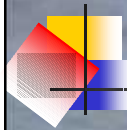


Watershed and Stormwater Management in Québec

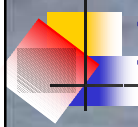


Gilles Rivard, P.Eng., M. Sc.



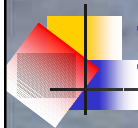
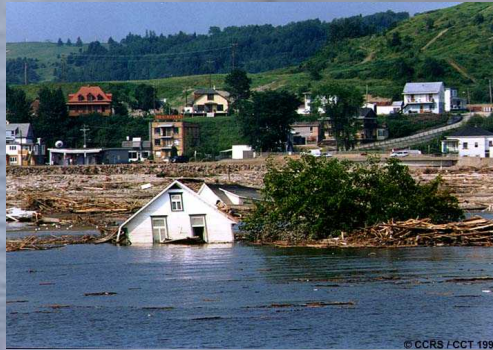
OUTLINE

- Introduction – Historical Notes
- Watershed Management
- Stormwater - Source Control



Introduction - Historical Notes

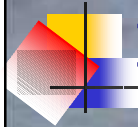
1996 – Large
scale flooding
in Saguenay



Introduction - Historical Notes

Symposium on
Water
Management
(1997)

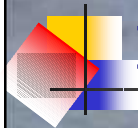
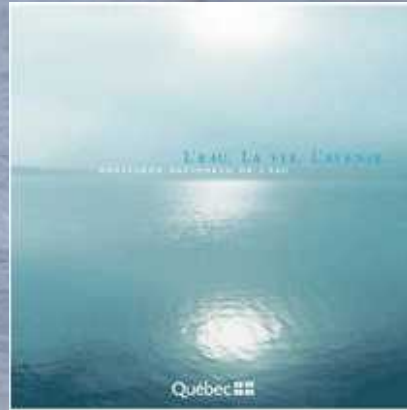
Large public
Hearings
Beauchamp
Report 2000



Introduction - Historical Notes

November 2002 –
Québec Water Policy

- Water a collective heritage
- Protection of public health and ecosystems
- Integrated and sustainable water management

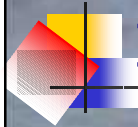


Introduction - Historical Notes

November 2002 –
Québec Water Policy

- Five key strategies
 - 16 Specific actions
 - 57 government commitments

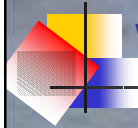




Introduction - Historical Notes

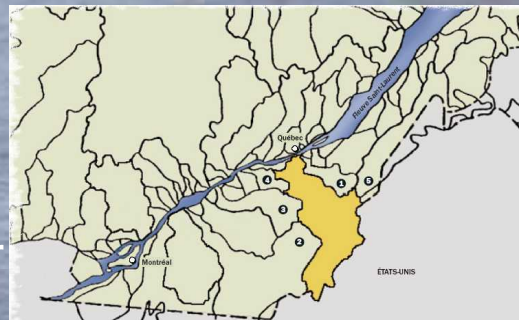
November 2002 –
Québec Water
Policy

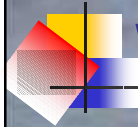
- Integrated Watershed Management
- 33 Basins



Watershed Management

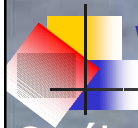
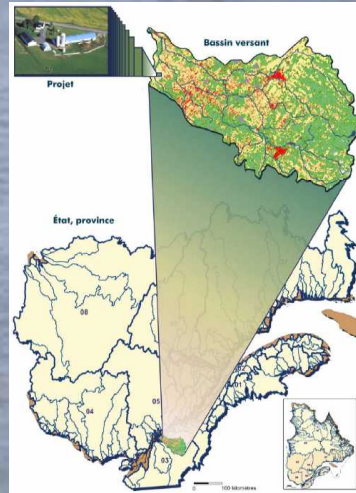
1993 – Pilot
Project :
COBARIC
(Chaudière River
near Québec
City)





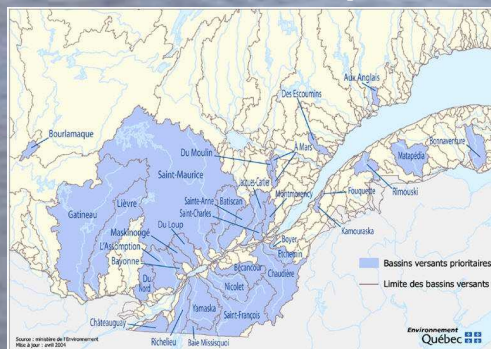
Watershed Management

1997 – Pilot
Project :
COBARIC II
Report in 2000

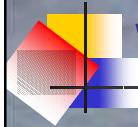


Watershed Management

Québec Water Policy 33 Watersheds
(out of 430 major ones)



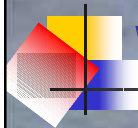
| | |
|-------------------------------|---|
| Bas-Saint-Laurent | 1. Fouquette 2. Kamouraska 3. Rimouski |
| Capitale-Nationale | 4. Jacques-Cartier 5. Saint-Charles 6. Sainte-Anne 7. Montmorency |
| Centre-du-Québec | 8. Bécancour 9. Nicolet |
| Chaudière-Appalaches | 10. Boyer 11. Chaudière 12. Etchemin |
| Côte-Nord | 13. Aux Anglais 14. Des Escuminis |
| Erie | 15. Saint-François |
| Gaspésie-Îles-de-la-Madeleine | 16. Matapédia 17. Bonaventure |
| Lanaudière | 18. L'Assomption 19. Bayonne 20. Maskinongie |
| Laurentides | 21. Du Nord 22. Du Lièvre |
| Mauricie | 23. Bâtiscan 24. Saint-Maurice 25. Du Loup |
| Montérégie | 26. Châteauguay 27. Aux Brochets- Baie Missisquoi 28. Richelieu 29. Yamaska |
| Abitibi-Témiscamingue | 30. Bourlamaque |
| Outaouais | 31. Gatineau |
| Saguenay-Lac-St-Jean | 32. À Mars 33. Du Moulin |



Watershed Management

Watershed organizations

Limited government funding
(65 000 \$ per year)

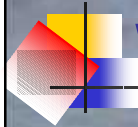


Watershed Management

General approach

Non-regulatory
Flexible
Based on local participation and collaboration





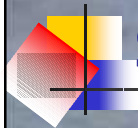
Watershed Management

Publications in
2004 by MDDEP
(Ministry of
Sustainable
Development,
Environment,
and Parks)

**Gestion intégrée de l'eau
par bassin versant :
concepts et application**



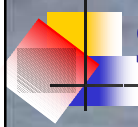
Août 2004



Stormwater Management

Old Guide for
Sewer Network
Design (1989)
Directive 004

Due for a major
revision



Stormwater Management

No specific Provincial Guidelines on
Stormwater Management

Conventional Source controls are
widely applied in urban areas
but lack of overall guidance