

Lake Michigan Coastal Program

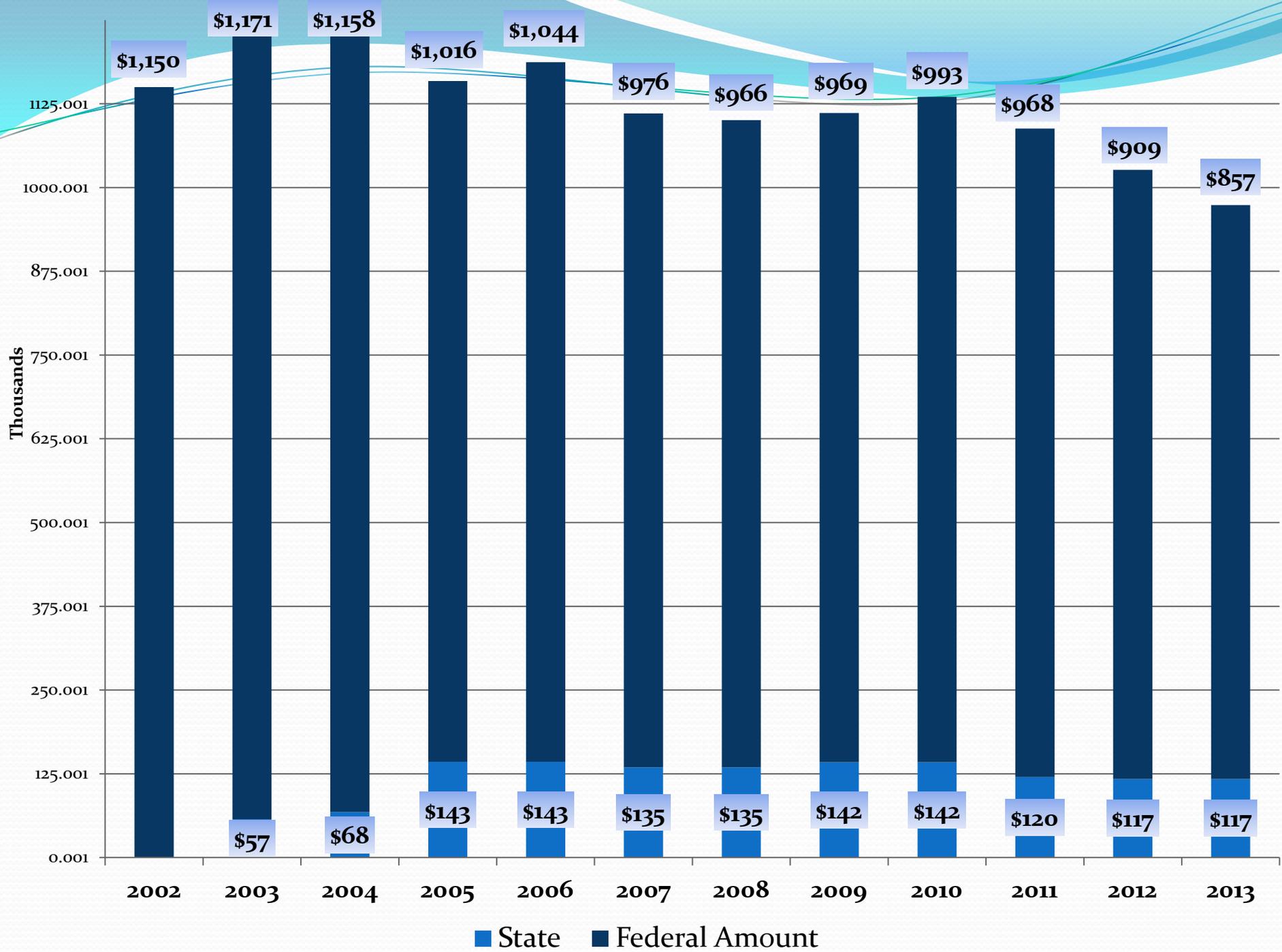
Indiana Department of Natural Resources
Division of Nature Preserves

2013 Year in Review



Roadmap

- Mike
- Sergio
- Maggie
- Derek



All about the \$

- Budget Oversight and Administration – total \$4.62 M
 - 2010 NOAA - \$1,079,000
 - 2011 NOAA - \$1,056,000
 - 2012 NOAA - \$980,000
 - 2013 NOAA - \$856,500
 - 2013 State - \$117,313
 - LaMP / RAP - \$265,709
- Quarterly or Semi-annual reporting progress and financial





Program Planning / Review

Federal Consistency

Indiana Register

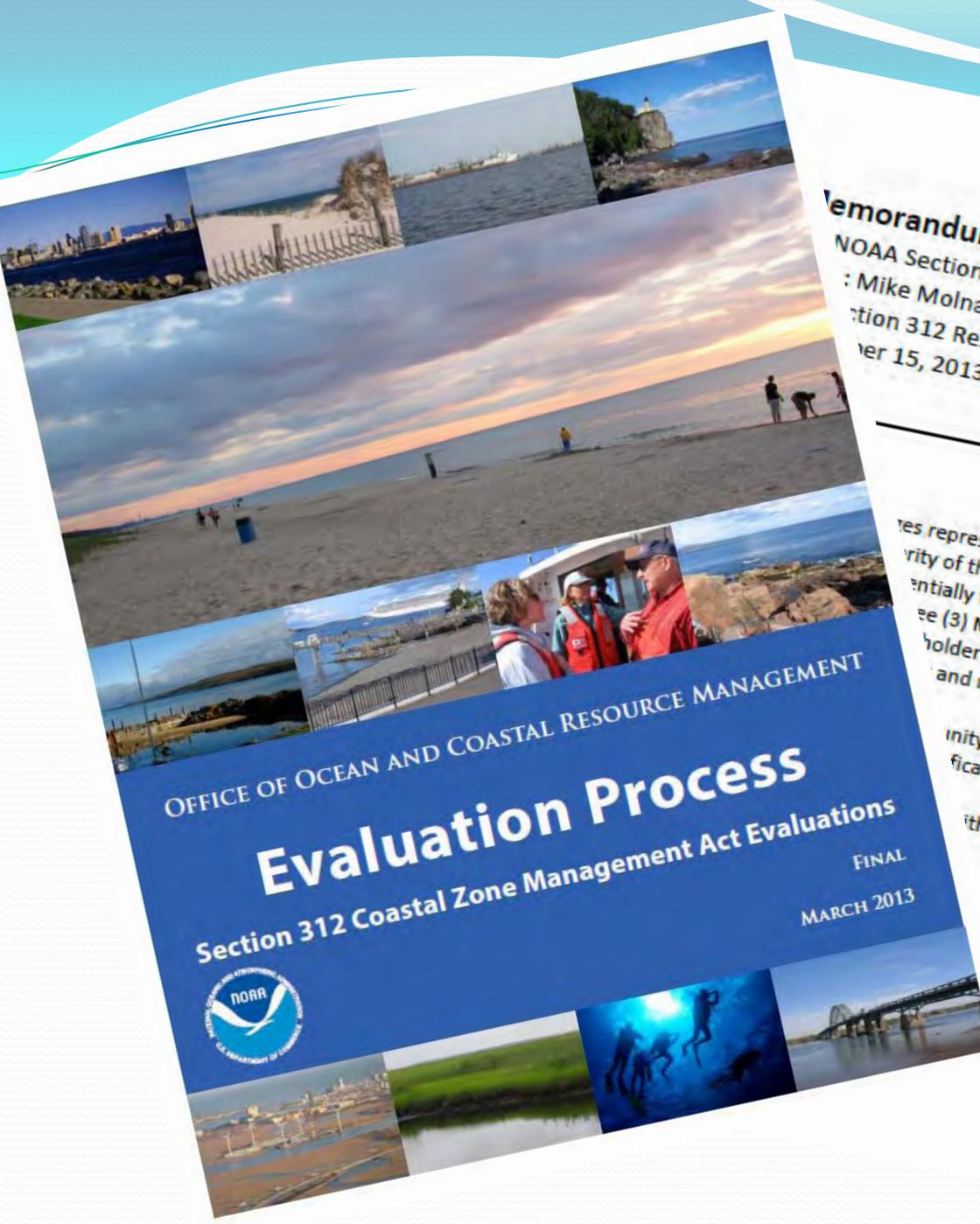
NATURAL RESOURCES COMMISSION

Information Bulletin #43 (Second Amendment)
June 1, 2013

SUBJECT: Coastal Zone Management Federal Consistency Reviews

A. Purpose

This information bulletin summarizes implementation of "federal consistency" reviews by the Indiana Lake Michigan Coastal Program (the "LMCP"). The reviews are coordinated through the Environmental Unit (the "Environmental Unit") of the Division of Fish and Wildlife, Department of Natural Resources. Pursuant to "federal consistency" requirements, a federal action that has reasonably foreseeable effects on a land or water use of the Indiana Lake Michigan Coastal Program Area must be consistent with the state laws described in Indiana's program. Federal activities are those that (1) are performed by a federal agency or its contractor; (2) require a federal license or another form of federal approval; or, (3) provide federal financial assistance to state or local government. The purpose of this information bulletin is to maximize benefits to the Lake Michigan Coastal Area while minimizing burdens to the state and its citizens, and the bulletin should be liberally construed to accomplish this purpose.



Memorandum

NOAA Section 312 Review Team
: Mike Molnar, Indiana LMCP Program Manager
Section 312 Responses
November 15, 2013



Responses represent the LMCP response to the NOAA Section 312 questions. Please verify the responses are contained within this PDF document. The answers essentially to match the order of the Evaluation Guidance. Do to formatting see (3) MS Excel Spreadsheets in response to: #2 Staff List; #3 Match for Placeholder and Partner List. We include placeholder pages in the document and make note of the appropriate file name for each question.

