fish Road.
- Link the natural areas near Parkhill Creek with natural areas of the Lower Ausable River.

### Local agencies can ...

- Encourage proper electronic and hazardous waste disposal by promoting these services.
- Synthesize current and historic water quality data for the Desjardine Drain.

**Take Action!** Develop an individual action plan for your property – call us to find out how.

### Links to the Great Lakes

No matter where you live in the watershed, vou are linked to the Great Lakes.

> The local actions you take make a difference for Lake Huron.







Visit **abca.on.ca** for the complete Watershed Report Card for all Ausable Bayfield watersheds.

Ausable Bayfield Huron Conservation

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