


















Table 2.1

TRENT-SEVERN WATERWAY – STATE OF THE WATERWAY REPORT CARD									
Indicator / Measure	Description	Condition	Trend	Confidence				Comments	
				Term	Who	QC	All		
<b>Wetlands</b>									
Wetland Cover	Percentage of wetland cover of tertiary watersheds compared to total watershed area.		 ?	FAIR	GOOD	POOR	POOR	<ul style="list-style-type: none"> <li>All tertiary watersheds are below 10% wetland cover.</li> <li>Original amount of wetland cover could not be determined.</li> <li>Rate of loss is not know but suspected to be incrementally increasing</li> <li>No consistent tracking of condition.</li> <li>MNR SOLRIS project may provide long term tracking opportunity</li> </ul>	
<b>Terrestrial Ecosystems</b>									
Forest Cover	Changes in the ratio of forest area to the watershed area for tertiary watersheds.		?	FAIR	GOOD	POOR	FAIR	<ul style="list-style-type: none"> <li>All tertiary watersheds except Lake Scugog are above the minimum recommended amount of % forest coverage.</li> <li>OBM data is dated</li> <li>Trends cannot be determined.</li> <li>Opportunities exist to use SOLRIS data to track future.</li> </ul>	
Interior Forest	Percent of forest interior by tertiary watershed.		?	FAIR	GOOD	POOR	FAIR	<ul style="list-style-type: none"> <li>All tertiary watersheds except Lake Scugog are above the minimum recommended amount of % interior forest.</li> <li>OBM data is dated</li> <li>Trends cannot be determined</li> <li>Opportunities exist to use SOLRIS data to track in the future.</li> </ul>	
Forest Patch Size	Change in forest patch size by tertiary watershed.		?	FAIR	GOOD	POOR	FAIR	<ul style="list-style-type: none"> <li>It can be expected that at least some of the largest forest patches in the tertiary watersheds meet and exceed the recommended guideline minimum.</li> <li>Trends cannot be determined.</li> <li>OBM data is dated</li> <li>Opportunities exist to use SOLRIS data to track future.</li> </ul>	
<b>Aquatic Ecosystems</b>									
Shoreline Ecosystems	See building density and shoreline hardening.								

Source: Mystic Consulting Services and Ecoplans Limited, *State of Environmental Health*, 2005, Vol. 1 of *Indicators of Environmental Health and Long-Term Monitoring Strategy, Trent-Severn Waterway National Historic Site*, for Parks Canada, pp.9-11. (Table 2.1)

TRENT-SEVERN WATERWAY – STATE OF THE WATERWAY REPORT CARD								
Indicator / Measure	Description	Condition	Trend	Confidence				Comments
				Term	Who	QC	All	
Invasive Species Distribution	Distribution of Zebra Mussels and Spiny Water Flea as an indication of rate of expansion of invasive species in Waterway.			FAIR	FAIR	FAIR	FAIR	<ul style="list-style-type: none"> <li>Number and distribution of exotic invasive species is increasing. &amp; cause for concern.</li> <li>Voluntary watch program in existence for over 20 years.</li> <li>Data collection is through volunteers but all reports are validated by experts before observation is accepted.</li> <li>OFAH and MNR partnership exists.</li> <li>No comprehensive and structured monitoring strategy.</li> </ul>
<b>Pollutants (Tri-Lakes Area Only)</b>								
Water Quality	Level of total phosphorus and clarity.			G	FAIR	VG	G	<ul style="list-style-type: none"> <li>The OMOE program has been in place for 25 years.</li> <li>Sample analysis based on established protocols.</li> <li>Sample testing is sporadic and relies on samples collected by volunteer groups or other agencies.</li> <li>Consistency of data is poor for many areas of TSW.</li> </ul>
E. coli Presence	Number of beach postings as a result of E.coli levels above safe swimming levels.			VG	VG	VG	VG	<ul style="list-style-type: none"> <li>City and county health units responsible.</li> <li>Sampling carried out daily during the summer at all beaches.</li> <li>Testing done according to standard provincial protocols.</li> <li>Data consistency good.</li> </ul>
Air Quality	Trend in air quality index and trend in smog advisories issued by MOE.			G	VG	VG	G	<ul style="list-style-type: none"> <li>OMOE monitoring station only recently re-established.</li> <li>Monitoring protocols standard for the province.</li> <li>Data consistency good.</li> </ul>
Fish Consumption	Level of contamination of sport fish by persistent heavy metals.			VG	FAIR	VG	G	<ul style="list-style-type: none"> <li>OMOE program has been in place for several years.</li> <li>Sample analysis is based on established protocols.</li> <li>Sample testing relies on sample collection by volunteer groups.</li> <li>Consistency of data is poor for many areas of TSW.</li> </ul>
<b>Footprint (Tri-Lakes Area Only)</b>								
Building Density	Percent change in density of buildings within 100 m and beyond 100 m of the shoreline.			FAIR	POOR	G	FAIR	<ul style="list-style-type: none"> <li>Change in building density over the term of the data increased dramatically and likely continues to increase but at a slower rate.</li> <li>Comparative mapping data exists to 1994.</li> <li>There is no single agency tracking this information across the system.</li> <li>Shoreline density likely the most useful measure.</li> <li>No carrying capacity studies for the area are known to exist.</li> </ul>

