

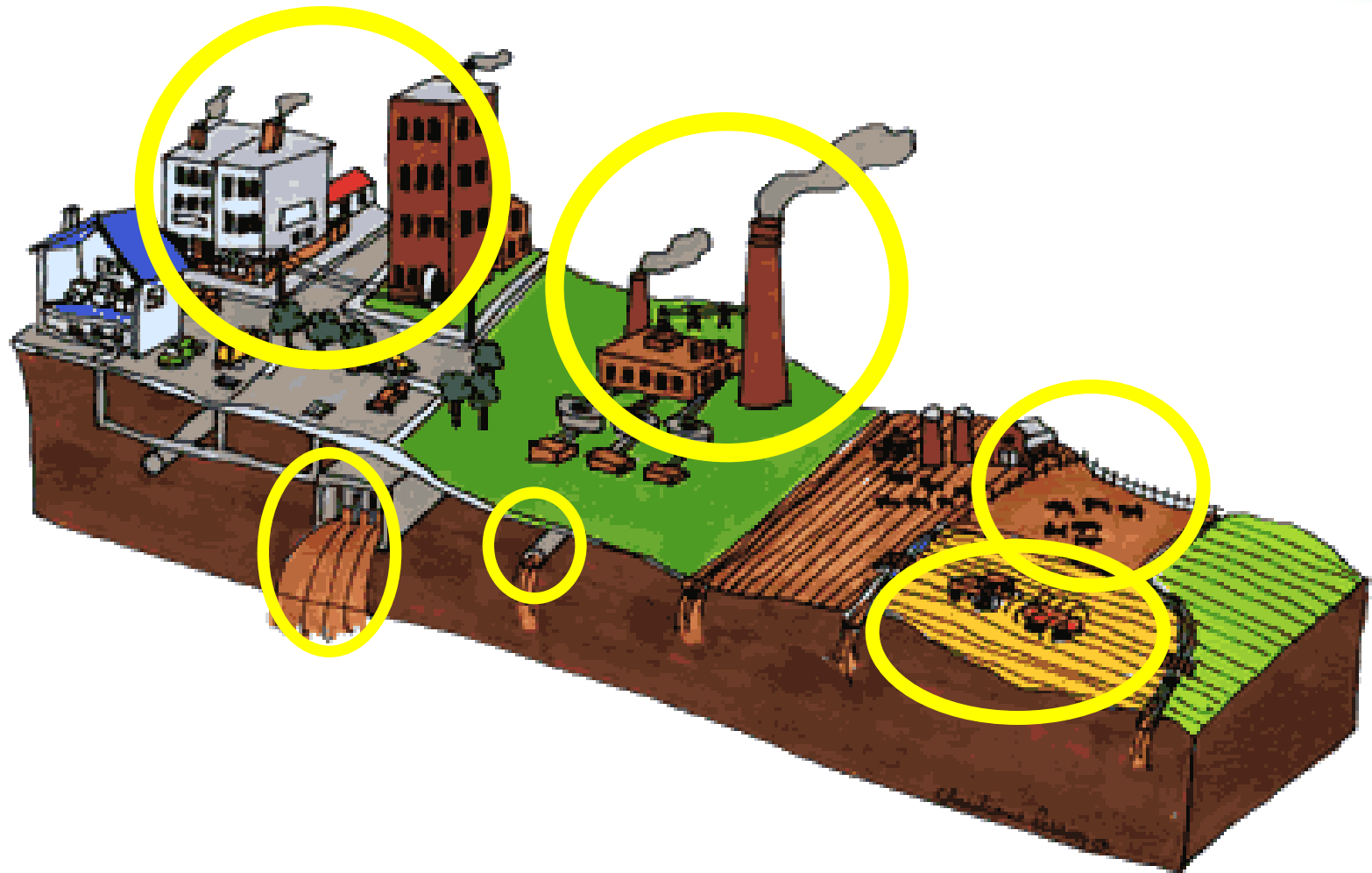
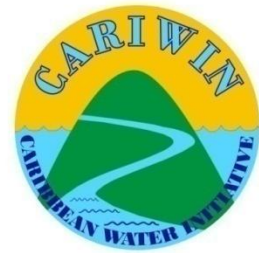
Water Quality: Laws, Policies and Regulations

CARIWIN Advanced Course in IWRM
September 18, 2007

Apurva Gollamudi
Brace Centre for Water Resources Management
McGill University



Water system inputs



Laws and regulations



- 💧 National
- 💧 Parish
- 💧 Watershed or Basin
- 💧 Community

Laws, Policies and Regulations

Example from Quebec



Environmental quality law



National Water Policy



Shoreline, coastline and floodplain protection
policy



Regulation respecting the quality of drinking
water

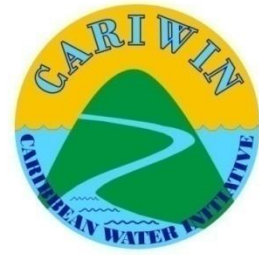


Regulation respecting groundwater catchment



Regulation respecting wastewater treatment

National Water Policy (Quebec, Nov 2002)



- 💧 Recognition of water as a collective heritage of all Quebecers
- 💧 Protection of public health and aquatic ecosystems
- 💧 Integrated and sustainable water management

Five Key Strategies (Quebec)



- 💧 Water governance reform
- 💧 Integrated management of the St. Lawrence River
- 💧 Protection of water quality and aquatic ecosystems
- 💧 Continued clean-up and improved management of water services
- 💧 Promotion of water-related recreation and tourism activities

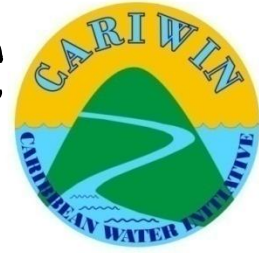
Regulation respecting the quality of drinking water



GOAL

Assure the supply of potable water to citizens

Regulation respecting the quality of drinking water



- ◆ Identifies the water quality standards and requires their respect for any water distribution systems
- ◆ Requires from distribution systems operators who deliver water to 20 people or more to respect analysis requirements
- ◆ Requires that disinfection in all water distribution services publics or private from surface water sources (June 28th 2008)
- ◆ Requires mandatory disinfection of fecal bacteria contaminated subsurface water sources

Regulation respecting groundwater catchment



GOALS

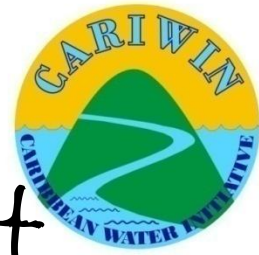
Promote the protection of groundwater resources intended for human consumption

Manage groundwater removal so it doesn't impact the neighborhood by lowering groundwater level or by decreasing the water pressure

Prevent abusive removal of water over the recharge capacity

Minimize the water removal negative impact on water bodies, populations and ecosystems

Regulation respecting groundwater catchment



- 💧 Water capacity greater than 75 cubic meters per day
- 💧 Destine to accommodate more than 20 people
- 💧 Destine to be distributed
- 💧 Destine to be sold has source water or mineral water