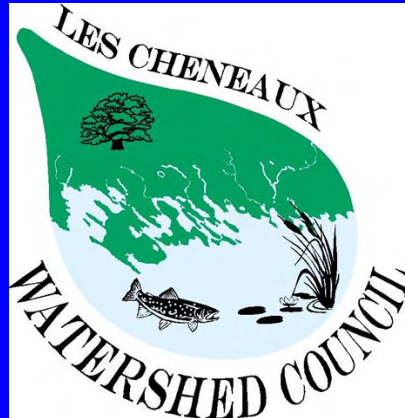
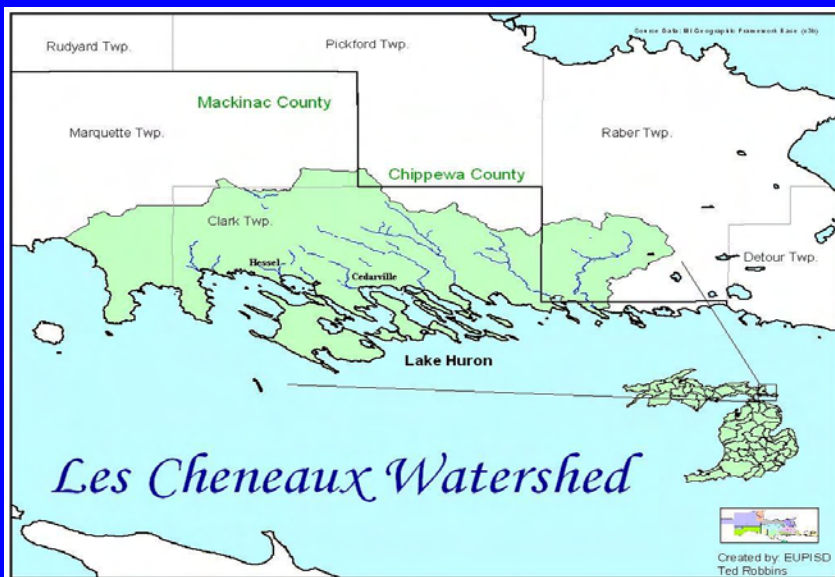


Les Cheneaux Watershed Council

- Environmental Professionals
- Business Owners
- Local Government Officials
- Landowners
- *The Les Cheneaux Watershed Council will promote the conservation, education, protection, Restoration, and sustainability of water-based resources within the Les Cheneaux Watershed*



The Les Cheneaux Watershed Project



LCWC Strategy

1. Network with Local Agencies and Citizens	2. Identify Concerns/Goals	3. Define critical pollutant/ protection areas	4. Survey watershed to confirm concerns/critical areas
5. Assess existing water quality projects, programs, and protections	6. Prioritize Pollutants, Sources, and Causes	7. Determine Objectives for Pollution Control	8. Identify Strategies (BMP's)
9. Identify I/E Strategies	10. Develop an Evaluation Plan	11. Implement	12. Pursue Funding and Membership to Sustain Implementation of Plan

Project Partners



Department of
Agriculture



Natural Resources
Conservation Service



Department of
Environmental Quality



science for a changing world



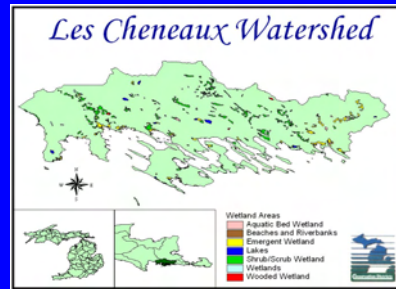
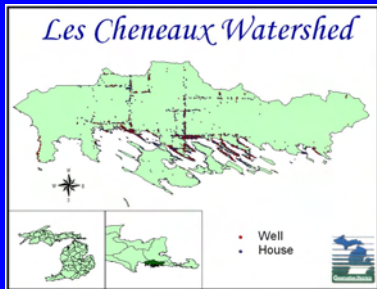
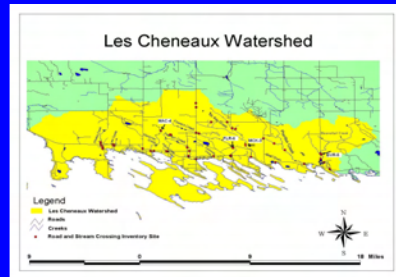
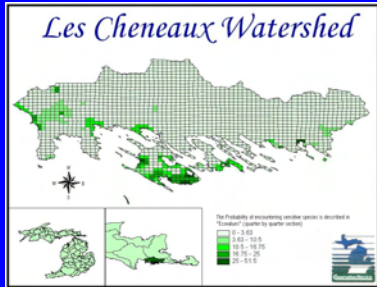
Identify Community Concerns



