



INDIANA LAKE MICHIGAN COASTAL PROGRAM

<http://www.in.gov/dnr/lakemich/>

Purpose

The purpose of the Indiana Lake Michigan Coastal Program is to enhance the State's role in planning for and managing natural and cultural resources in the coastal region and to support partnerships between federal, state, and local agencies and organizations. The Indiana lake Michigan Coastal Program relies upon existing laws and programs as the basis for achieving its purpose.

Vision

The vision of the Lake Michigan Coastal Program is to facilitate the coordination of coastal resource protection, and preservation through accountable and efficient planning, practice and stewardship.

LMCP Goals

- *Provide technical and financial assistance to State, local and regional government and non-government organizations to protect, preserve and properly manage coastal resources.*
- *Implement program documents through coordination of networked partners.*
- *Maintain a transparent and comprehensive program through regular self assessment and public involvement.*
- *Be positioned to take advantage of emerging opportunities and to address emerging threats.*
- *Empower coastal communities to become active stewards of coastal resources.*

Program Area

- Whiting
- East Chicago
- Hammond
- Munster
- Highland
- Griffith
- Dyer
- Schererville

- Gary
- Merrillville
- Crown Point
- Lake Station
- New Chicago
- Hobart
- Winfield

- Ogden Dunes
- Dune Acres
- Porter
- Burns Harbor
- Portage

- Beverly Shores
- Chesterton
- Valparaiso

- Michiana Shores
- Long Beach
- Michigan City
- Town of Pines
- Trail Creek



Education Outreach Coastal Services Center (CSC)



**Onsite
Training**



**Online
Instructor-led
Training**



**Online
Self-guided
Training**

PERIODICALS



PUBLICATIONS



REPORTS



<http://www.csc.noaa.gov>

TAPP

Technical Assistance Planning Program



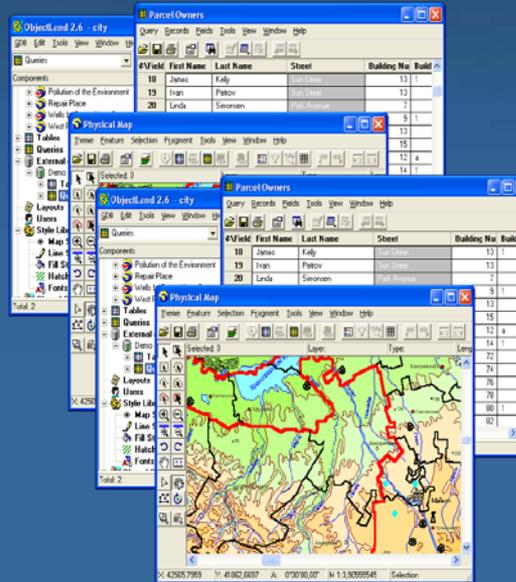
Sergio Mendoza, Coastal Resource Planner

