

Appendix D-4  
Erie and Lorain Counties, OH  
Discovery Report

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# Discovery Report

**Great Lakes Coastal Flood Study**

**Lake Erie**

**Erie County and Lorain County, Ohio**

**Individual Discovery Report**

**Report Number 01**

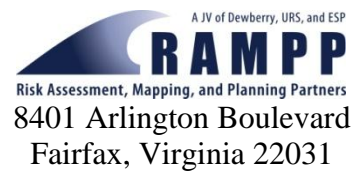
**March 2013**



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## ***Project Area Community List***

<b>Erie County</b>	<b>Lorain County</b>
Erie County (Unincorporated Areas)	Lorain County (Unincorporated Areas)
Bay View, Village of	Avon Lake, City of
Huron, City of	Lorain, City of
Kelleys Island, Village of	Sheffield Lake, City of
Sandusky, City of	Vermilion, City of
Vermilion, City of	

This list includes the communities within the Project Area covered by this report for the Great Lakes Coastal Study under consideration for new Federal Emergency Management Agency (FEMA) Risk Mapping, Assessment, and Planning (Risk MAP) products and datasets, which may include Flood Insurance Studies (FISs) and Flood Insurance Rate Maps (FIRMs). Not all communities will receive new/updated FEMA Risk MAP products and datasets or FISs and FIRMs.

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- Attachment B: Data Collection
- Attachment C: Discovery Maps
- Attachment D: Discovery Meeting

AAL	Average Annualized Loss
BFE	Base Flood Elevation
CAV	Community Assistance Visit
CBRS	Coastal Barrier Resources System
CELCP	Coastal and Estuarine Land Conservation Program
CID	Community Identification Number
CIS	Community Information System
C-MAN	Coastal Marine Automated Network
CMAG	Coastal Management Assistance Grant
CNMS	Coordinated Needs Management Strategy
CO-OPS	Center for Operational Oceanographic Products and Services
CRS	Community Rating System
DFO	Department of Fisheries and Oceans
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
GIS	Geographic Information System
GLERL	Great Lakes Environment Research Laboratory
Hazus-MH	Multi-Hazard Risk Assessment and Loss Estimation Software Program
HUC8	Hydrologic Unit Code 8
HWM	High Water Mark
LESEMP	Lake Erie Shore Erosion Management Plan
LOMA	Letter of Map Amendment
LOMC	Letter of Map Change
LOMR	Letter of Map Revision
LOMR-F	Letter of Map Revision based on Fill
MLI	Midterm Levee Inventory
NAVD 88	North American Vertical Datum of 1988
NCDC	National Climatic Data Center
NDBC	National Data Buoy Center
NFIP	National Flood Insurance Program
NGDC	National Geophysical Data Center



## Acronyms and Abbreviations

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NID	National Inventory of Dams
NOAA	National Oceanic and Atmospheric Administration
OCMP	Ohio Coastal Management Program
ODNR	Ohio Department of Natural Resources
Risk MAP	Risk Mapping, Assessment, and Planning
SFHA	Special Flood Hazard Area
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

### SECTION ONE DISCOVERY OVERVIEW

The Federal Emergency Management Agency (FEMA) Risk Mapping, Assessment, and Planning, or Risk MAP, program helps communities identify, assess, and reduce their flood risk. Through Risk MAP, FEMA provides information to enhance local mitigation plans, improve community outreach, and increase local resilience to floods.

During the Discovery phase of Risk MAP project development, FEMA:

- Gathers information about local flood risk and flood hazards
- Reviews mitigation plans to understand local mitigation capabilities, hazard risk assessments, and current or future mitigation activities
- Supports communities within the coastal area to develop a vision for the future
- Collects information from communities about their flooding history, development plans, daily operations, and stormwater and floodplain management activities
- Uses all information gathered to determine which areas require mapping, risk assessment, or mitigation planning assistance through a Risk MAP project
- Develops Discovery Maps and Report that summarize and display the Discovery findings

#### 1.1 GREAT LAKES COASTAL FLOOD STUDY

FEMA has initiated a coastal analysis and mapping study to produce updated Flood Insurance Rate Maps (FIRMs) for coastal counties along the Great Lakes. The new coastal flood hazard analyses will use updated 1-percent-annual-chance (100-year) flood elevations obtained from a comprehensive storm surge study being developed by the U.S. Army Corps of Engineers (USACE).

An updated coastal flood study is needed to obtain a better estimate of coastal flood hazards on the Great Lakes. The current, effective FIRMs are outdated primarily because of the age of data and the coastal methodologies used in producing them. Major changes in National Flood Insurance Program (NFIP) policies and methodologies have been implemented since the effective dates of many Flood Insurance Studies (FISs) in the area, creating the need for an update that will reflect a more detailed and complete hazard determination.

The Great Lakes Coastal Flood Study includes a system-wide solution that provides a comprehensive analysis of storm and high water events within the Great Lakes Basin. This program is funded through the FEMA Risk MAP program. FEMA, USACE, the Association of State Floodplain Managers, State partners, and FEMA contractors will collaborate in updating the coastal methodology and flood maps. FEMA manages the NFIP, which is the cornerstone of the national strategy for preparing communities for flood-related disasters.

#### 1.2 PURPOSE OF GREAT LAKES DISCOVERY

The purpose of the Great Lakes Discovery is to update NFIP products to increase public awareness of short- and long-term lake level variations, storm events and associated storm surge and waves to improve community resiliencies related to flood losses (life, property, and business).

This Discovery Report discusses the communities potentially affected by coastal flooding in Erie and Lorain Counties, OH, as shown in Figure 1.