Ability to provide responses to your questions. Please feel free to clarification on responses provided or any additional information.

With you in the near future to set up the final review timeline.

DATE	TASK
May 1- 15, 2014	Set up meetings - calls w/state program to plan meetings (2-6 meetings).
May 16 – 30, 2014	Continue to set up meetings with stakeholders
June 2- 16, 2014	Conduct meetings - hold stakeholder meetings, meetings with staff, and public meetings
July 30-Aug 30, 2014	State reviews and comments on draft findings

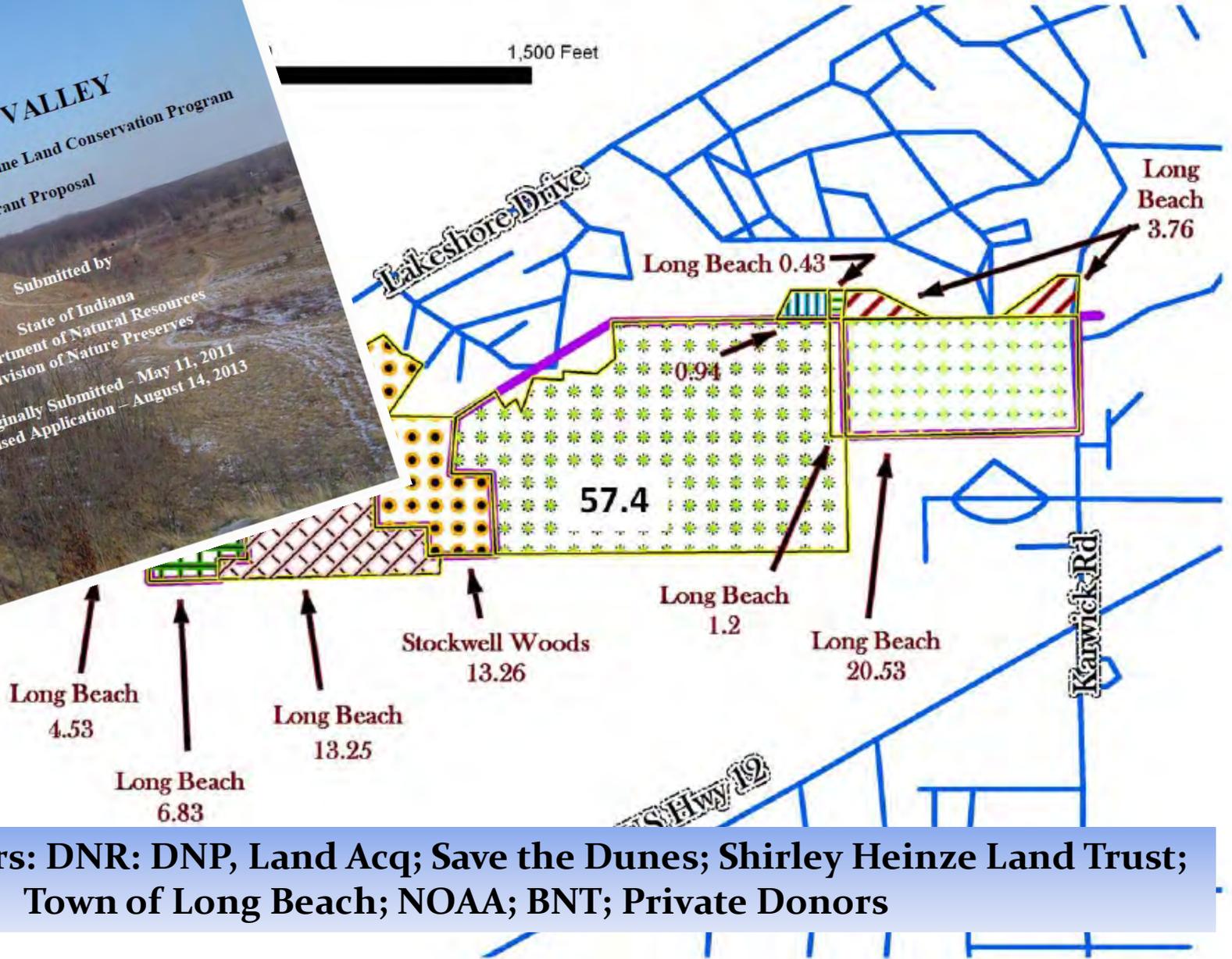


Project Management

MOON VALLEY

2013 Coastal and Estuarine Land Conservation Program
Grant Proposal

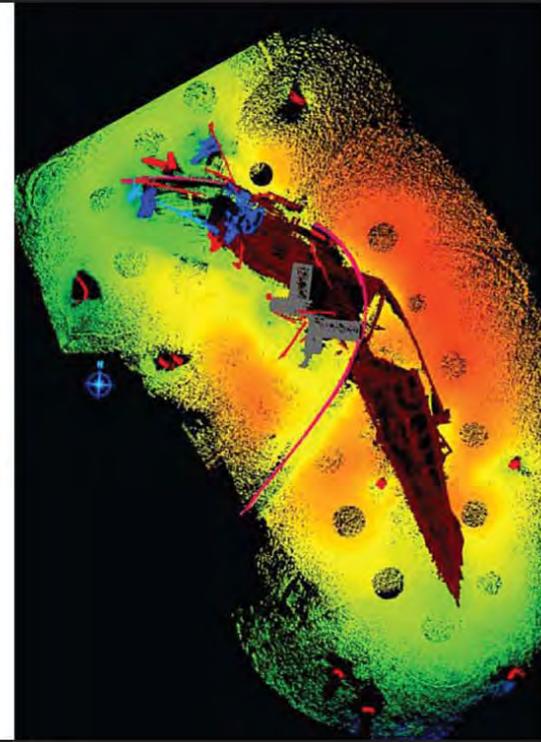
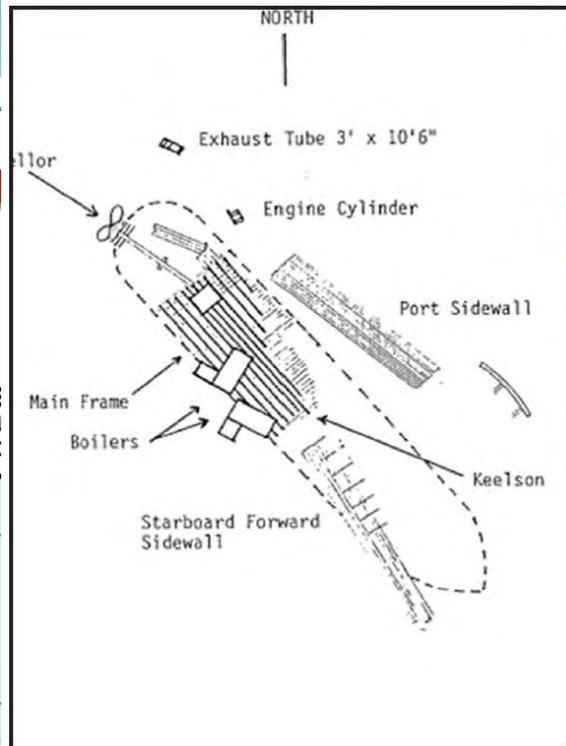
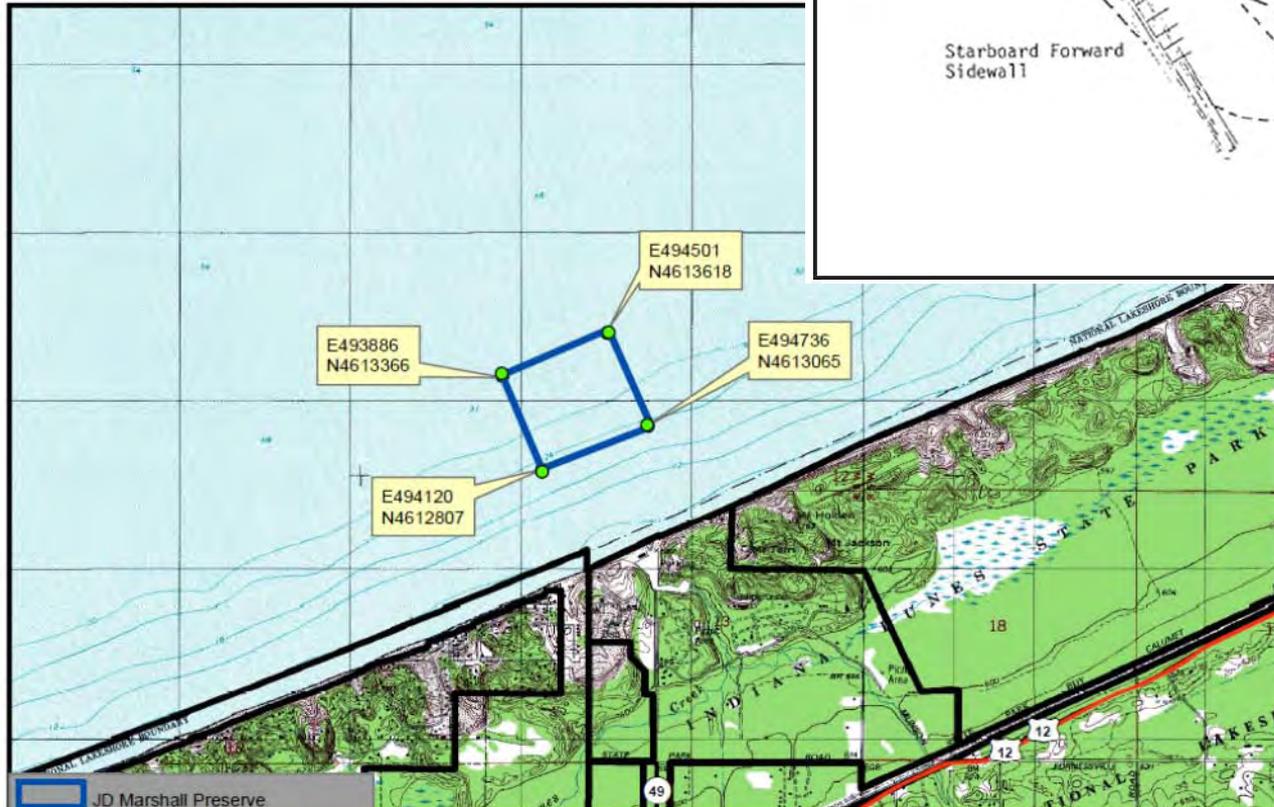
Submitted by
State of Indiana
Department of Natural Resources
Division of Nature Preserves
Originally Submitted - May 11, 2011
Revised Application - August 14, 2013