GIS Map Layers

Indiana Shoreline



2012
Data Gathering



2013
Conversion



2014
GIS Map Layers

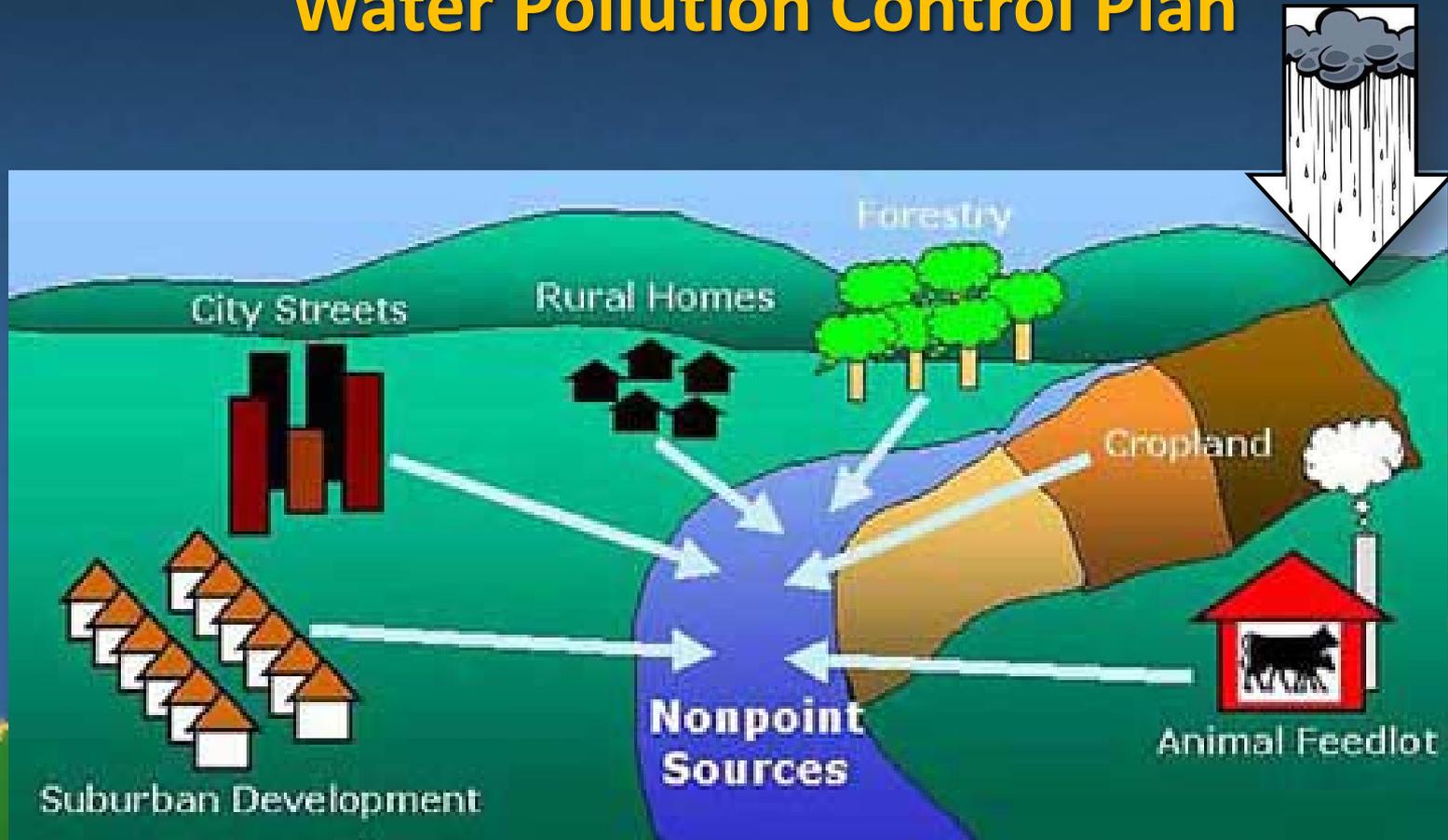
Natural/Ecological Resources Technical Assistance

- Natural Area Restoration Planning and Monitoring
- Invasive Plant Control Recommendations
- Property Inspections for Potential Natural Areas
- Native Plant Species Recommendations



Derek Nimetz, Regional Ecologist

Lake Michigan Coastal Nonpoint Water Pollution Control Plan



***GOAL – To Improve Coastal Water Quality & Habitat
Protecting our drinking and recreational waters, now and in the future***

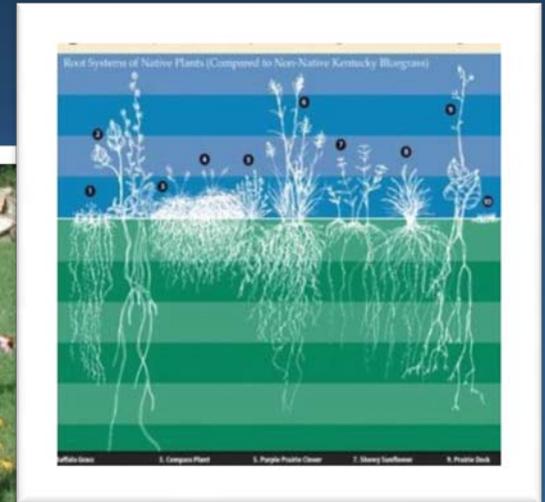
Dorreen Carey , Special Projects Coordinator