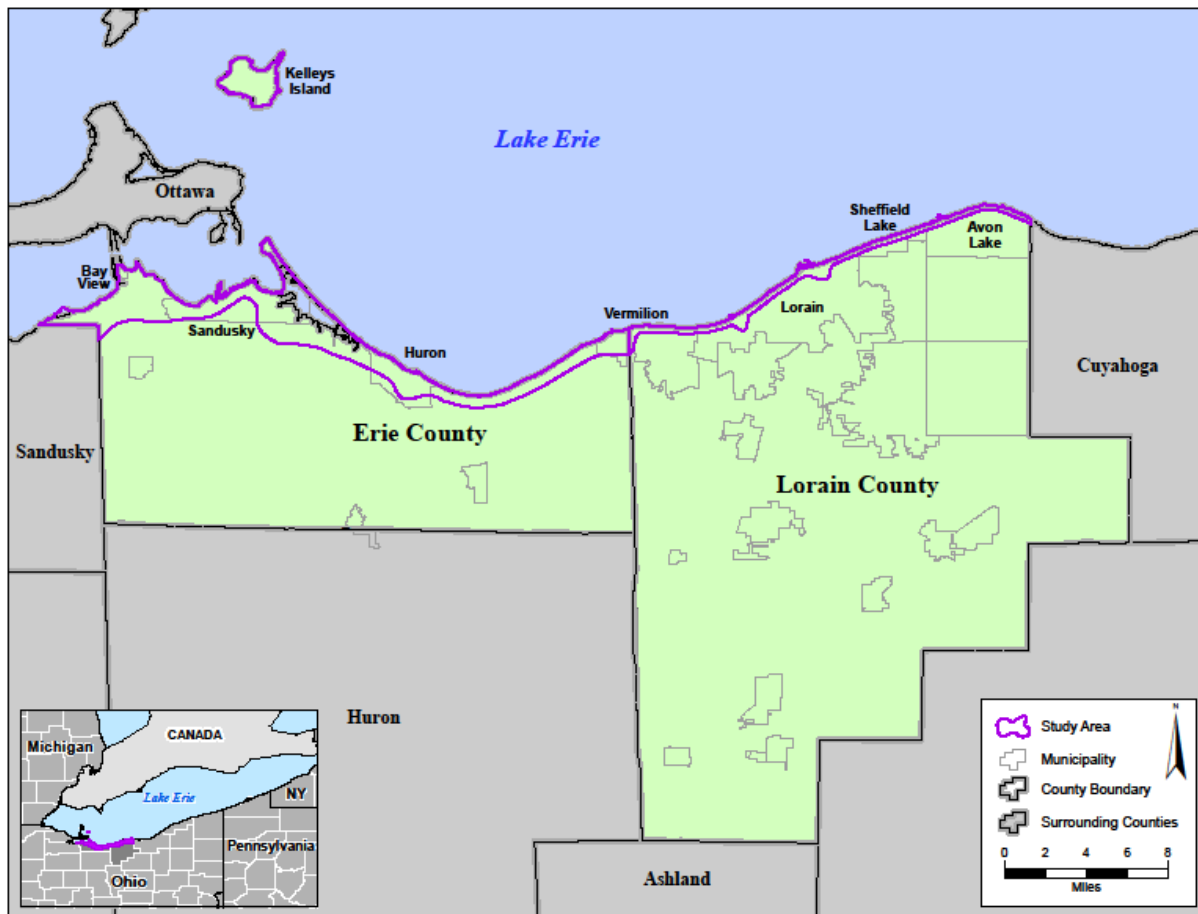


Figure 1: Project Area Map

### 1.3 COASTAL FLOOD RISK PRODUCTS

The Risk MAP Program will provide State and community officials with three flood risk products to help them gain a better understanding of flood risk and its potential impact on communities and individuals. These products will also enable communities to take proper mitigation actions to reduce this risk. The three products are:

- Flood Risk Report
- Flood Risk Map
- Flood Risk Database

These products will summarize information captured through the Flood Risk Datasets during the Flood Risk study. The associated datasets could include regular and enhanced products:

- Changes Since Last FIRM

- Flood Depth and Analysis Grids
- Flood Risk Assessment Data
- Areas of Mitigation Interest
- Areas Affected by Increased Inundation
- Wave Hazard Severity Areas
- Coastal Wave Height Grid
- Erosion Risk Determination

## SECTION TWO GREAT LAKES OUTREACH STRATEGY

### 2.1 LAKE ERIE DISCOVERY STAKEHOLDER COORDINATION

To communicate effectively throughout the life of a possible Risk MAP project in this Great Lakes Coastal Flood Study, the use of email, telephone, and letters will be essential. A master list of stakeholders in the communities within the Project Area covered by this report (Erie and Lorain Counties, OH) is included in the Attachments. A total of 84 invitations were sent to stakeholders within the Erie and Lorain County portions of the Lake Erie Coastal Flood Study project.

Representatives from the local governments, including cities, townships, and villages are considered fundamental stakeholders in this process because they have been elected or appointed to represent the interests of the residents of the Project Area. In addition to local governments, the county officials were invited to participate in the Discovery Meetings. See the Attachments for a complete list of the stakeholders invited to the Discovery Meetings.

**SECTION THREE SUMMARY OF DATA ANALYSIS**

During the Discovery portion of the Lake Erie Coastal Flood Study project, a massive amount of tabular and spatial data was collected for all communities from Federal and State sources, as well as through phone interviews and the Discovery Coastal Data Request forms sent to each community. Section 3 describes the types of data and their sources that the project team collected for the study area before the Discovery Meeting. The Data Analysis that follows Table 1 is divided into two sections: Section 3.1 describes the data that can be used for Risk MAP products and Section 3.2 describes the information that helped the study team to form a better understanding of the Project Area.

**Table 1: Data Collected for Erie and Lorain Counties, OH**

<b>Data Types</b>	<b>Deliverable/Product</b>	<b>Source</b>	<b>Date of Data Collection</b>	<b>Resolution</b>
Average Annualized Loss Data	Discovery Map	Federal Emergency Management Agency (FEMA)	April 2011*	Nationwide
Census Blocks	Discovery Map	U.S. Census Bureau	Dec. 2011	Countywide
Contacts	Discovery Report	Local Community Web sites State/FEMA updates	Dec. 2011	Countywide
Community Assistance Visits	Discovery Report	FEMA Community Information System (CIS), Ohio Department of Natural Resources (ODNR)	Dec. 2011	Countywide
Community Rating System	Discovery Report	FEMA's "Community Rating System Communities and Their Classes"	Dec. 2011	Nationwide
Comprehensive Plans	Discovery Report	Local Community Web sites	Dec. 2011	Countywide
Coastal Barrier Resources System	Discovery Map	U.S. Fish and Wildlife Service	Nov. 2011*	Nationwide
Coastal Construction	Discovery Map	U.S. Army Corps of Engineers (USACE)	July 2012	Nationwide
Coordinated Needs Management Strategy	Discovery Map	FEMA	July 2012	Countywide
Critically Eroded Beach Areas	Discovery Report	ODNR	December 2011*	Statewide
Critical Facilities	Discovery Report	Local Mitigation Plans	April 2012	Countywide

## Summary of Data Analysis

<b>Data Types</b>	<b>Deliverable/Product</b>	<b>Source</b>	<b>Date of Data Collection</b>	<b>Resolution</b>
Dams	Discovery Report	USACE, National Inventory of Dams, Flood Insurance Rate Map Database, ODNR Dam Safety Program	April 2012	Countywide
Declared Disasters	Discovery Report	FEMA's "Disaster Declarations Summary"	April 2012	Nationwide
Demographics, Industry	Discovery Report	U.S. Census Bureau, Local Mitigation Plans	April 2012	Countywide
Effective Floodplains	Discovery Map	FEMA Map Service Center and Mapping Information Platform	April 2012	Countywide
Flood Insurance Policies	Discovery Report	FEMA CIS	April 2012	Nationwide
Hazards Mitigation Plans and Status	Discovery Report	Local Mitigation Plans, Ohio Emergency Management Agency	April 2012	Countywide
Hazard Mitigation Assistance Program Grants Received	Discovery Report	FEMA's "Hazard Mitigation Program Summary" Community Input	April 2012	Nationwide
Hazard Mitigation Projects	Discovery Report	ODNR, Local Mitigation Plans	May 2012	Countywide
Historical Flooding	Discovery Report	Effective Flood Insurance Studies (FISs), Local Mitigation Plans	April 2012	Countywide
Historical Storm Events	Discovery Report	Effective FISs, Local Mitigation Plans	April 2012	Countywide
Individual/Public Assistance	Discovery Report	FEMA's "Public Assistance Subgrantee Summary"	April 2012	Nationwide
Letter of Map Change	Discovery Report	FEMA's Mapping Information Platform	April 2012	Countywide
Meteorological Gages	Discovery Map	National Oceanic and Atmospheric Administration (NOAA) Great Lakes Environmental Research Laboratory	April 2012	Region-wide
Midterm Levee Inventory (MLI)	Discovery Report	MLI database	Nov. 2011*	Nationwide