Partners: DNR: DNP, Land Acq; Save the Dunes; Shirley Heinze Land Trust; Town of Long Beach; NOAA; BNT; Private Donors

Indiana Lake Michigan Underwater Archaeology Resources Project

JD Marshall Nature Preserve
 County: Porter
 Size: 100.0 acres



Partners: DNR: DHPA, State Parks and Reservoirs, DNP, Law Enforcement, Fish and Wildlife; NOAA; CCRG; Indiana Dunes Tourism

Outreach and Education

International Association of Great Lakes Research Conference 2013

State and Provincial Responses to Compact / Agreement Water Conservation Mandate – Who, What, How, and Why?



LAKE MICHIGAN COASTAL AWARENESS MONTH

Celebrate Your Coast: Fresh ♦ Water ♦ Fun!

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
					1 Krueger Water Festival Jammin for the Dunes Glamping Weekend	
2 Glamping Weekend	3	4	5 Mt. Jackson Bound!	6	7 Michigan City First Friday	8 National Get Outdoors Day Picnic Michigan City Litter Pick Up Event Old Lighthouse Museum 40th anniversary Shipwreck Stories W.G. Jackson Cruises Banana Slug String Band Encore Performance
9 Seventh Annual Trail Creek Fun Float Old Lighthouse Museum 40th anniversary W.G. Jackson Cruises	10	11 Ghost Town Tour	12	13	14 Aspiring Artists Adventure	15 Robinson Lake Paddle Hobart Marsh Complex Hike Singing Sands Star Show
16	17 West Beach Succession Hike	18	19	20 Bird Banding Demonstrations	21	22 Deep River Paddle
23	24	25	26	27 Gary Clean Water Reception & Award	28 Ghost Town Tour	29 Gary Clean Water Celebration

Project Design & Evaluation Workshop

Indiana Dunes State Park Nature Center Auditorium

March 5-6, 2013 – Two Day Session
March 5 – 8:30 – 4:30
March 6 – 8:30 – 4:30

Have **you** ever started a project and thought "We didn't plan for that...?"
Have **you** ever struggled to measure the effectiveness of a project?
Have **you** worked to incorporate accountability and project management into daily work?
Do **you** want a project that is better developed and managed?
Then this Workshop is for you!

ADOBE CONNECT™

TimeZone (US/Michigan)



Event Info | Event Registration

Shipwreck Avocational Training

Wednesday, June 26, 2013 2:15:00 PM EDT - Monday, June 26, 2013 3:15:00 PM EDT

Fields marked with (*) are mandatory.

Email Address *

First Name *

Last Name *

View

Reset

If you've never used Adobe Connect, get a quick overview: <http://www.adobe.com/products/adobeconnect.html>
Adobe, the Adobe logo, Acrobat and Adobe Connect are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or in other countries.

STATE COASTAL PROGRAMS AND NOAA: PARTNERS FOR HABITATS

Across the United States, **95,000 miles** of coastline serves as the foundation for local and national ecosystems and economies. Effectively protecting, restoring and managing these habitats requires an intricate network of government, private and academic partnerships working together to preserve complex coastal habitats while balancing the need for increased development.

For more than 40 years, coastal programs in U.S. states, territories and commonwealths have been part of a national coastal zone management effort coordinated by the **National Oceanic and Atmospheric Administration (NOAA)** to protect and restore coastal resources, protect communities from coastal hazards, and promote economic development along our nation's ocean and Great Lakes coasts. These State Coastal Programs have experience coordinating with communities and user groups to help plan and carry out activities in coastal areas.

KEY PARTNERS

State Coastal Programs are key partners with NOAA because they have local knowledge and helpful tools and skills to contribute. This comes from years of coordinating restoration projects on the coast, facilitating land acquisition projects, and leveraging money and other resources for coastal projects. They educate and provide technical assistance to landowners and coastal communities to make more informed land use decisions. Many state programs also coastal permitting programs to ensure activities that have impacts on the coast are consistent with statewide priorities. Through these activities, State Coastal Programs have developed relationships that enable them to identify and coordinate with stakeholders whose cooperation is often necessary to make habitat projects succeed. Stakeholders include tribes, port authorities, marinas, universities, local communities, and businesses dependent on healthy coasts.

Image of Abak Quality TNC, Shadok River, Southeast Expedition





10 / 40

6217 Nonpoint Source Coordination 2013

INDIANA
LAKE MICHIGAN
COASTAL PROGRAM



Ongoing Nonpoint Source Coordination Projects 2013

- **Septic System Coordination Work Group – Partnership for the development of a regional outreach and action plan on impacts of failing septic systems. Grant application to Urban Waters for Septic Specific Water Quality Testing and Targeted Septic Awareness Focus Groups.**
- **IDEM 319/LMCP 6217/NRCS/SWCD Coordination for meeting Coastal Nonpoint Pollution Control Program management measures.**
- **LMCP/IDEM Clean Marina Program to support designated Clean Marinas and provide technical assistance to additional coastal area marinas to meet designation requirements.**
- **Work with Lake Michigan tributary watershed groups to incorporate Coastal Nonpoint Program management measures and provide technical assistance as needed.**
- **Response to EPA/NOAA Conditions for Approval for Indiana Coastal Nonpoint Pollution Control Program.**



May – June 2013
Design & Installation of
Demonstration Rain Garden and
Bio-Swale with help of park staff
and interns at Annex Office in
Indiana Dunes State Park

Come Visit the Rain Gardens at the
Annex - Summer 2014



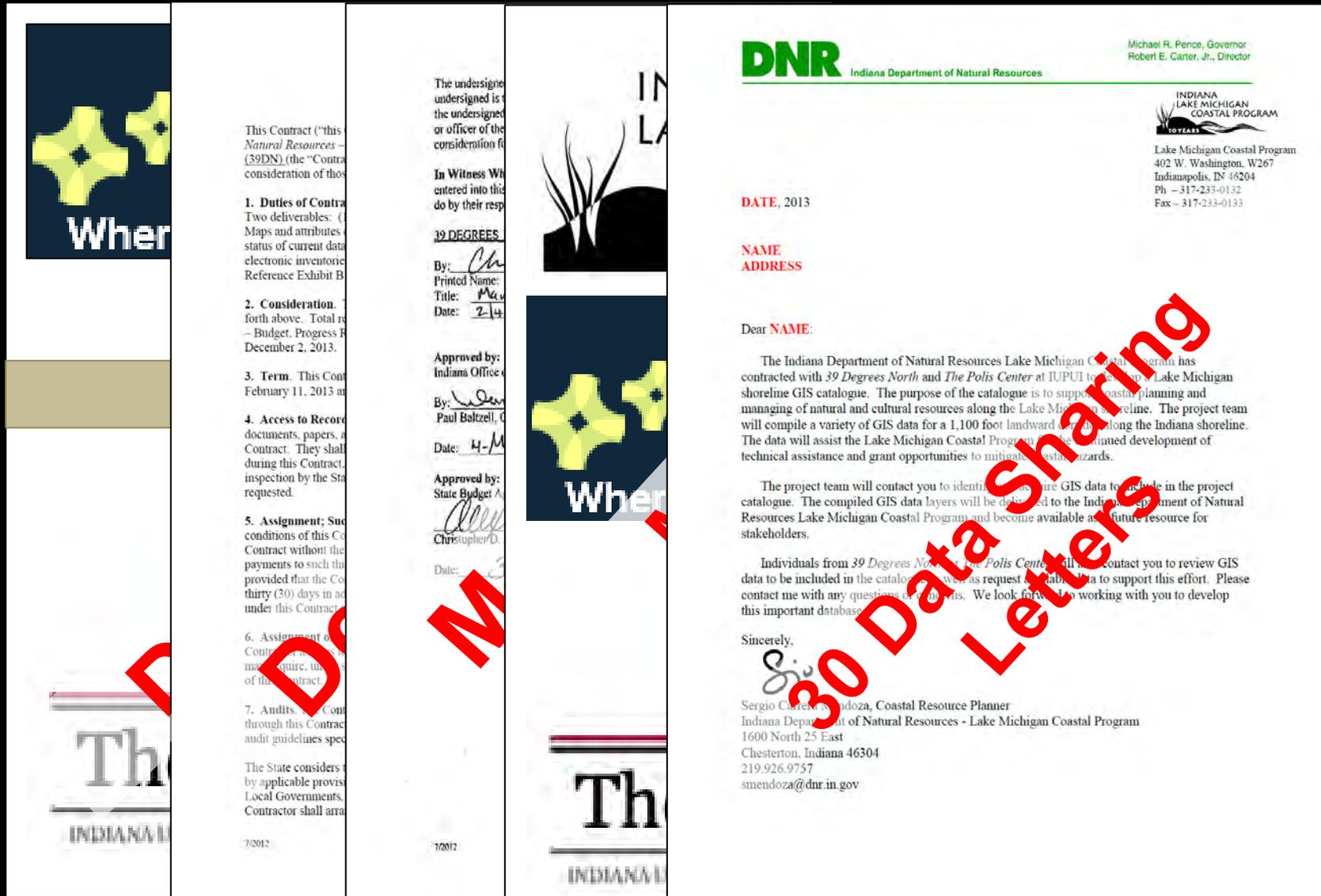
TAPP

INDIANA
LAKE MICHIGAN
COASTAL PROGRAM



2013 TAPP Review

GIS Mapping of the Indiana Shoreline



This Contract ("this Natural Resources - (39DN) (the "Contract") is for the consideration of the undersigned and the undersigned or officer of the consideration of the undersigned.