Slow it Down, Spread it Out, Soak it In



Green Roof

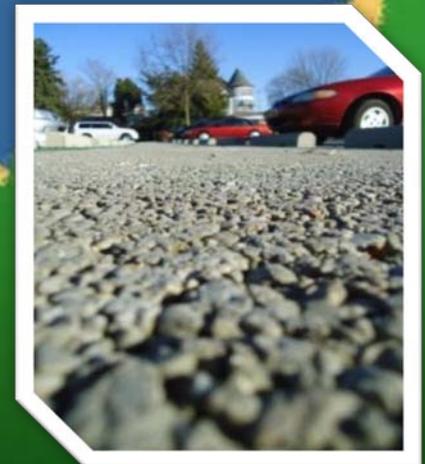
Rain Garden



Trees



Bioswale

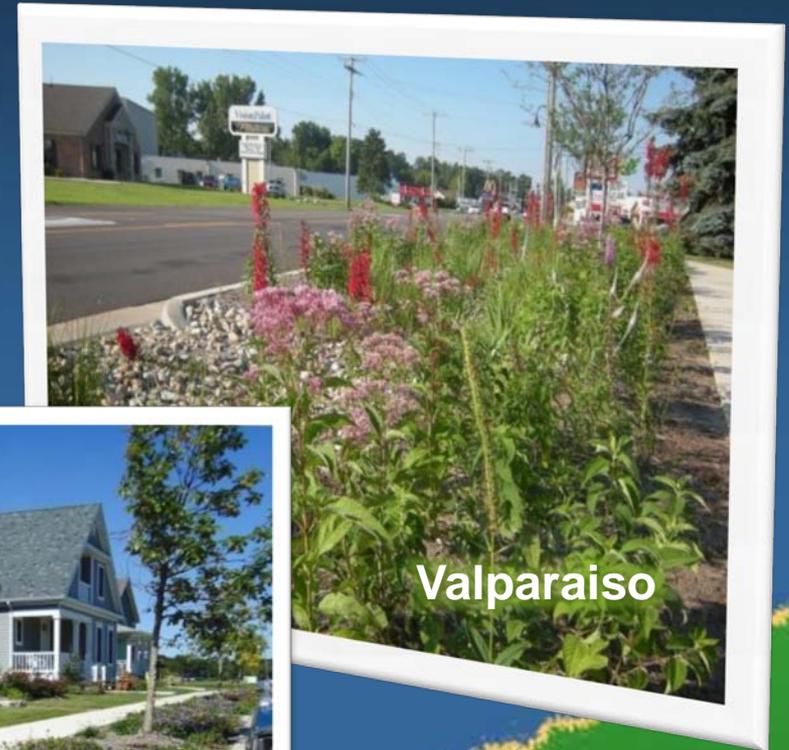


Pervious Pavement



Rain Barrel

Using Low Impact Development (LID)



An approach to land development or redevelopment that works with nature to manage stormwater and prevent water pollution

Watershed Planning

DEER RIVER-BURNS WATERWAY WATERSHED fact sheet

The Lake Michigan Coastal Program supports coordination and partnerships among local, state, and federal agencies and local organizations for the protection and sustainable use of natural and cultural resources in the Lake Michigan region. The Little Calumet-Galien Watershed, encompassing the entire area below, is the focus of the coastal program's Nonpoint Source Pollution control efforts.