Data Types	Deliverable/Product	Source	Date of Data Collection	Resolution
Ordinances	Discovery Report	Local Community Web sites, ODNR	April 2012	Countywide
Repetitive Loss	Discovery Report	FEMA CIS	April 2012	Countywide
Shoreline Classification	Discovery Map	USACE	July 2012	Region-wide
Stream Gages	Discovery Map	United States Geological Survey	April 2012	Countywide
Water Level Gages	Discovery Map	NOAA, Canadian Department of Fisheries and Oceans	April 2012	Region-wide
Wave Gages	Discovery Map	NOAA	April 2012	Region-wide

\* Date of Data Release

### 3.1 DATA THAT CAN BE USED FOR FUTURE COASTAL FLOOD RISK PRODUCTS

During the Discovery process, the project team created a database of available flood hazard and flood risk assessment data. This database not only provides an inventory of available data, but helps identify gaps in the flood hazard data. State, county, and government geographic information system (GIS) Web sites can provide some of the pertinent data, but local knowledge of flooding and mitigation projects is critical to help accurately determine flood risks and mapping needs. Therefore, local and regional data were also used where available.

#### 3.1.1 Average Annualized Loss Data

The Average Annualized Loss (AAL) data provide a general understanding of the dollar losses associated with a certain frequency of flood events within a county and are used to get a relative comparison of flood risk. They are determined by FEMA’s Multi-Hazard Risk Assessment and Loss Estimation Program, otherwise known as Hazus-MH. The current Hazus-MH analysis is based on approximate flood boundaries and national datasets. The calculation is based on flood elevation estimates using the 10-meter Digital Elevation Model on streams with drainage areas of at least 10 square miles. Additional information about the Hazus-MH process and tool can be found at <http://www.fema.gov/protecting-our-communities/hazus>.

The countywide results for Erie and Lorain Counties were obtained from the report titled “FEMA Hazus AAL Usability Analysis” dated April 13, 2011 (FEMA 2011b) and are shown in Table 2. AAL data summarized at the census block level are shown on the Discovery Maps.



**Table 2: Hazus AAL Data for Erie and Lorain Counties, OH**

FIPS Code	County	Total (in \$ K)	Building (in \$ K)	Content (in \$ K)
39043	Erie	29,090	12,458	15,736
39093	Lorain	38,994	16,882	20,940

Source: FEMA 2011b

FIPS = Federal Information Processing Standards

### 3.1.2 Bathymetry

Bathymetric data are available from the National Oceanic and Atmospheric Administration (NOAA) National Geophysical Data Center (NGDC) hydrographic surveys from 1942, 1948, 1974, and 1976, as well as NOAA Office of Coast Survey nautical charts. The NGDC (2012) data can be found at

<http://www.csc.noaa.gov/topobathy/#> and <http://maps.ngdc.noaa.gov/viewers/bathymetry/>.

The nautical charts (NOAA 2012) can be found at

<http://www.charts.noaa.gov/OnLineViewer/GreatLakesViewerTable.shtml>.

### 3.1.3 Erosion Data

The Division of Geological Survey and the Office of Coastal Management of the Ohio Department of Natural Resources (ODNR) mapped the Lake Erie coast to identify coastal erosion areas since 1988. In 2010, the latest Coastal Erosion Area Maps were released. The extent of coastal recession between 1990 and 2004 was determined using mathematical calculations, aerial photographs, site visits, and extensive quality and consistency reviews. Coastal recession rates for the next 30 years were estimated based on the current recession rates, assuming no measures are taken to address the causes. Areas projected to erode beyond a certain threshold amount are designated as coastal erosion areas and are identified on coastal erosion maps.

Coastal erosion maps can be found at the local ODNR offices or viewed online at

<http://www.dnr.state.oh.us/tabid/22499/Default.aspx> (ODNR 2010).

A Coastal Erosion Area Permit is required to build within a coastal erosion area if (1) the property is immediately adjacent to Lake Erie and (2) the owner wishes to build a new structure or add 500 or more square feet (as measured at ground level) to an existing structure that is within a coastal erosion area. This applies to residential, commercial, industrial, institutional, and agricultural buildings and septic systems. The permit process ensures that construction in areas susceptible to coastal erosion includes provisions to protect coastal bluffs and control erosion rates.

### 3.1.4 Federal Land

Federal lands data were obtained from the National Atlas Web site

(<http://www.nationalatlas.gov/mld/fedlanp.html>) (National Atlas of the United States 2006). The map layer shows lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest

Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included.

No Federal lands lie within Erie and Lorain Counties.

### 3.1.5 Jurisdictional Boundaries

Jurisdictional boundaries shown on the Discovery Maps were obtained from the Erie County and Incorporated Areas FIRM database dated August 28, 2008 (FEMA 2008a) and from the Lorain County and Incorporated Areas FIRM database dated August 19, 2008 (FEMA 2008b).

### 3.1.6 Publicly Owned Land

There are several State parks within Erie and Lorain Counties. Kelleys Island State Park and Resthaven Wildlife Area are located in Erie County. Lakeview Park, which is operated by the Lorain County Metro Parks, is located in Lorain, OH.

Public shoreline access points, beaches, parks, etc., along Lake Erie can be found at Ohio’s Lake Erie Public Access Guidebook Web site (<http://www.ohiodnr.com/tabid/21033/Default.aspx>).

### 3.1.7 Shoreline Information

The shoreline along Erie County (including Sandusky Bay and Kelleys Island) is approximately 93.5 miles and the shoreline is 29.2 miles along Lorain County.

The shoreline classification information was obtained from USACE Detroit District (USACE 2012). It summarizes the shoreline types, shoreline coverage, vegetation types, and land uses along the shoreline, as shown in Tables 3 through 6.