1. Duties of Contractor: Two deliverables: (1) Maps and attributes status of current data electronic inventories Reference Exhibit B

2. Consideration: forth above. Total re - Budget. Progress R December 2, 2013.

3. Term: This Contract February 11, 2013 at

4. Access to Records: documents, papers, a Contract. They shall during this Contract, inspection by the State requested.

5. Assignment: Suc conditions of this Co Contract without the payments to such that provided that the Co thirty (30) days in ad under this Contract

6. Assignment of Contract: require, un of the contract

7. Audits: Cont through this Contract audit guidelines spec

The State considers by applicable provis Local Governments, Contractor shall arra

7/2012

The undersigned undersigned is the undersigned or officer of the consideration of the undersigned.

In Witness Whereof: entered into this do by their resp

39 DEGREES

By: Ch
Printed Name: Max
Title: Max
Date: 2-14

Approved by: Indiana Office

By: Paul
Paul Baltzell, C
Date: 4-M

Approved by: State Budget A

Christopher D
Christopher D

Date: 3

30 Data Sharing Letters

7/2012

DNR Indiana Department of Natural Resources

Michael R. Pence, Governor
Robert E. Carter, Jr., Director

INDIANA
LAKE MICHIGAN
COASTAL PROGRAM
10 YEARS

Lake Michigan Coastal Program
402 W. Washington, W267
Indianapolis, IN 46204
Ph - 317-233-0132
Fax - 317-233-0133

DATE, 2013

NAME
ADDRESS

Dear NAME:

The Indiana Department of Natural Resources Lake Michigan Coastal Program has contracted with *39 Degrees North* and *The Polis Center* at IUPUI to develop a Lake Michigan shoreline GIS catalogue. The purpose of the catalogue is to support coastal planning and managing of natural and cultural resources along the Lake Michigan shoreline. The project team will compile a variety of GIS data for a 1,100 foot landward buffer along the Indiana shoreline. The data will assist the Lake Michigan Coastal Program in the continued development of technical assistance and grant opportunities to mitigate coastal hazards.

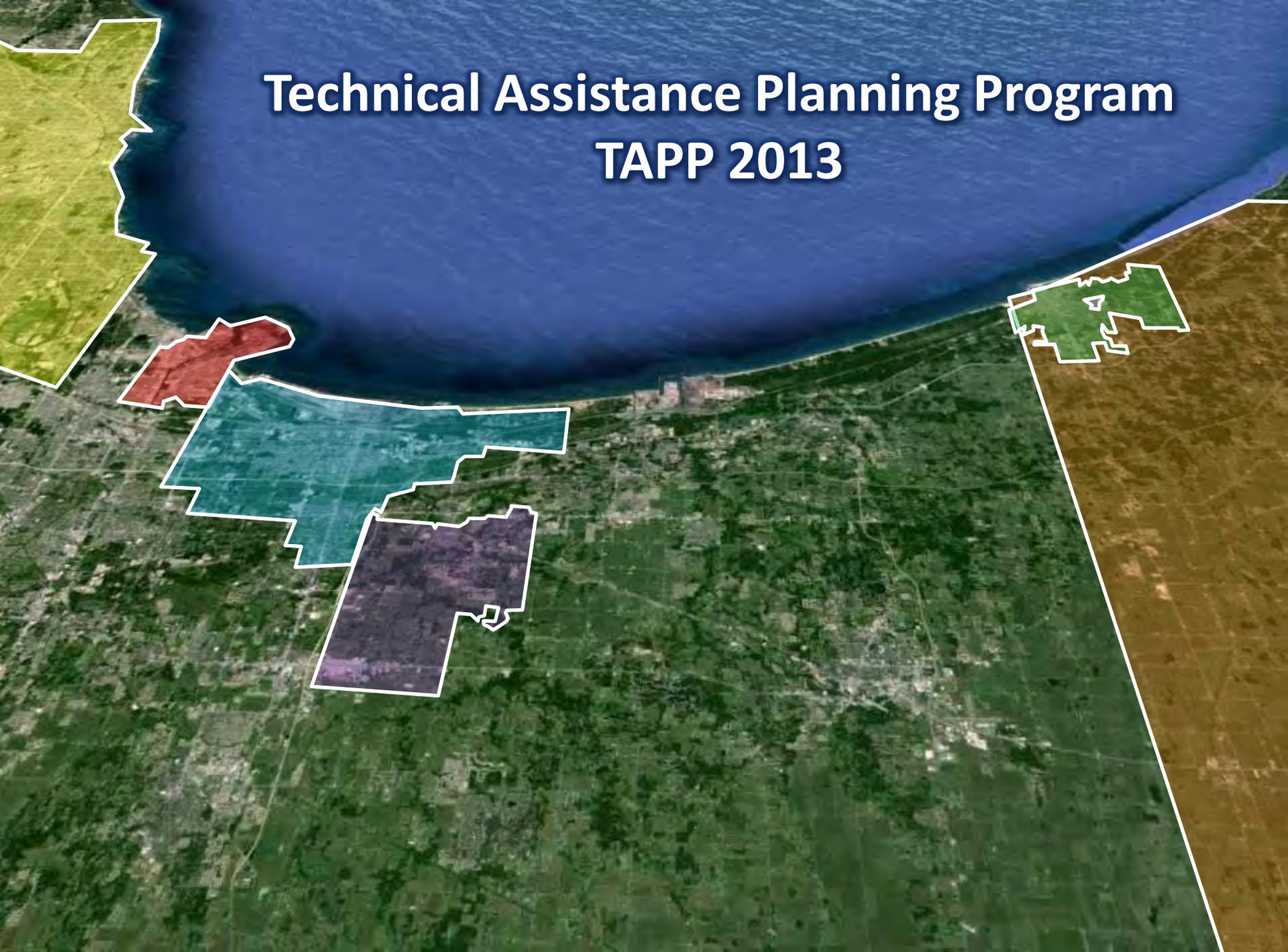
The project team will contact you to identify the GIS data to include in the project catalogue. The compiled GIS data layers will be delivered to the Indiana Department of Natural Resources Lake Michigan Coastal Program and become available as a future resource for stakeholders.

Individuals from *39 Degrees North* and *The Polis Center* will contact you to review GIS data to be included in the catalogue. Please request additional data to support this effort. Please contact me with any questions or comments. We look forward to working with you to develop this important database.

Sincerely,

Sergio
Sergio Carreras Sandoza, Coastal Resource Planner
Indiana Department of Natural Resources - Lake Michigan Coastal Program
1600 North 25 East
Chesterton, Indiana 46304
219.926.9757
smendoza@dnr.in.gov

Technical Assistance Planning Program TAPP 2013



A Synthesis of Environmental Goals and Objectives

Indiana Lake Michigan Coastal Program

A Synthesis of Environmental Goals and Objectives

Plans and Strategies for the Indiana Lake Michigan Coastal Region

Last Updated 12/18/2013



DNR
Department of Natural Resources

Download this document from the web at
<http://www.in.gov/dnr/lakemich/6084.htm>

Table of Contents

COASTAL PLANS.....	1
THE COASTAL HISTORIC AND CULTURE RESOURCES STUDY OF THE LAKE MICHIGAN WATERSHED.....	1
INDIANA RECREATIONAL ACCESS GUIDE, LAKE MICHIGAN MANAGEMENT PLAN.....	2
INDIANA COASTAL NONPOINT WATER POLLUTION PROGRAM PLAN.....	3
COASTAL AND ESTUARINE LAND CONSERVATION PROGRAM PLAN FOR THE STATE OF INDIANA.....	5
INVENTORY OF PUBLIC ACCESS RECREATIONAL SITE WITHIN THE INDIANA COASTAL AREA.....	6
NEEDS ASSESSMENTS OF PUBIC RECREATION SITES WITHIN THE INDIANA COASTAL AREA.....	7
PUBLIC ACCESS NEEDS ASSESSMENTS APPENDICIES.....	8
LOCAL WATERSHED PLANS.....	9
SALT CREEK WATERSHED MANAGEMENT PLAN.....	9
COFFEEE CREEK WATERSHED MANAGMENT PLAN.....	11
DEEP RIVER/TURKEY CREEK WATERSHED MANAGEMENT PLAN.....	12
DUNES CREEK WATERSHED MANAGEMENT PLAN.....	13
GALENA RIVER WATERSHED MANAGEMENT PLAN.....	14
TRAIL CREEK WATERSHED MANAGMENT PLAN.....	15
LITTLE CALUMET RIVER WATERSHED – WEST BRANCH MANAGEMENT PLAN.....	16
PLAN REGIONAL.....	17
2040 COMPREHENSIVE REGIONAL PLAN (CRP).....	17
MARQUETE PLAN.....	19
WATERSHED RESTORATON ACTION STRATEGY FOR THE LITTLE CALUMET-GALIEN WATERSHED: PART 2.....	21
CHICAGO WILDERNESS BIODIVERSITY RECOVERY PLAN T.....	24
THE COUNCIL OF GREAT LAKES GOVERNORS.....	26
GREENWAYS AND BLUEWAYS NORTHWEST INDIANA REGIONAL PLAN.....	27
DRAFT NORTHWEST INDIANA PEDSTRIAN AND BICYCLE TRANSPORTATION PLAN.....	28
WATERSHED MANAGEMENT PLAN FOR LAKE, PORTER, AND LAPORTE COUNTIES.....	29
INDIANA STATEWIDE PLANS.....	31
INDIANA WETLANDS CONSERVATION PLAN.....	31
INDIANA NONPOINT SOURCE MANAGEMENT PLAN.....	33
INDIANA STATEWIDE FOREST STRATEGY.....	34
INDIANA COMPREHNSIVE WILDLIFE STRATEGY.....	35
FEDERAL PLANS.....	37
EPA STATEGIC PLAN 2011.....	37
LAKE MICHIGAN LAKEWAIDE AREA MANAGEMENT PLAN.....	39
GREAT LAKES COLLABORATION STRATEGY TO RESTORE AND PROTECT THE GREAT LAKES.....	43
NATIONAL FISH HABITAT ACTION PLAN.....	45
U.S. FISH AND WILDLIFE SERVICE: THE COASTAL PROGRAM GREAT LAKE STRATEGIC PLAN 2007-2011 NATIONAL.....	46
INVASIVE SPECIES MANAGEMENT PLAN.....	47
GREAT LAKES RESTORATION ACTION PLAN.....	49