County: Lake
 Acres: 115,142
 Waterway Miles: 213.34
 Impaired Waterway Miles: 70.96, 33%

State-listed impairments: Mercury, PCB's, E.coli, Biotic Communities, Cyanide, Siltation
 Source: IDEM 2008 303(d)

Major Streams: Porter-Burns Waterway, Deep River, Little Calumet River, Duck Creek, Willow Creek, Deer Creek

Hydrologic Unit Code HUC 10 (shown in map) 0404000105



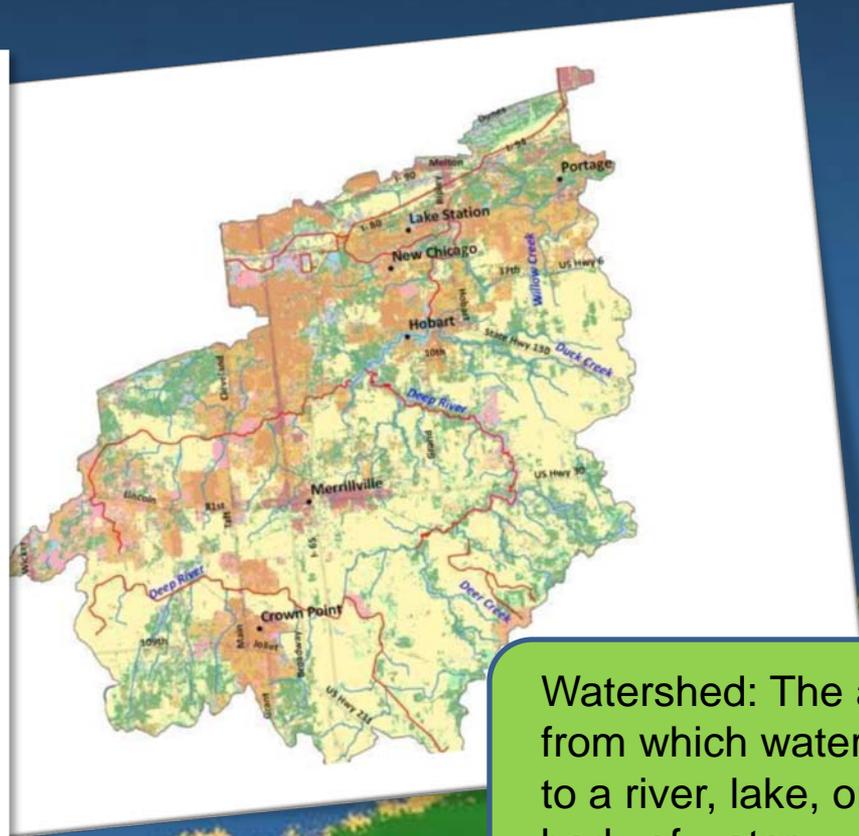
Management Efforts in the Watershed

Deep River/Turkey Creek Watershed Management Plan Year: 2002 Hydrologic Unit Code (HUC): Plan completed at the 11-digit level. 04040001040 Plan Coordinator: City of Hobart Contact Information: 414 Main Street Hobart IN, 46342 Available at: http://www.city.hobart.in.us/16111065145437387/site/default.asp	<p>Goal 1: Minimize deposition of new sediments into Lake George</p> <p>Goal 2: Improve water quality upstream of Lake George</p> <p>Goal 3: Improve water quality education</p> <p>Goal 4: Eliminate illegal discharges/failing septic systems</p> <p>Goal 5: Promote consistency among communities</p>
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E. Coli: The Deep River/Burns Waterway watershed has been found to be impaired for E.coli. E.coli is a bacteria associated with the intestinal tract of warm-blooded animals. The presence of E.coli in water is a strong indication of the presence of sewage or animal waste contamination. Sources of E.coli can be, but are not limited to, runoff from animal pastures and livestock pens, poorly functioning septic systems, runoff from areas with high concentrations of pet waste, combined sewer systems (a sewer receiving both intercepted surface runoff and municipal sewage), illicit discharges, and natural wildlife.