**Table 3: Summary of Shoreline Types**

County	Shoreline Type					
	Total Shoreline (mile)	Artificial shoreline (mile)	Boulders, Bedrock (mile)	Cohesive Clays and Silts (mile)	Sand (mile)	Shingles, Pebbles, Cobbles (mile)
Erie	93.5	77.8	2.5	-	10.6	2.5
Loran	29.2	28.5	-	-	0.6	-

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 4: Summary of Shoreline by Land Uses**

Shoreline by Land Use								
County	Total Shoreline (mile)	Commercial /Industrial (mile)	Farm (mile)	Forest (mile)	High Density Residential (mile)	Moderate Density Residential (mile)	Low Density Residential (mile)	Park (mile)
Erie	93.5	29.8	2.5	1.9	8.6	36.4	3.1	11.2
Loran	29.2	10.6	-	-	4.5	12.2	0.6	1.2

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 5: Summary of Shoreline Coverage**

Shoreline by Coverage								
County	Total Shoreline (mile)	Bluff (2-10 feet) (mile)	Coastal Wetland	Dune (2-10 feet)	Flat Coast	High Bluff (>10 feet) (mile)	High Dune (>10 feet) (mile)	Other (mile)
Erie	93.5	2.4	13.7	-	77.5	-	-	-
Loran	29.2	13.8	-	-	14.9	0.4	-	-

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 6: Summary of Shoreline Vegetation Types**

Shoreline by Vegetation Type							
County	Total Shoreline (mile)	High Density Shrubs or Trees (mile)	Moderate Density Shrubs or Trees (mile)	Low Density Shrubs or Trees (mile)	Manicured Lawn (mile)	None (mile)	Unmaintained Non-Woody Vegetation (mile)
Erie	93.5	3.2	16.2	1.9	46.2	14.9	11.2
Loran	29.2	1.2	1.2	-	19.8	6.2	0.6

Source: USACE 2012, Lake Erie Shoreline Classification

### 3.1.8 Stream Lines/Hydrographs

Stream lines were obtained from the Erie County and Incorporated Areas FIRM database dated August 28, 2008 (FEMA 2008a) and from the Lorain County and Incorporated Areas FIRM database dated August 19, 2008 (FEMA 2008b).

### 3.1.9 Topography

As part of the Great Lakes Coastal Flood Study, Light Detection and Ranging data were collected by the USACE to develop topographic and bathymetric data along the Lake Erie shoreline.

The topographic data are expected to become available during the spring of 2013 for the Lake Erie study area. The new topographic data may be used for the transect-based coastal flood hazard analysis as well as the mapping of the coastal flood risks. Existing high-resolution topographic data are currently available from the NOAA Coastal Service Center at <http://csc.noaa.gov>.

### 3.1.10 Transportation

Transportation data were obtained from the Erie County and Incorporated Areas FIRM database dated August 28, 2008 (FEMA 2008a) and from the Lorain County and Incorporated Areas FIRM database dated August 19, 2008 (FEMA 2008b).

### 3.1.11 Watershed Boundaries

The Watershed Boundary Dataset Hydrologic Unit Code 8 (HUC8) boundaries were obtained from the U.S. Department of Agriculture Natural Resources Conservation Service GeoSpatial Data Gateway Web site <http://datagateway.nrcs.usda.gov/>.

Erie County contains portions of three HUC8 watersheds: Lake Erie (04120200), Sandusky (04100011), and Huron-Vermilion (04100012).

Lorain County contains portions of three HUC8 watersheds: Lake Erie (04120200), Black-Rocky (04110001), and Huron-Vermilion (04100012).

## 3.2 OTHER DATA AND INFORMATION

Erie County is located in north-central Ohio. Erie County is bounded on the north by Lake Erie, on the west by Sandusky County, on the northwest by Ottawa County, on the south by Huron County and on the east by Lorain County. Erie County is served by several major highways including interstate 80, Interstate 90, State Route 2 and U.S. Route 250 (FEMA 2008a) (see Discovery Maps in Attachment C).

Erie County is characterized by extremely flat topography. Over 90 percent of the region has a slope of less than 6 percent. The flat gradients reduce the probability of generating large flows with flashy conditions, although these types of events have been recorded (FEMA 2008a).

The climate is typical of the northern mid-continent but moderated by the surrounding water of Lake Erie. Northerly winds blowing off Lake Erie tend to lower daily high temperatures in summer and raise temperatures in winter. Summers are moderately warm and humid, while winters are reasonably cold and cloudy. Typical temperatures in the County for the summer range from 66 degrees Fahrenheit (°F) to 82 °F (recorded in July) and from 19 °F to 32 °F in winter (recorded in January). The average annual precipitation is 34.5 inches. The average annual snowfall is 23.3 inches, measured at Sandusky (FEMA 2008a).

Most of the area within Erie County lies on the flat, glaciated lake plain. Approximately 300 to 350 million years ago, large tropical inland seas covered the area, laying down thick deposits of organic and inorganic material. Sedimentary rocks of limestone, dolomite, shale, and sandstone were formed with over 20 percent of this bedrock within 5 feet of the surface. Beach ridges are apparent in the Townships of Vermilion and Berlin. The Township of Oxford and Margaretta also possess a number of less developed ridges. Alluvial stream deposits are found in the Townships of Milan and Huron. It is believed that they resulted from the buildup of a delta in the mouth of the Huron River. The Huron River meandered back and forth across the delta dissecting the area into deep, elongated troughs. Drainage of streams from the delta into the river valley causes lateral dissection of the area (FEMA 2008a).

Approximately 70 percent of the area within Erie County is covered by soil that exhibits poor drainage features (FEMA 2008a).

The majority of land in Erie County is covered by cropland, followed by forest, urban and pasture.

Lorain County is located on the southern shore of Lake Erie, approximately 25 miles west of Cleveland, Ohio. Lorain County is bounded on the north by Lake Erie, on the east by Cuyahoga County, on the south by Medina and Ashland Counties, and on the west by Erie and Huron Counties. Generally, the terrain is relatively flat in the northern half of the County and more hilly in the south (see Discovery Maps in Attachment C).

The climate of Lorain County is classified as continental. The temperatures in the winter range from 19.3 °F to 34.9 °F (recorded in January). The summer temperatures range from 62.5 °F to 85.0 °F (recorded in July). Summers are moderately warm and humid while winters are reasonable cold and cloudy. The mean annual temperature is 51.5 °F and the mean annual precipitation is 38.02 inches (FEMA 2008b).

### 3.2.1 Coastal Barrier Resources System

Coastal barriers are unique land forms that protect distinct aquatic habitats and serve as the mainland's first line of defense against damage from coastal storms and erosion. The Coastal Barrier Resources System (CBRS) defines a coastal barrier as a landform composed of unconsolidated shifting sand or other sedimentary material that is generally long and narrow and entirely or almost entirely surrounded by water. They are sufficiently above normal tides so that they usually have dunes and terrestrial vegetation.

The CBRS boundaries were downloaded from U.S. Fish and Wildlife Service Web site ([http://www.fws.gov/CBRA/Maps/Data\\_Disclaimer\\_Shapefiles.html](http://www.fws.gov/CBRA/Maps/Data_Disclaimer_Shapefiles.html)).