Lake Michigan Coastal Program Unified Preferred Project Plan

INDIANA LAKE MICHIGAN FINAL ENVIRONMENTAL IMPACT STATEMENT



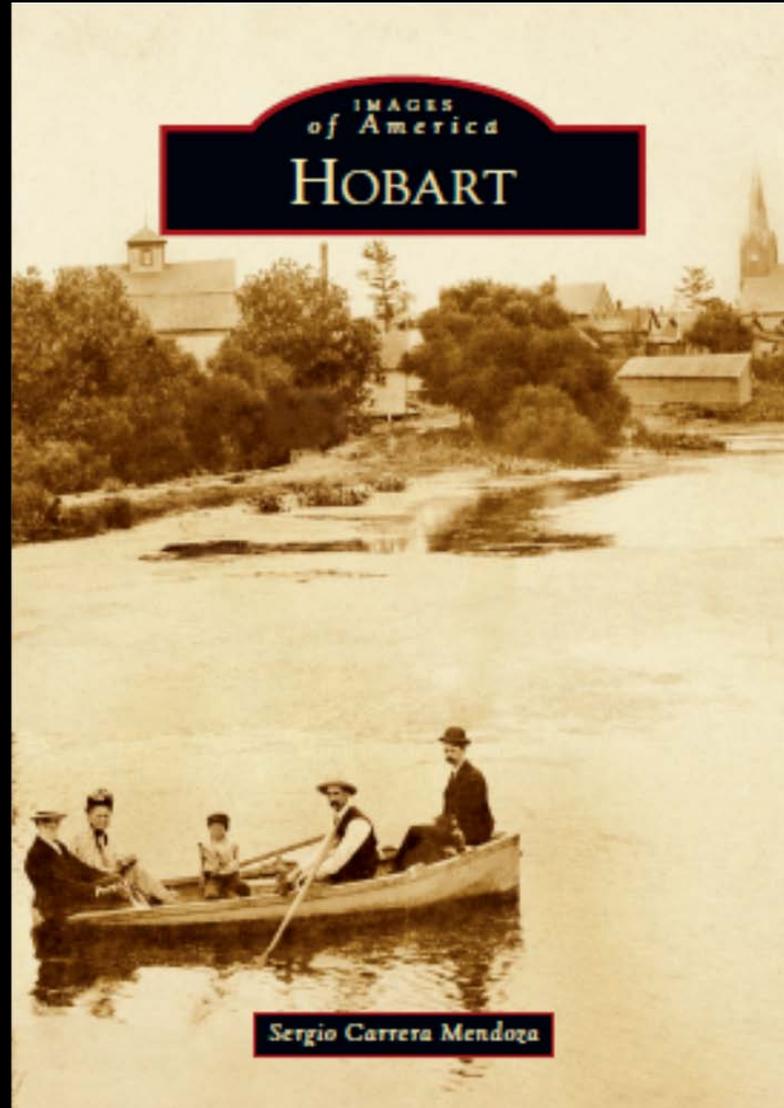
DEPARTMENT OF NATURAL RESOURCES
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION

SECTION 5-2: COASTAL HAZARDS	107
MANAGED ACTIVITIES.....	107
BACKGROUND.....	108
MATRIX 5-2: CROSS-REFERENCE OF COASTAL HAZARDS LAWS AND GUIDANCE DOCUMENTS	114
SECTION 5-3: WATER QUALITY	118
MANAGED ACTIVITIES.....	118
BACKGROUND.....	119
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	120
MATRIX 5-3: CROSS-REFERENCE OF WATER QUALITY LAWS AND GUIDANCE DOCUMENTS	135
SECTION 5-4: WATER QUANTITY	149
MANAGED ACTIVITIES.....	149
BACKGROUND.....	149
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	151
MATRIX 5-4: CROSS-REFERENCE OF WATER QUANTITY LAWS AND GUIDANCE DOCUMENTS	162
SECTION 5-5: NATURAL AREAS, FISHERIES, WILDLIFE, AND NATIVE AND EXOTIC SPECIES	170
MANAGED ACTIVITIES.....	171
BACKGROUND.....	171
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	173
MATRIX 5-5: CROSS-REFERENCE OF NATURAL AREAS, FISHERIES, WILDLIFE, AND NATIVE AND EXOTIC SPECIES LAWS AND GUIDANCE DOCUMENTS	191
SECTION 5-6: RECREATION, ACCESS, AND CULTURAL RESOURCES	215
MANAGED ACTIVITIES.....	215
BACKGROUND.....	215
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	216
MATRIX 5-6: CROSS-REFERENCE OF RECREATION, ACCESS, AND CULTURAL RESOURCES LAWS AND GUIDANCE DOCUMENTS	225
SECTION 5-7: ECONOMIC DEVELOPMENT	242
MANAGED ACTIVITIES.....	242
BACKGROUND.....	242
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	243
MATRIX 5-7: CROSS-REFERENCE OF ECONOMIC DEVELOPMENT LAWS AND GUIDANCE DOCUMENTS	253
SECTION 5-8: POLLUTION PREVENTION, RECYCLING, REUSE, AND WASTE MANAGEMENT	269
MANAGED ACTIVITIES.....	269
BACKGROUND.....	269
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	271
MATRIX 5-8: CROSS-REFERENCE OF POLLUTION PREVENTION, RECYCLING, REUSE, AND WASTE MANAGEMENT LAWS AND GUIDANCE DOCUMENTS	281
SECTION 5-9: AIR QUALITY	299
MANAGED ACTIVITIES.....	301
BACKGROUND.....	301
IMPLEMENTATION OF MANAGEMENT TECHNIQUES.....	302
MATRIX 5-9: CROSS-REFERENCE OF AIR QUALITY LAWS AND GUIDANCE DOCUMENTS	307
SECTION 5-10: PROPERTY RIGHTS	311

- I. Management Authorities 5.2**
 - A. Study/Plan/Handbook/Report**
 - 1. Eligible Applicant/Govt.
 - a. Preferred Project
 - b. Preferred Project
 - 2. Eligible Applicant/Govt.
 - a. Preferred project
 - B. Study/Plan/Handbook/Report**
 - 1. Eligible Applicant/Govt.
 - a. Preferred Project
 - b. Preferred Project
 - c. Preferred Project
- II. Management Authorities 5.3**
 - A. Study/Plan/Handbook/Report**
 - 1. Eligible Applicant/Govt.
 - a. Preferred Project
 - 2. Eligible Applicant/Govt.
 - a. Preferred Project
 - b. Preferred Project
 - B. Study/Plan/Handbook/Report**
 - 1. Eligible Applicant/Govt.
 - a. Preferred Project
 - b. Preferred Project
 - c. Preferred Project
 - C. Study/Plan/Handbook/Report**
 - 1. Eligible Applicant/Govt.
 - a. Preferred Project
 - 2. Eligible Applicant/Govt.
 - a. Preferred Project
 - 3. Eligible Applicant/Govt.
 - a. Preferred Project

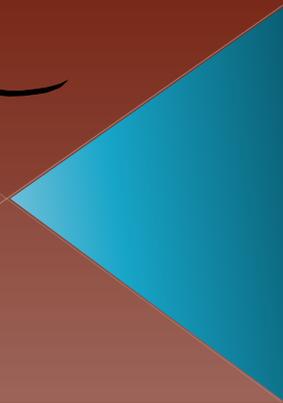
Book Release Party

Friday, January, 24, 2014



Pass-thru Grants 2013 Year in Review

INDIANA LAKE MICHIGAN COASTAL PROGRAM



Grant Info Workshops in 2012

Grantee Startup Workshops:

- 9/4/2012, 10 participants
- 9/19/2012, 6 participants

2013 Grant Application Workshops:

- 8/28/2012, 8 participants
- 8/29/2012, 2 participants
- 9/5/2012, 9 participants
- 9/11/2012, 4 participants

2013 Full Proposal Workshops:

- 11/26/2012, 8 participants
- 11/27/2012, 20 participants

67 attendees at
LMCP Grant
Workshops /
presentations in
2012

Grant Info Workshops in 2013

LMCP Grant Informational Presentations:

- 2/27/2013 – ICCWMA Round Table ~ 50 participants
- 6/19/2013 – Dunes Visitor's Center ~ 20 participants
- 7/19/2013 – J.F. New Open House ~ 40 participants
- 8/15/2013 – Illinois CMP ~ 18 participants

2014 Grant Application Workshops:

- 8/26/2013 -- 8 participants
- 8/29/2013 -- 9 participants
- 9/5/2013 -- 7 participants

Grantee Startup Workshop / Webinar:

- 9/25/2013
24 in-person participants
11 webinar participants

2014 Full Proposal Workshop / Webinar:

- 12/4/2013
4 in-person participants
13 webinar participants

204 attendees
at LMCP Grant
Workshops /
presentations in
2013

CAB Grant Committee

Grant Committee Meetings which were convened:

- 7/16/2012
- 10/9/2012
- 10/12/2012
- 10/15/2012
- 10/19/2012
- 11/19/2012

**6 Grant
Committee
Meetings in
2012, some
lasting a full
day!**

The grants criteria and review process have been extensively reviewed and are well on the way to being greatly improved.