Biotic Communities: Instream habitat ratings suggest that channel modifications have diminished the ability of the Deep River/Burns Waterway Watershed to support viable biotic communities, leading to a state-listed impairment. Biotic communities are all the interacting organisms living together in the same habitat. Macroinvertebrates, or animals without backbones, make up much of the aquatic biotic community in rivers and streams. They are important indicators of environmental change because they can indicate water quality.

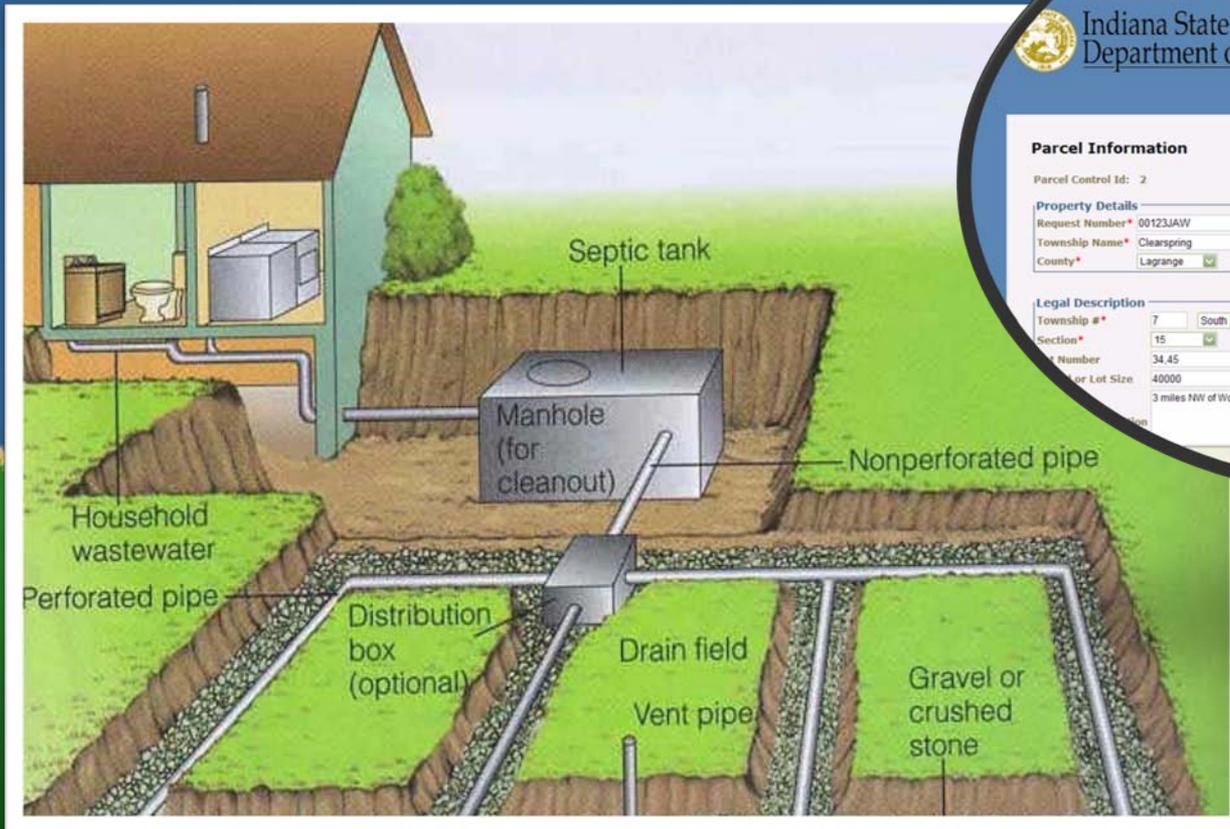
PCBs, Mercury, & Cyanide A Fish Consumption Advisory is in effect for a portion of the Deep River/Burns Waterway Watershed due to PCBs, Mercury, and Cyanide. Polychlorinated Biphenyl (PCB) belongs to a broad family of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were used in hundreds of industrial and commercial applications until they were banned in 1979. Products from that period still contain PCB's, which can be released into the environment from poorly maintained hazardous waste sites, illegal or improper dumping of PCB wastes, leaks or releases from electrical transformers containing PCBs, and disposal of PCB-containing consumer products into landfills not designed to handle hazardous waste. Mercury is a chemical most often emitted in the production of energy from coal fired power plants. Mercury can settle into our watersheds and is a common cause of fish consumption advisories in Indiana. Cyanide is a chemical commonly used in industrial manufacturing that can end up in drinking water if not properly disposed.