Erie County has CBRS along the shoreline near Sandusky Bay and Sheldon Marsh State Nature Preserve, Oberlin Beach, and Kelleys Island. Lorain County has no CBRS.

The CBRS layer is shown on the Discovery Maps in Attachment C.

### 3.2.2 Coastal Zone Protection Structures

The USACE maintains a large infrastructure of over 900 coastal structures in the United States. The coastal structures protect harbors and shore-based infrastructure, provide beach and shoreline stability control, provide flood protection, and protect coastal communities, roadways

and bridges, etc. Coastal structures include seawalls, bulkheads, revetments, dikes and levees, breakwaters, groins, sills/perched beaches and jetties and piers.

The coastal structure data were extracted from the Enterprise Coastal Inventory Database from the Engineer Research and Development Center, and were provided through USACE Buffalo District in July 2012.

The coastal structures in Erie and Lorain Counties are listed below and shown in the Discovery Maps.

### ***Erie County***

- Huron Harbor Disposal Area Dike, OH
- Huron Harbor East Breakwater, OH
- Huron Harbor West Pier, OH
- Sandusky Harbor East Jetty, OH
- Sandusky Harbor Rock Dike, OH
- Sandusky Harbor Spur Dike, OH
- Vermilion Harbor Detached Breakwater, OH
- Vermilion Harbor East Pier, OH
- Vermilion Harbor West Pier, OH
- Whites Landing Levee, OH

### ***Lorain County***

- Lakeview Park East Breakwater, OH
- Lakeview Park East Groin, OH
- Lakeview Park Middle Breakwater, OH
- Lakeview Park West Breakwater, OH
- Lakeview Park West Groin, OH
- Lorain Harbor East Breakwater, OH
- Lorain Harbor Disposal Area Dike, OH
- Lorain Harbor East Breakwater Shore Arm, OH
- Lorain Harbor East Pier, OH
- Lorain Harbor Outer Breakwater, OH
- Lorain Harbor West Breakwater, OH
- Lorain Harbor West Pier, OH

- Lorain Small Boat Harbor Main Breakwater, OH

During a review of the USACE oblique imagery, an additional 750 coastal structures along the Lake Erie U.S. coastline were identified. Man-made coastal structures visible from a map scale of 1:1,500 to 1:3,000 were marked and inventoried. The coastal structures for Erie and Lorain Counties are shown on the Discovery Maps.

### 3.2.3 Community Assistance Visits

Statewide Community Assistance Visits (CAVs) are part of the evaluation and review process used by FEMA and local officials to ensure that each community adequately enforces local floodplain management regulations to remain in compliance with NFIP requirements. Generally, a CAV consists of a tour of the floodplain, an inspection of community permit files, and meetings with local appointed and elected officials. During a CAV, observations and investigations focus on identifying issues in various areas, such as the community's floodplain management regulations (ordinance), community administration and enforcement procedures, engineering or other issues within the FIRMs, and other problems in the community's floodplain management.

Any administrative problems or potential violations identified during a CAV are documented in the CAV findings report. The community is notified and given the opportunity to correct those administrative procedures and remedy the violations to the maximum extent possible within established deadlines. If a CAV is closed, then the issues brought up in the CAV have been adequately addressed by the community.

The summary reports of CAV findings were extracted from FEMA Community Information System (CIS) (<https://portal.fema.gov/famsVuWeb/home>) on October 2, 2012.

The history of CAV activity in Erie and Lorain Counties is summarized in Table 7. The State has conducted six CAVs in coastal communities in Erie County and five CAVs in coastal communities in Lorain County.

In Erie County, there were no CAV records for the Village of Kelleys Island.

There are no open CAVs in Erie and Lorain Counties.

**Table 7: Summary of CAV Findings in Erie and Lorain Counties, OH**

County	CID	Community	CAV Date	Ordinance	Enforce-ment	Engineering	Other Problems	Biennial	Program Problems	violations	Remedial Actions	CAV closed*	Agency
Erie	390153	Erie County (Unincorporated Areas)	4/29/1998	Serious	Serious	None	None	N	N	Y	N	10/4/2006	State
	390153	Erie County (Unincorporated Areas)	3/21/2012	None	Minor	Minor	None	A	A	Y	-	Closed	State
	390595	Bay View, Village Of	6/15/1995	None	Serious	None	None	Y	N	Y	N	10/4/2006	State
	390154	Huron, City Of	5/2/1996	Serious	Minor	None	None	Y	N	N	N	12/13/2002	State
			5/20/2002	Serious	Serious	None	None	N	N	Y	Y	Closed	State
	390156	Sandusky, City Of	8/9/1993	Minor	Minor	Minor	None	N	Y	Y	N	10/5/2006	State
			9/20/1999	Serious	Minor	None	None	N	N	Y	N	10/5/2006	State
			9/20/2011	None	Serious	None	Minor	A	N	Y	-	Closed	State
	395374	Vermilion, City Of	3/28/1996	Serious	Minor	Minor	None	Y	N	Y	-	10/5/2006	State
			9/27/1999	Minor	Serious	Minor	Minor		Y	Y	N	6/7/2000	State
Lorain	390346	Lorain County (Unincorporated Areas)	6/6/1995	None	Minor	Minor	None	N	N	Y	N	7/11/1995	State
			3/26/2008	Serious	Serious	None	Minor	N	N	Y	-	7/14/2008	State
	390602	Avon Lake, City Of	5/24/1994	Serious	Minor	Serious	Minor	N	N	N	-	7/19/1994	State
	390351	Lorain, City Of	2/15/1994	None	Minor	None	None	N	N	Y	N	7/22/1994	State
	390602	Avon Lake, City Of	2/15/2000	None	None	Minor	None	N	Y	Y	Y	10/5/2006	State
	390355	Sheffield Lake, City Of	4/6/1995	Serious	Minor	None	None	Y	N	N	-	10/5/2006	State
	395374	Vermilion, City Of	3/28/1996	Serious	Minor	Minor	None	Y	N	Y	-	10/5/2006	State

CID = Community Identification Number; CAV = Community Assistance Visit

\* The issues brought up during a CAV have been adequately addressed before it is officially closed.



### 3.2.4 Community Rating System

The Community Rating System (CRS) is a voluntary incentive program to provide flood insurance premium discounts in NFIP-participating communities that take extra measures to manage floodplains above the minimum requirements. A point system is used to determine a CRS rating. The more measures a community takes to minimize or eliminate exposure to floods, the more CRS points are awarded and the higher the discount on flood insurance premiums.

The list of CRS communities is available on FEMA’s Web site at <http://www.fema.gov/library/viewRecord.do?id=3629> (FEMA 2011a).

No communities in Erie and Lorain Counties participate in the CRS program.

### 3.2.5 Comprehensive Plans

A comprehensive plan is a document that provides the framework and policy direction for land use decisions. Comprehensive plans usually include chapters detailing policy direction affecting land use, transportation, housing capital facilities, utilities, coastal and rural areas. Comprehensive plans identify where and how growth needs will be met.