CAB Grant Committee

Grant Committee Meetings which were convened:

- 4/11/2013
- 8/21/2013
- 10/10/2013

**3 Grant
Committee
Meetings in 2013,
all lasting less
than two hours!**

The grants criteria and review process were extensively reviewed last year, resulting in a more streamlined and less time-consuming process.



COASTAL ADVISORY BOARD GRANT COMMITTEE

2014 PRE-PROPOSAL SCORING WORKSHEET

§306A Low Cost Construction Projects

Please fill in the blanks below with your scores. Complete one of these forms for each Low Cost Construction category Pre-proposal you review.

Applicant Name: _____

Project Name: _____

Priority scores (scored by LMCP Coastal Advisory Board Grant Committee)

	<u>Point Value Range</u>
How well does this project fit the priority checked off by the applicant?	
• Natural area restoration	0-10 _____
• Community Rain Gardens / Bioswale	0-5 _____
• Coastal community entryway signage, marker restoration	0-5 _____
• Cultural / Historical Resource Restoration	0-5 _____
• Other	0 _____

Plan Implementation (scored by the Grant Committee)

How well does this low cost construction project implement actions recommended in existing plans which were created through local governments, regional organizations, or other public processes?

0-5 _____

Past Performance (scored by Grant Specialist and Program Manager)

2013 Funding Cycle

- Requested by applicants last year:
\$1,177,241 for 31 projects
- Recommended for Full Proposal:
\$963,632 for 29 projects
- Awarded: \$565,502.00

2014 Funding Cycle

- Requested by applicants this year:
\$1,066,995.13 for 24 projects
- Recommended for Full Proposal:
\$1,025,343.13 for 22 projects
- Available ~ \$600,000.00

2012 Funding Summary

2010 Funding Cycle

22 projects worth \$723,593.00

- Unobligated \$37,682.00

2011 Funding Cycle

22 projects worth \$520,301.74

- Unobligated \$91,609.26

2012 Funding Cycle

16 projects worth \$588,485.25

-Unobligated \$116,602.00

Current Funding Summary

2011 Funding Cycle

28 projects worth \$605,045.94

Unobligated: \$0

2012 Funding Cycle

23 projects worth \$612,331.30

Unobligated: \$0

2013 Funding Cycle

16 projects worth \$565,502.00

Unobligated: \$0

51 Pass-thru Grant Projects Currently Open

Current Funding Summary

2010 Funding Cycle

22 projects worth \$723,593.00

Unobligated: \$37,682.00

2011 Funding Cycle

28 projects worth \$605,045.94

Unobligated: \$0

2011 Funding Cycle

22 projects worth \$520,301.74

Unobligated \$91,609.26

2012 Funding Cycle

23 projects worth \$612,331.30

Unobligated: \$0

2012 Funding Cycle

16 projects worth \$588,485.25

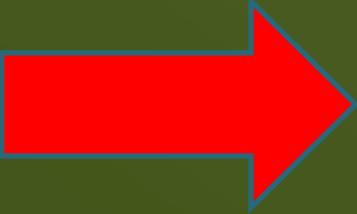
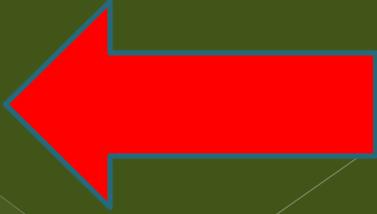
Unobligated \$116,602.00

2013 Funding Cycle

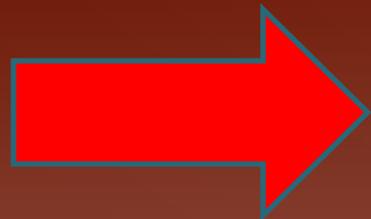
16 projects worth \$565,502.00

Unobligated: \$0

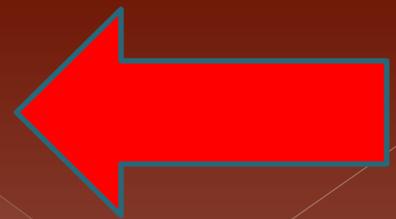
TOTAL UNOBLIGATED FUNDS (2012):

 \$245,893 

TOTAL UNOBLIGATED FUNDS (2013):



