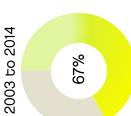
OVERALL FINDINGS 2914

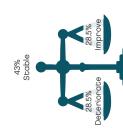
A FRAGILE BALANCE



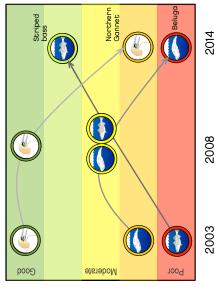
appeared in the 2003, overviews, 67% have remained in the: Of the common ndicators that 2008 and 2014

moderate-good moderate and categories.

splic equally between stable, while the rest ndicators remained 43% of the common From 2008 to 2014, deterioration and mprovement.



Evolution of some indicators



2008 2003

PARTNERS

GOVERNMENT OF CANADA

- **Environment Canada**
- Ficheries and Oceans Canada
 - Parks Canada

GOVERNMENT OF QUEBEC

- · Ministère du Développement durable, de l'Environnement et de la Lutte
 - contre les changements climatiques Ministère des Forêts, de la Faune et des Parcs
- Stratégies Saint-Laurent

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The State of the St. Lawrence Monitoring Program:

of the Canada-Quebec Agreement

established in 2003 as part

Monitoring program was

The State of the St. Lawrence

on the St. Lawrence. Since then, the partners have been pooling reports on the state and evolution

cheir expertise in their regular

available through the publication

of a series of fact sheets,

the holding of the Rendez-vous

indicator monitoring are made

The results of environmental

of the St. Lawrence River.

AN ESSENTIAL TOOL OF THE ST. LAWRENCE ACTION PLAN

The Overview 2014 innovates through its use of results integration and reporting approaches



of the Overview report every

years, and the publication

INDOVATION

Overview 2014

- Standardized visual signature Harmonized status classes
- More systematic use of criteria or reference thresholds
- Mapping information at local, sector and overall levels per indicator
 - Integration of monitoring results in an overall Pinding





2914 HIGHLIGHTS

According to the index of bacteriological and physicochimical quality (IQBP), water quality was in the moderate-good category in 2008–2010. However, the percentage of stations where the IQBP was good or satisfactory decreased from 75% in 2003–2005 to 67% in 2008–2010.





The years 2008, 2009 and 2011 resemble one another with annual average flows that are near the historical average, whereas the flows observed in 2010 and 2012 are lower. The 2008-2012 observations correspond to average to low flows.

In terms of **toxic contamination of water**, the substances of most concern are polybrominated diphenyl ethers (PBDEs), and pharmaceuticals and personal care products.



The Fluvial section and Sorel islands have a diminished richness of benthic macroinvertebrates and a higher proportion of species tolerant to pollution.

Regarding the toxic contamination of sediments, the Fluvial section between Montréal and Sorel has the largest number of most highly contaminated sediment sites and the highest number of substances exceeding criteria.



The health status of **fish communities** has remained stable overall since 1995. However, in Lake Saint-Pierre, Yellow Perch has suffered a major decline, mainly due to the degradation of its habitat.

As For **fish contamination** in the Pluvial lakes, only mercury in Walleyes and Northern Pikes From Lake Saint-Louis, and PBDEs and polychlorinated biphenyls (PCBs) in the White Suckers in Lake Saint-Pierre are still a concern.



The loss of **wetlands** due to direct human intervention has declined sharply. However, the Boucherville Islands sector is still undergoing relative drying and the wetlands of Lake Saint-Pierre sector are bordered by a low proportion of natural environments.

Among the **contaminants measured in Great Blue Heron eggs**, only PBDEs slightly exceeded the criteria at three of the four colonies analyzed.



Boucherville and Lake Saint-Pierre are the sectors most heavily affected by **invasive plants**. The most problematic species is the Common Reed.

The St. Lawrence **beluga** population is still threatened, but the situation has worsened due to a decline in abundance, high mortality of newborns in 2008, 2010 and 2012, and a decrease in the proportion of immature belugas and newborns. In December 2014, COSEWIC has assessed this population as endangered.



Striped Bass is showing encouraging signs of recovery. Its distribution, rate of growth and abundance are improving. The natural reproduction of Striped Bass demonstrates that the species is in a favorable environment; this progress marks an important milestone for the species' recovery in the St. Lawrence River.

Northern Gannets are showing signs of difficulty, with a loss of abundance and a significant decline in reproductive success. However, the concentrations of toxic contaminants in eggs are all below the criteria.



Among the **oceanographic processes**, several physical changes (milder, almost ice-free winters, early springs, and the warming of summer surface waters) have been observed in the Gulf over the past decade.

The **Shellfish waters** of the Magdalen Islands and the Lower North Shore are of excellent quality. However, shellfish waters in the Gaspé Peninsula and Lower St. Lawrence are more strongly affected by anthropogenic bacterial contamination.



Moderate

Changes in oceanographic processes have led to changes in the **phytoplankton and zooplankton communities**; these changes include early spring phytoplankton blooms and changes in the zooplankton community that Favour Atlantic species to the detriment of Arctic species.



The increased warming of surface waters in summer increases the risk of toxic algal bloom.



Among the **seabirds**, the populations of Herring Gulls, Common Murres and Razorbills are in good shape, while the Atlantic Puffin population has been declining since 1993, and Caspian Terns are still very scarce.

Moderate-Poor

Moderate-Good

Good