Table 8 summarizes the status of the comprehensive plans in Erie and Lorain Counties.

**Table 8: Summary of Comprehensive Plans in Erie and Lorain Counties, OH**

Participating Jurisdiction	Comprehensive Plan Status	Web site
Erie County	Original 1970 Updated 1995	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/comprehensive-plans/">http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/comprehensive-plans/</a>
City of Sandusky	Under Development	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/comprehensive-plans/">http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/comprehensive-plans/</a>
Lorain County	2000	N/A

In Erie County, no comprehensive plans were found for the Village of Bay View, the City of Huron, the Village of Kelleys Island, and the City of Vermilion. In Lorain County, no comprehensive plans were found for, the City of Avon Lake, the City of Lorain, the City of Sheffield Lake, and the City of Vermilion.

The Erie County Comprehensive Plan (Erie County 1995) intends to guide future growth and development of the region and provide direction needed to achieve community goals. The plan summarizes the existing studies and regulations and provides the general strategies of several elements such as economic development, housing, environmental management, recreation, historical preservation, transportation, rural planning, and etc. The future zoning should be used regularly for zoning decisions, prioritizing public improvements and as a guide for residential, commercial and industrial development, and open space within the planning area. The plan assists in the final determination of the land use policies and future land use map.

A series of strategies included in the plan to preserve Lake Erie and other natural resources are listed below:

### Wetland Management Strategies

- The changing of existing drainage characteristics, flow patterns, or retention characteristics on lands adjacent to wetlands should be minimized through the site plan review process.
- Water or sewer facilities should not be extended to wetland areas.
- Development adjacent to wetlands should be appropriately buffered.
- Wetland conversion should be minimized throughout the planning area.

### Floodplain Management Strategies

- Existing floodplain regulations should be reviewed and updated as necessary.
- Areas in the vicinity of floodways should not be filled because this reduces the stream capacity and thereby increases flood heights.
- The submission of drainage plans should be included in the floodplain regulations as part of the floodplain permit process.
- Floodplains should be preserved in their natural state as much as possible.

### Storm Drainage Management Strategies

- The County has established stormwater regulations.
- A master plan for storm drainage should result in the near future.
- Existing drainage facilities should not be modified so as to discharge runoff or increase flow onto adjacent lands.
- Innovative construction approaches are encouraged for on and off site storm drainage.
- Natural systems should be utilized as much as possible for more effective storm drainage control.

### Shoreline Management Strategies

- Preserving existing undeveloped land along the shoreline should be encouraged as policy and as transitional areas between developed parcels and as a means of preserving natural lands.
- Parks or open space land along the shoreline should be fully incorporated into a County-wide greenway system.
- The County should be prepared to review and assist in the implementation of appropriate regulations which would enhance our area and become part of the Ohio Coastal Management Program.

City of Sandusky Comprehensive Plan is under development. Erie Regional Planning and the Sandusky Community Development staff have partnered together to develop the plan. The City of Sandusky Planning Commission will act as the Steering Committee during the process. Plan

elements will include land use, housing, economic development, commercial development, recreation/park facilities, transportation, infrastructure/utilities, environmental/natural resources and community facilities and services. The completed Comprehensive Plan will establish a framework for making land use decisions relative to development in the City of Sandusky. In addition, the finished plan will also contain a number of identified issues with corresponding action steps that will provide strategies for a number of elements related to growth.

Lorain County Comprehensive Plan was prepared for the Lorain County Planning Commission in 2000 (EMH&T 2004). It represented a vision for the overall development of the County over a period of 2 decades, extending through the year 2020. It was the first effort at countywide comprehensive planning in over 30 years.

At the County level, the Lorain County Comprehensive Plan has a number of specific areas of action recommended. The actions recommended are divided into Wastewater Treatment Plan, Transportation and Thoroughfare Plan, Environmental Strategic Plan, Subdivision Regulations, Capital Improvement Program, Stormwater Management Plan, Joint Economic Development Districts, Housing, Involvement of Rural Utilities in Planning and Continued Planning and Planning Assistance. Some of the actions include the following:

- Recommend preparing a countywide wastewater treatment plan.
- Recommend studying a broader multi-modal transportation issues is recommended.
- Adopt an environmental strategic plan within the next 3 years.
- Update the Subdivision Regulations to include areas not required to file for a zoning change and establish a desired pattern of development for these areas.
- Establish a formal process of selecting and scheduling projects for which the capital improvements budget is allocated through a Capital Improvement Program.
- Complete a Stormwater Management Plan.
- Adhere to mechanisms the Ohio legislature has created that allow adjoining townships and municipalities to enter into agreements that remove annexation conflicts.
- Ensure the County takes a more active role in providing affordable housing in all areas of the County.
- Involve the Lorain-Medina Rural Electric Cooperative and the Lorain County Rural Water Authority in the planning and development process.
- Establish a policy that implements periodic review and updates to plans to ensure they are always up to date.

### **3.2.6 Coordinated Needs Management Strategy and NFIP Mapping Needs**

FEMA's Coordinated Needs Management Strategy (CNMS) was initiated through FEMA's Risk MAP program in 2009. The CNMS is a FEMA initiative to update the way FEMA organizes, stores, and analyzes flood hazard mapping needs information for communities. The CNMS is only for riverine studies at this time. There are three classifications within the CNMS: "Valid," "Unverified," and "Unknown." New and updated studies (those with new hydrologic and

hydraulic models) performed during the Map Modernization program were automatically determined to be “Valid” and the remaining studies went through a 17-element validation process with 7 critical and 10 secondary elements. A stream study has to pass all of the critical elements and at least seven secondary elements to be classified as “Valid.” Studies that have a strong indication of change that may impact the delineation of the flood hazard or flood elevation (but warrant further analysis to validate the change) are classified as “Unverified.” Streams with a status of “Unknown” are those that have a study underway, will be evaluated in the future, or do not have sufficient information to determine whether they are “Valid” or “Unverified” (FEMA 2012b). Currently, all Ohio counties have undergone the CNMS classification process.

Table 9 summarizes the draft results of the validation analysis obtained from the CNMS in July 2012.

**Table 9: CNMS Status for Erie and Lorain Counties, OH**

County	FIPS Code	Stream Mileage			Total
		Valid	Unknown	Unverified	
Erie	39043	19.3	138.4	17.8	175.5
Lorain	39093	169.2	223.0	59.3	451.6

FIPS = Federal Information Processing Standards

### 3.2.7 Critical Facilities

Erie County Natural Hazards Mitigation Plan (EMH&T 2005) identified 129 critical facilities. The locations of critical facilities were listed in Appendix G of Erie County Natural Hazards Mitigation Plan (EMH&T 2005). Table 10 summarizes the types of critical facilities in Erie County.