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Indicator / Measure	Description	Condition	Trend	Confidence				Comments					
				Term	Who	QC	All						
Road Density	Change in density of roads within the Greater Waterway Ecosystem and an indication of habitat deterioration.			FAIR	POOR	G	FAIR	<ul style="list-style-type: none"> <li>Rate of density increase is decreasing over term of the data and likely continues to decrease.</li> <li>Comparative mapping data exists to 1994.</li> <li>There is no single agency tracking this information across the system.</li> <li>Road density likely a useful measure.</li> <li>No carrying capacity studies for the area are known to exist.</li> </ul>					
Shoreline Hardening	Number of permits issued for in-water works involving shoreline hardening.			VG	VG	FAIR	G	<ul style="list-style-type: none"> <li>Permitting authority is clear.</li> <li>Governing policy is new and untested. History of some inconsistency.</li> <li>Tracking program is in place but needs improvement to geo-reference permits.</li> <li>Recent trends are to declining number of permits but this is only 1 year.</li> <li>High degree of shoreline alteration already exists.</li> </ul>					
<b>Stewardship</b>													
Visitation	Number of boats passing through locks and number of land-based visitors as an indication of the opportunity to deliver conservation oriented messages.			VG	VG	FAIR	G	<ul style="list-style-type: none"> <li>Long term data collected by the TSW.</li> <li>Rigour of data collection is an issue. Some lock stations fail to report occasionally.</li> <li>Method of estimating land-base visitors is based on formula and vehicle counts.</li> </ul>					
Eco-Certified Marinas	Level of participation in the Ontario Marine Operators Association is an indication of the level of attention paid to environmental stewardship on the Waterway.			FAIR	VG	G	G	<ul style="list-style-type: none"> <li>OMOA clearly responsible for program.</li> <li>Program based on voluntary participation by OMOA members only.</li> <li>Currently no way to determine certification level for individual marinas.</li> <li>Good awareness component to program.</li> <li>Level of participation is increasing but percentage of marinas participating is still low.</li> </ul>					
Stewardship Activity	The level of stewardship activity indicates the level of environmental conscience and efforts to address environmental issues.			VG	VG	FAIR	G	<ul style="list-style-type: none"> <li>Stewardship organizations exist at all levels from Provincial programs to local associations and volunteer groups.</li> <li>Excellent opportunity exists to deliver stewardship messages or to engage others in stewardship actions.</li> </ul>					
<b>Legend</b>													
	Acceptable		Of Concern		Impaired		Improving		Not changing		Degrading		Uncertain