Watershed: The area from which water flows to a river, lake, or other body of water



Septic System Database and Operational Improvement Program



The screenshot shows the Indiana State Department of Health's Wastewater Information System Tool interface. The page includes a navigation menu with options: Home, Parcel, Complaint, and Admin. The main content area displays the following information:

Parcel Information [Back to Parcel List](#)

Parcel Control Id: 2

Property Details

Request Number*	00123JAW	Created Date	8/7/2009
Township Name*	Clearspring	Last Updated Date	8/25/2009
County*	Lagrange		

Legal Description

Township #*	7	South	Range #	4	East
Section #	15		Subdivision		
Block Number	34.45		Parcel Number	123-345-567-2344	
Area or Lot Size	40000	Square Feet	Zoning Classification	45	

3 miles NW of Wolcottville on Amish Hill Drive

INDIANA CLEAN MARINA

Indiana Clean Marina Guidebook

Environmentally-Friendly Practices to Control Nonpoint Source Pollution & Protect our Lakes and Rivers




Indiana Clean Marina Program - Designated Clean Marinas

History | Marinas | Boaters | Designated Clean Marinas | Fees and Events | Guidebook

These facilities meet the rigorous pollution prevention standards of the Indiana Clean Marina Program and have voluntarily adopted measures to control pollution associated with marina operations. This designation is a testament to the marina facility's efforts to do its part to keep Indiana's inland and coastal waterways pollution-free.

- The Hammond Marina**
 751 Casino Center Drive
 Hammond, IN 46320
 219-958-7678
www.thehammondmarina.com/marina/index.htm
 Designated: 9/15/09
- Sarasota Point Marina**
 East Street & Trail Creek
 Michigan City, IN 46360
 219-872-1712
www.sarasotamarina.com/
 Pledged: 8/20/09 Designated: 7/7/10
- Washington Park Marina**
 200 Heisterman Harbor Dr.
 Michigan City, IN 46360
 219-872-1712
www.washingtonparkmarina.com/
 Pledged: 8/20/09 Designated: 7/7/10
- Portage Public Marina**
 1250 Indiana Blvd
 Portage, IN 46368
 219-753-0833
www.ci.portage.in.us/department/CFO/
 Pledged 2/13/09 Designated: 4/8/2011

Pledged Marina Facilities

The following facilities have pledged to help Indiana's inland and coastal waterways pollution-free and to pursue designation as an Indiana Clean Marina within one year:

- Marina Shores**
 8150 Cutha Harbor Drive
 Portage, IN 46358
 219-753-2600
www.marina-shores.com/
 Pledged 6/24/09
- Trail Creek Marina**
 700 E. Michigan Blvd
 Michigan City, IN 46360
 219-872-1712
www.econgarage.com/

<http://www.in.gov/dnr/naturereserve/4747.htm>

LMCP Grant Program

The Coastal Grants program provides funding to communities and organizations that seek out social, economic, and environmental solutions that promote partnerships and balance the use and protection of the coast's valuable, yet fragile, resources.

Funding for the Lake Michigan Coastal Grant Program is provided by the National Oceanic & Atmospheric Administration, Office of Coastal Resource Management, through the Coastal Zone Management Act of 1972.