**Table 10: Summary of Critical Facilities in Erie County, OH**

Facility Type	Numbers
Medical Facilities/Nursing Homes	9
Emergency Services	23
Schools	38
Community Facilities/Churches	26
Municipal/Government Facilities	31
Industry	1
Energy	1
Total Critical Facilities	129

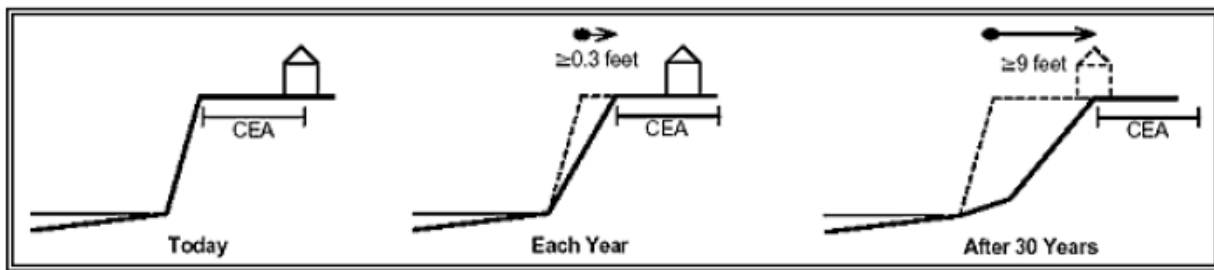
The Lorain County Natural Hazards Mitigation Plan (EMH&T 2004) identified 189 critical facilities. The locations of critical facilities were listed in Appendix G of Lorain County Natural Hazards Mitigation Plan (EMH&T 2004). Table 11 summarizes the types of critical facilities in Lorain County.

**Table 11: Summary of Critical Facilities in Lorain County, OH**

Facility Type	Numbers
Water/Wastewater Plants	4
Medical facilities	4
Police/EMS/Fire	56
School/Churches	122
Air Fields	3
Total Critical Facilities	189

**3.2.8 Critically Eroded Beaches and Beach Nourishment/Dune Replacement Projects**

Coastal Erosion Area Maps are discussed in Section 3.1.3 of this report. Figure 2 illustrates the effects of coastal erosion over a 30-year period.



*\*Source: Erie County Natural Hazards Mitigation Plan (EMH&T 2005)*

**Figure 2: Effects of Coastal Erosion**

General erosion rates for Lorain County, Erie County, and Sandusky Bay are shown in Table 12. The long-term recession rates cover the years 1877 to 1973 with the short-term rates representing data from 1973 to 1990 (ODNR 2011). They indicate that Sandusky Bay has greater erosion rates (both short-term and long-term) than the general shoreline in Erie and Lorain Counties.

**Table 12: Lake Erie Erosion Statistics – Lorain and Erie Counties, OH and Sandusky Bay**

County	Long-Term Distance (feet)	Long-Term Rate (feet/year)	Short-Term Distance (feet)	Short-Term Rate (feet/year)
Lorain	80	0.8	12	0.7
Erie	10.	1.6	42	2.5
Sandusky Bay (Erie, Ottawa, Sandusky)	241	2.8	32	1.8

To address the coastal erosion issue, ODNR began the preliminary stages of erosion management plan development in the late 1990s. More recently, ODNR began development of the formal Lake Erie Shore Erosion Management Plan (LESEMP) for local communities and individual

property owners to aid in the management of coastal erosion. The recommendations contained within the LESEMP will serve as a best practices reference for the management of erosion along Ohio’s coast. The LESEMP is a non-regulatory initiative and will not be used for implementation or enforcement of regulatory measures. The LESEMP is still under development with a few chapters completed. It is available at [http://www.ohiodnr.com/Coastal\\_Main\\_Menu/HelpforLandowners/ProgramsforResourceImprovement/LakeErieShoreErosionManagementPlan/LESEMP\\_Ch1\\_Introduction/tabid/23308/Default.aspx](http://www.ohiodnr.com/Coastal_Main_Menu/HelpforLandowners/ProgramsforResourceImprovement/LakeErieShoreErosionManagementPlan/LESEMP_Ch1_Introduction/tabid/23308/Default.aspx).

Some erosion-related projects can be found in Section 3.2.18: Mitigation Plans Status and Mitigation Projects.

### 3.2.9 Dams

The National Inventory of Dams (NID) is a congressionally authorized database that documents dams in the United States and its territories. The current NID, published in 2010, includes information on 84,000 dams that are more than 25 feet high, hold more than 50 acre-feet of water, or are considered a significant hazard if they fail. The NID is maintained and published by USACE, in cooperation with the Association of State Dam Safety Officials, the States and territories, and Federal dam-regulating agencies. The database contains information about the dams’ locations, sizes, purposes, types, last inspections, regulatory facts, and other technical data. The information contained in the NID is updated approximately every 2 years.

The NID is available at the USACE Web site: <https://nid.usace.army.mil/>.

The NID shows three dams in Erie County and 28 in Lorain County. As shown in Table 13, one of those dams in Erie County and seven of those dams in Lorain County have Emergency Action Plans. The locations of the dams are shown on the Discovery Maps.

**Table 13: Summary of Dams in Erie and Lorain Counties, OH**

FIPS Code	County	Number of Dams within County	Number of Dams with Emergency Action Plans	Numbers of Dams within Project Area
39043	Erie	3	1	0
39093	Lorain	28	7	0

The ODNR Dam Safety Program regulates the construction, operation, and maintenance of Ohio’s dams through the use of periodic inspections, permits, and regulations to protect them from damages due to failure. More information is available on the ODNR Dam Safety Web site <http://www.dnr.state.oh.us/water/tabid/3329/Default.aspx>.

### 3.2.10 Declared Disasters

The FEMA Disaster Declarations Summary is a summarized dataset describing all federally declared disasters. This information begins with the first disaster declaration in 1953 and features all three disaster declaration types: major disaster, emergency and fire management assistance. The dataset includes declared recovery programs and geographic areas (County not available before 1964).

The list of FEMA’s disaster declarations is available on the FEMA Web site <http://www.fema.gov/data-feeds> (FEMA 2012c).

Table 14 lists the major disaster declarations that have been declared in Erie and Lorain Counties, OH.