\$0.00



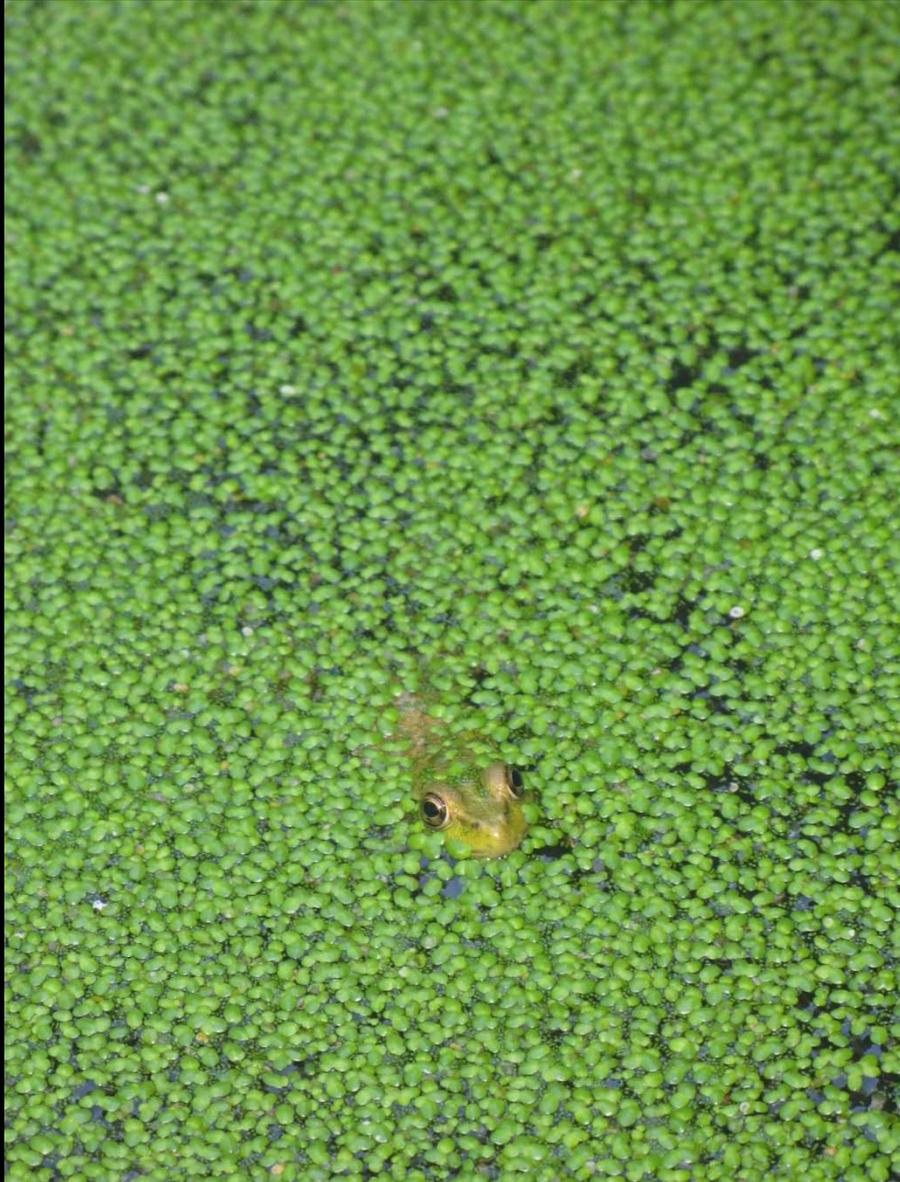


2013 COASTAL ECOLOGIST
DEREK NIMETZ

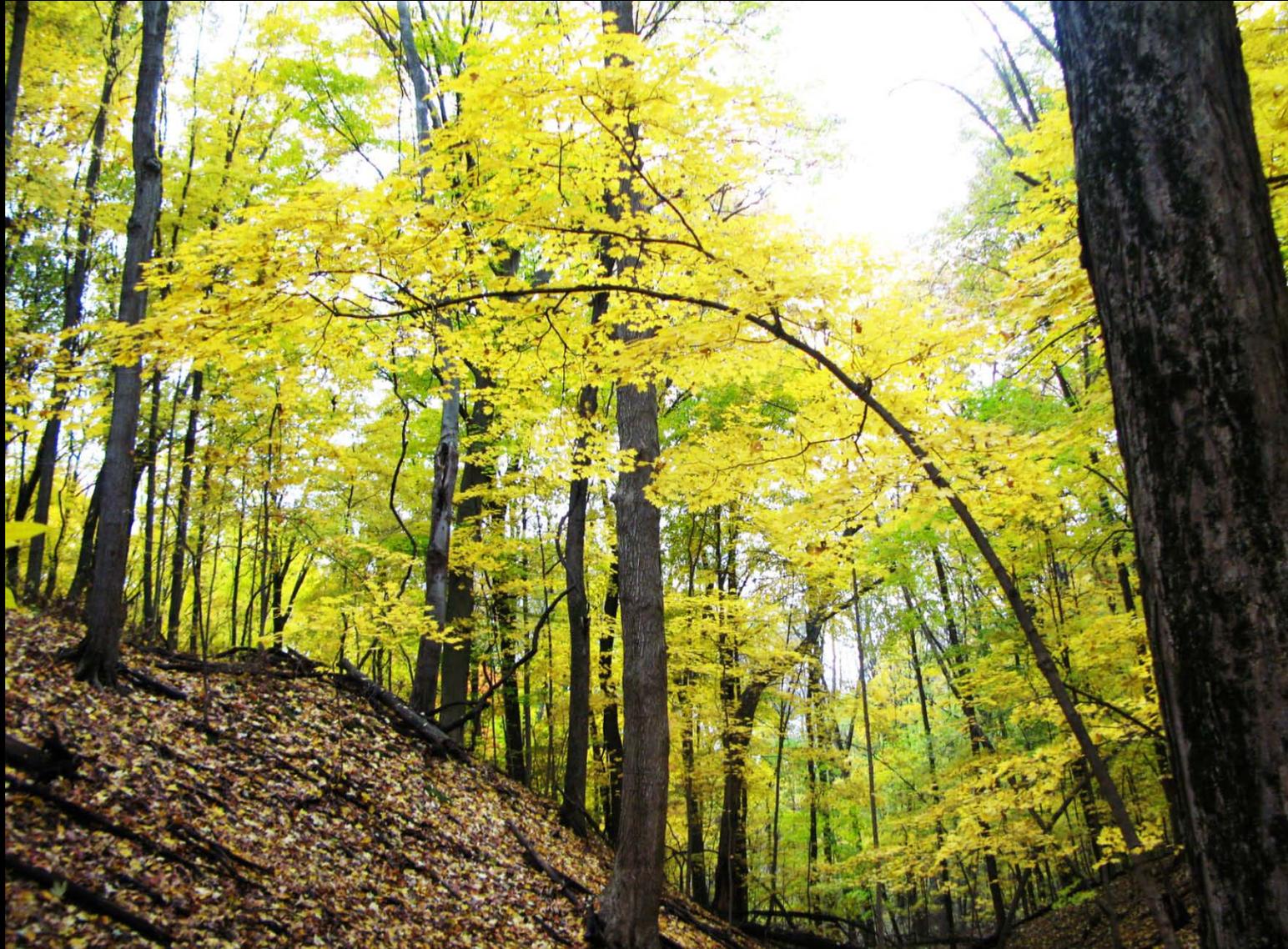
Coastal Ecologist 2013 Review

- ***Public Outreach***
 - *Hikes*
 - *Presentations*
- ***Rare Plant Monitoring***
- ***Nature Preserve Management***
- ***Moon Valley***
- ***Site Inspections***