Identify Water Quality Goals



Define/Investigate Critical Areas



Identify Related Projects, Programs, Protection

Organization	Project, Program, Protection	LCWC Plan for Water Quality
Clark Township	Master Plan, Ordinances	Provide technical assistance to strengthen local environmental protection
MI. Dept. of Env. Qual.	Wetland Regulations	Increase education /information/enforcement
Marquette Township	Master Plan, ordinances	Provide technical assistance to strengthen local environmental protection
Local Civic Organizations	Local environmental awareness, initiatives	Increase education /information
Mack. Co. Env. Health Dept.	Soil Erosion Enforcement	Increase education /information/enforcement
Mackinac County Road Commission	Road/Stream Crossing Design	Promote new environmental technology/design
Little Traverse Conservancy	Land Protection	Facilitate increase in properties/protection

Prioritize Problems

Threatened Designated Use	Pollutant	Source	Cause
Drinking Water	Pathogens	Failing On-Site Septic Systems (OSS)	Poor Land Use Planning
Swimming	Toxins	Stormwater	Lack of Environment Awareness
Fishery	Nutrients	Failing Road/Stream Crossings (FRSC)	No stormwater controls
Navigation	Sediment	Construction/ Development(CD)	Lack of water quality regulation enforcement
Agriculture	Hydrology	Municipal Wastewater Discharge (MWD)	Unregulated Shipping Procedures (ballast discharge)
Industry	Invasive Species	Bank/Shoreline Erosion (BSE)	
		Connected Waterways	
		Inadequate Invasive Species I/E	

LCWC Objectives

Target Source	Objective
Failing On-Site Septic Systems	Improve local OSS
Stormwater	Minimize polluted stormwater
Failing Road/Stream Crossings	Improve water quality regulation
Construction/ Development	Increase public awareness
Municipal Wastewater Discharge	Stabilize eroded areas
Bank/Shoreline Erosion	Eradicate invasive species
Connected Waterways	Alternative MWD
Inadequate Invasive Species I/E	Promote shipping regulations

LCWC Implementation Plan

Task	Partner	Milestone	Funding
Provide technical assistance, funding to OSS landowners	LMAS, MDEQ	Contact all landowners/ 2009	CMI, 319, Les Cheneaux Community Foundation (LCCF)
Conduct strategic planning with LMAS to improve OSS situation	LMAS, MDEQ	Develop/adopt localized OSS alternatives for seasonal waterfront properties/ 2009	CMI, 319, LCCF, EPA
Provide innovative, latest waste water management TA to township	TWP's MDEQ LMAS	Present viable wastewater management alternative by 2008	CMI, 319, LCCF

LCWP Implementation Plan

Task	Partner	Milestone	Funding
Develop stormwater management plan with Clark Township	Clark TWP MDEQ	Plan developed year 2007	CMI, 319, LCCF, Local
Host hazardous waste clean up	Clark TWP	Host collection each summer	CMI, Local
Host land use management/development workshops	Clark TWP, Les Cheneaux Islands Association (LCIA)	At least 1 workshop each year	CMI, 319, Local
Facilitate Land Protection	Little Traverse Conservancy	At least 1 water quality conservation easement/year	CMI, 319, local

LCWP Implementation Plan

Task	Partner	Milestone	Funding
Stabilize streambank	MDEQ	Stabilize priority areas by 2009	CMI, 319, MDNR
Stabilize road/stream banks	County Road Commissions (MCRC; CCRC)	Stabilize all priority crossings by 2010	CMI, 319, Mackinac/Chippewa Co.
Water Quality Monitoring	Lake Superior State University	Develop monitoring plan by 2007; Implement each year	CMI, 319, MDEQ, Local
Information/Education	LSSU, Clark TWP MDEQ, LMAS	Ongoing development of brochures, Radio/TV ads, newsletters	CMI, 319, County, Local

Evaluate LCWC Success

Task	Partner	Milestone	Funding
Social Survey	LSSU, Mackinac Co.	Initial survey 2006; Follow up survey 2009	CMI, 319, Local, LSSU
Monitoring	LSSU, Les Cheneaux Schools (LCCS)	Monitoring plan 2007; Implement each year	CMI, 319, Local, LSSU
Focus Group	LCIA, Chippewa/East Mackinac Conservation District	Conduct 1 evaluation meeting with leading groups each year	CMI, 319, Local
Interviews	All partners	Conduct evaluation interviews with each LCWC member (50-100) by 2009	CMI, 319, Local
Photographs	MCRC, CCRC	All potential priority sites photographed before and after treatment	CMI, 319, Local

Involvement

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Council
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