Maggie Byrne, Grant Specialist

Grants Program

Indiana
makes available
approximately
\$600,000

annually to conduct a
competitive grants
program administered

by
DNR LMCP

in cooperation with
National Oceanic and Atmospheric Administration,
Office of Coastal Resource Management

**Large
Grant**

**Small
Grant**

Eligible Applicants

- Units of local government
- Area-wide agencies
- State agencies
- Colleges, universities
- Conservancy districts
- Port Authorities, Basin Commissions
- Non-profits (special conditions apply)



Large Grant

Funding Categories :

- Land Acquisition
- Low Cost Construction
- Education and Outreach
- Planning/Coordination/Management
- Applied Research
- Emerging Issues

Funding Criteria:

- \$150,000 max for acquisition request
- \$100,000 max per Low Cost Construction grant request
- \$50,000 max for all other categories
- 1:1 Match Rate(Reimbursement)
- 18 month project completion process
- Annual application process

Required Match 1:1

- Cash – funds within your organization/agency's budget, set aside specifically for the project; cash donations from outside of your organization
- In-kind – personnel or other expenses used to complete the project, volunteer time, donations of goods or services directly related to the project
- Local, State, Private Funds – may be grants from these sources
- Land (value) donation, such as a Conservation Easement or Deed Restriction (only for some types of projects)

NO FEDERAL FUNDS MAY BE USED AS MATCH
Please be sure to check your source!

Large Grant Timeline

June

Priority
Setting

July

Request for
Pre-Proposal

Aug.

Grant
Workshops

Sept.

Pre-Proposal
Deadline

Oct.

Committee
Reviews
CAB
Selection

Jan.

Full
Application
Due

Feb.

Applications
review &
approvals

March

NOAA
Approval

April

Environ-
Mental and
SHPO
Reviews

July

Grant Funds
Released

Small Grant

Funding Categories:

- Outreach and Education
- Resource Management

Funding Criteria:

- \$5,000 Maximum
- 1:1 Match (reimbursement)
- 6 Month completion process
- Rolling application process

Examples of Ineligible Projects

- Infrastructure
- Recreational facilities
- Trail construction
- Wetland, habitat restoration or contaminated site clean-up that is required as a condition of a permit or regulatory action
- Construction on privately owned lands
- Parking lots and roads
- Dredging
- Routine maintenance

Low Cost Construction Public Access



Winding Creek Cove, Michigan City
Fishing Access to Trail Creek

Low Cost Construction Natural Area Restoration



Little Calumet River Prairie and
Wetlands Restoration, IUN

Low Cost Construction

Native Landscaping



Native Landscaping
Demonstration Project
NIRPC Offices, Portage



Land Acquisition



**Sammons Acquisition At Oak Ridge
Prairie County Park, Lake County Parks**

Planning / Coordination / Management

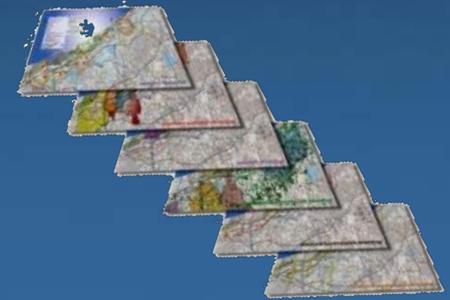
Coastal Program

NIRPC

RDA



Phase One



Phase Two

The Marquette Plan, NWI

Planning / Coordination / Management



Downtown Plan, Hobart

Planning / Coordination / Management



Comprehensive Drainage Study, Porter County

Education and Outreach



Students planted, filled, moved sod, mulched...and made a difference



Protecting and Restoring Great Lakes Biodiversity
Project No. CZ008

2010-2012

Funding for this program was provided in part by the National Oceanic and Atmospheric Administration and the Indiana Department of Natural Resources, Lake Michigan Coastal Program.



Save the Dunes

444 Barker Road, Michigan City, IN 46304 ♦ (219) 879-3564 ♦ office@savedunes.org

Protecting and Restoring Great Lakes Biodiversity, Save the Dunes



**Grant Application Ideas?
Technical Assistance Opportunities?
Questions?**



**INDIANA
LAKE MICHIGAN
COASTAL PROGRAM**

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<http://www.in.gov/dnr/lakemich/>