Moraine Nature Preserve



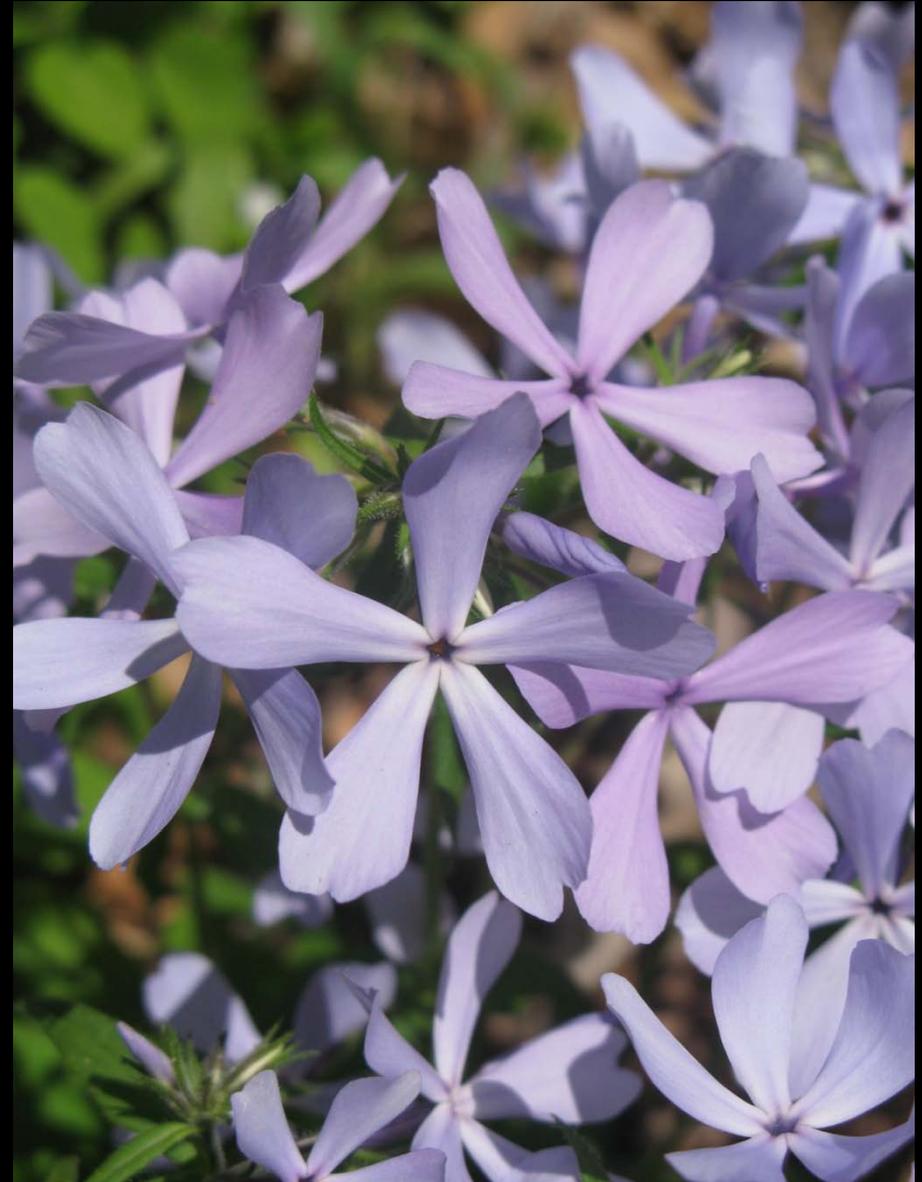
Moraine Nature Preserve





Division of Nature Preserves – Spring Wildflower Field Day

Dunes Nature Preserve – Trail 2



Panax trifolius
Dwarf Ginseng



***Division of Nature Preserves – Fall Field Day
Springfield Fen – LaPorte County***



Hoosier Prairie Habitat Restoration – Norco East

Indiana Department of Natural Resources
Division of Nature Preserves

Derek Alan Nimetz



NATIVE LANDSCAPING ALTERNATIVES TO INVASIVE PLANT SPECIES



Botrychium matricariifolium
Chamomile Grape-fern



Corydalis sempervirens

Pale Corydalis



Corydalis sempervirens

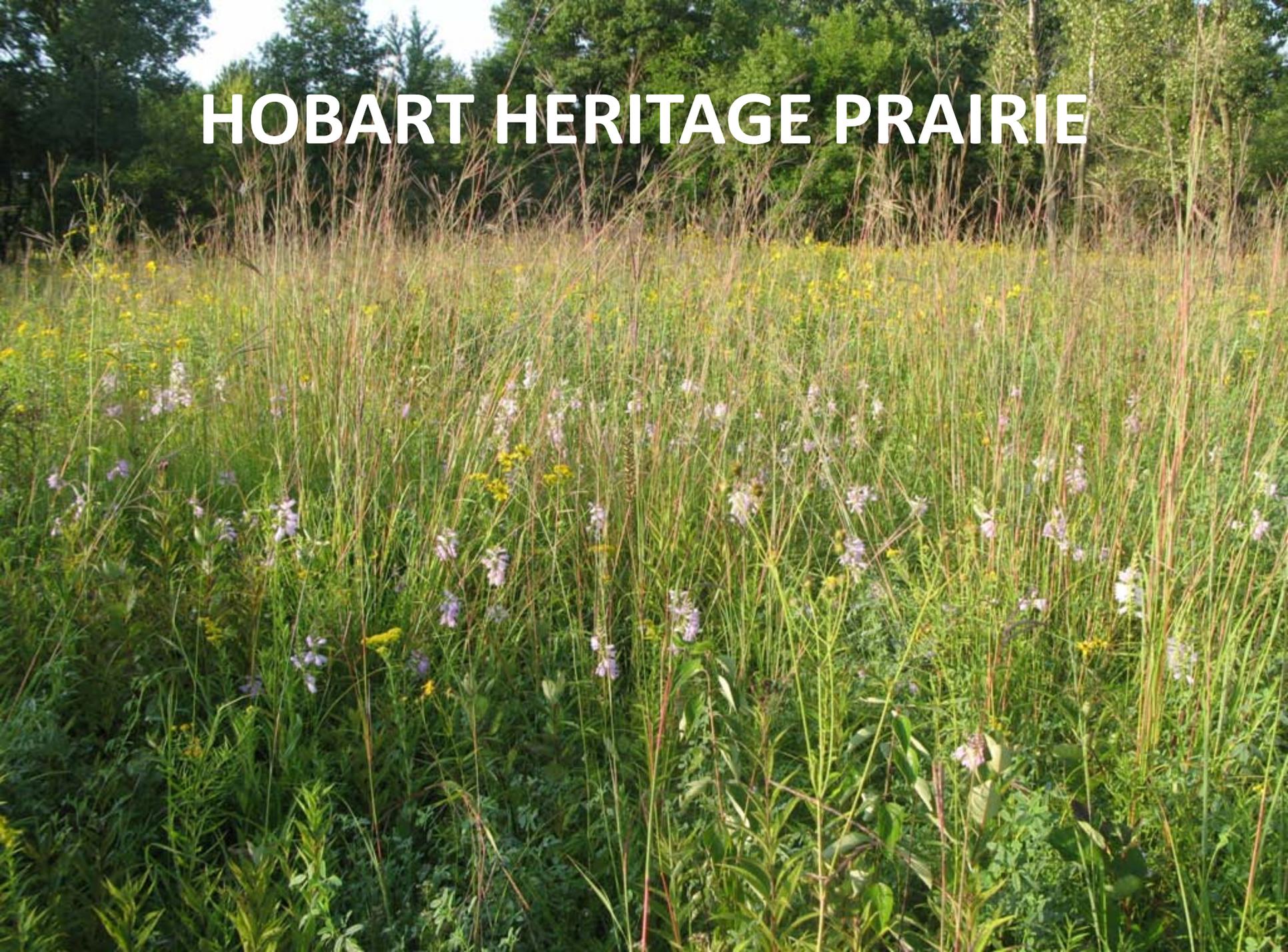
Pale Corydalis







HOBART HERITAGE PRAIRIE



Gentiana puberulenta
Downy Gentian

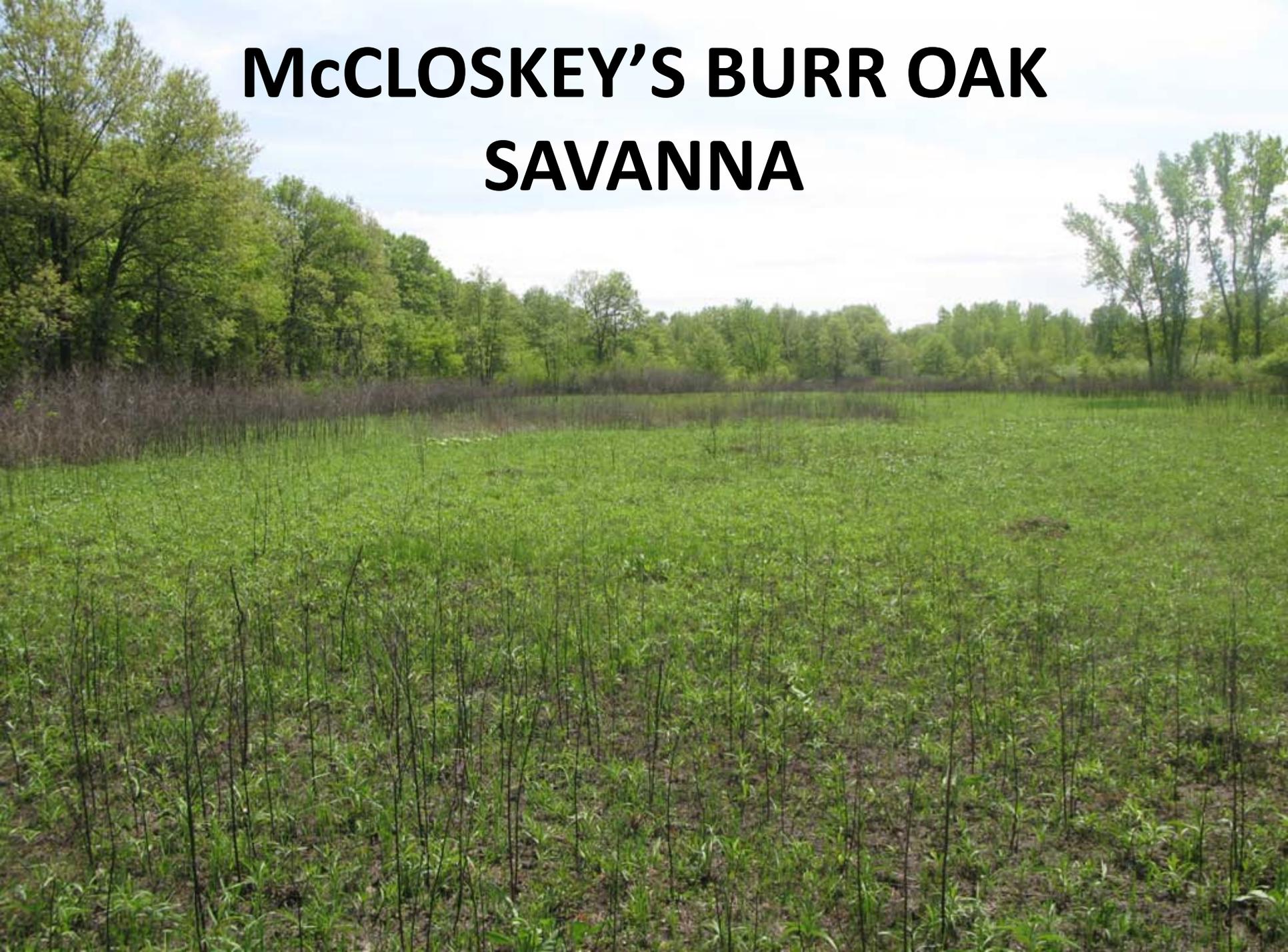


Gentiana puberulenta
Downy Gentian





McCLOSKEY'S BURR OAK SAVANNA



Viola pedatifida
Prairie Violet



Viola pedatifida
Prairie Violet







Agalinis auriculata
Earleaf Foxglove

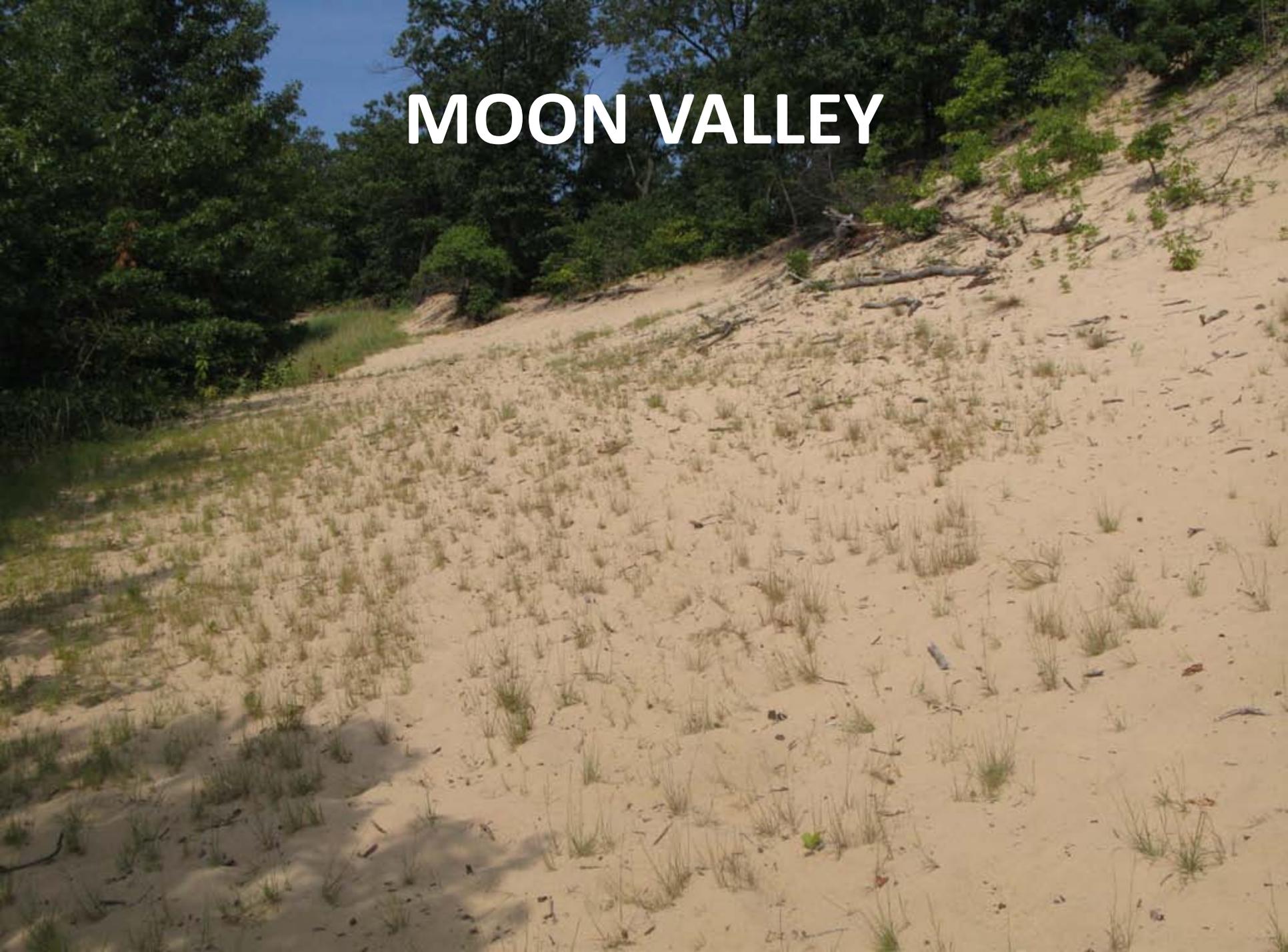


Agalinis auriculata
Earleaf Foxglove





MOON VALLEY



Polygonella articulata
Eastern Jointweed



P.N.A. – LaPorte County



P.N.A. – LaPorte County



P.N.A. – LaPorte County





QUESTIONS?

THANK YOU!



CONTACT INFORMATION

DEREK NIMETZ

INDIANA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF NATURE PRESERVES

1600 NORTH 25 EAST

CHESTERTON, IN 46304

(219) 928-3997

dnimetz@dnr.in.gov