**Table 14: Declared Disasters in Erie and Lorain Counties, OH**

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
<b>Erie County</b>				
266	7/15/1969	DR	Tornado	Tornadoes, Severe Storms and Flooding
362	11/24/1972	DR	Flood	Severe Storms and Flooding
377	4/27/1973	DR	Flood	Severe Storms and Flooding
3055	1/26/1978	EM	Snow	Blizzards and Snowstorms
951	8/4/1992	DR	Severe Storm(s)	Severe Storms, Tornadoes and Flooding
1065	8/25/1995	DR	Severe Storm(s)	Severe Storms And Flooding
3187	9/23/2003	EM	Other	Power Outage
1556	9/19/2004	DR	Severe Storm(s)	Severe Storms And Flooding
3198	1/11/2005	EM	Snow	Snow
1651	7/2/2006	DR	Severe Storm(s)	Severe Storms, Tornadoes, Straight Line Winds, And Flooding
3346	06/30/2012	EM	Severe Storm(s)	Severe Storms
<b>Lorain County</b>				
191	4/14/1965	DR	Tornado	Tornadoes and Severe Storms
266	7/15/1969	DR	Tornado	Tornadoes, Severe Storms and Flooding
345	7/19/1972	DR	Flood	Tropical Storm Agnes
362	11/24/1972	DR	Flood	Severe Storms and Flooding
377	4/27/1973	DR	Flood	Severe Storms and Flooding
3029	2/2/1977	EM	Snow	Snowstorms
3055	1/26/1978	EM	Snow	Blizzards and Snowstorms
831	6/10/1989	DR	Flood	Severe Storms and Flooding
951	8/4/1992	DR	Severe Storm(s)	Severe Storms, Tornadoes and Flooding
1065	8/25/1995	DR	Severe Storm(s)	Severe Storms and Flooding

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
1444	11/18/2002	DR	Severe Storm(s)	Severe Storms and Tornadoes
3187	9/23/2003	EM	Other	Power Outage
1519	6/3/2004	DR	Severe Storm(s)	Severe Storms and Flooding
1556	9/19/2004	DR	Severe Storm(s)	Severe Storms and Flooding
1580	2/15/2005	DR	Severe Storm(s)	Severe Winter Storms, Flooding, and Mudslides
3346	06/30/2012	EM	Severe Storm(s)	Severe Storms

DR = Major Disaster  
EM = Emergency

### 3.2.11 Flood Insurance Policies

A community’s agreement to adopt and enforce floodplain management ordinances, particularly with respect to new construction, is an important element in making flood insurance available to home and business owners. For this Discovery project, data on flood insurance policies were also gathered.

Table 15 summarizes the numbers and premiums of insurance policies, the numbers and dollar amounts of paid losses, and the numbers of substantial damage in communities of Erie and Lorain Counties. The data were based on CAV Community Summary Reports that were extracted from FEMA CIS (<https://portal.fema.gov/famsVuWeb/home>) on December 21, 2011.

Data from the coastal-influenced communities are listed in Table 15.

**Table 15: Summary of Flood Insurance Policies and Claims in Erie and Lorain Counties, OH**

Community	CID	Total Number of Policies	Total Premiums (\$)	Insurance in Force (\$)	Total Number of Closed Paid Losses	\$ of Closed Paid Losses	# of Substantial Damage Closed Paid Losses
<b>Erie County</b>							
Erie County (Unincorporated Areas)	390153	344	\$270,364	\$46,431,300	191	\$1,555,988.94	22
Bay View, Village of	390595	32	\$26,259	\$4,185,200	4	\$37,843.03	0
Huron, City of	390154	87	\$73,609	\$18,028,800	105	\$732,297.03	10
Kelleys Island, Village of*	390738	-	-	-	-	-	-
Sandusky, City of	390156	525	\$283,355	\$88,629,100	225	\$960,958.70	1
Vermilion, City of	395374	242	\$291,847	\$53,677,100	323	\$3,834,830.31	12



Community	CID	Total Number of Policies	Total Premiums (\$)	Insurance in Force (\$)	Total Number of Closed Paid Losses	\$ of Closed Paid Losses	# of Substantial Damage Closed Paid Losses
<b>Lorain County</b>							
Lorain County (Unincorporated Areas)	390346	160	\$133,157	\$25,629,600	55	\$729,364.36	3
Avon Lake, City of	390602	24	\$9,645	\$5,192,900	4	\$29,908.98	0
Lorain, City of	390351	160	\$92,870	\$21,416,500	27	\$744,635.84	2
Sheffield Lake, City of	390355	25	\$18,355	\$3,390,600	5	\$14,257.94	0
Vermilion, City of	395374	242	\$291,847	\$53,677,100	323	\$3,834,830.31	12

CID = Community Identification Number

\* No insurance-related information was found in the CIS Web site

### 3.2.12 Gage Data

#### 3.2.12.1 Meteorological Stations

The National Data Buoy Center (NDBC) is a part of the NOAA National Weather Service. The NDBC designs, develops, operates, and maintains a network of data collecting buoys and coastal stations. NDBC provides hourly observations from a network of about 90 buoys and 60 Coastal Marine Automated Network (C-MAN) stations located nationally to measure wind speed, direction, and gust; atmospheric pressure; and air temperature. Water level is measured at selected stations. The historical and current data are available at the NDBC Web site <http://www.ndbc.noaa.gov/>.

In addition, NOAA’s Great Lakes Environmental Research Laboratory (GLERL) focuses on the Great Lakes. It maintains multiple datasets, including a collection of meteorological data for both the United States and Canada. The datasets can be found online at: <http://www.glerl.noaa.gov/ifyle/data/Station/Station.php?sta=All&year=All>. There are no GLERL stations in Erie and Lorain Counties.

Table 16 shows the meteorological station identification number and location for the gages in the Lake Erie Coastal Flood Study area for Erie and Lorain Counties. The station locations are shown on the Discovery Maps.

**Table 16: Meteorological Stations in Erie and Lorain Counties, OH**

Station ID	Location	Owner	Data	Years of Historical Data
HHLO1	Huron Light, OH	National Weather Service Eastern Region	Meteorological Observation	2007–Present
OWXO1	Old Woman Creek, OH	National Estuarine Research Reserve System	Meteorological Observation	2007–Present

**3.2.12.2 Stream Gages**

The U.S. Geological Survey (USGS) National Water Information System Web Interface (<http://waterdata.usgs.gov/nwis>) provides real-time data for any given stream gage location. Table 17 shows the gage identification numbers and locations for the gages in Erie and Lorain Counties. USGS stream gage locations are also shown on the Discovery Maps.

**Table 17: Stream Gage Stations in Erie and Lorain Counties, OH**

County	Gage ID	Begin Date	End Date	Gage Location
Erie	4199000*	4/1/50	Current	Huron River at Milan, OH
	4199155*	10/1/87	Current	Old Woman Creek at Berlin Rd near Huron, OH
Lorain	4199500 <sup>+</sup>	4/1/50	9/30/81	Vermilion River near Vermilion, OH
	4199750*	6/14/80	6/30/81	East Branch Black River near Lagrange, OH
	4200000*	8/1/22	11/30/35	East Branch Black River at Elyria, OH
	4200050*	6/14/80	6/30/81	West Branch Black River near Oberlin, OH
	4200430*	6/24/80	10/3/84	West Branch Black River above Lake St at Elyria, OH
	4200500*	10/1/44	Current	Black River at Elyria, OH

\*Gage expected to be outside of the storm surge inundation area

<sup>+</sup>Gage affected by tide, but expected to be outside of the storm surge inundation area

**3.2.12.3 Water Level Station**

NOAA’s Center for Operational Oceanographic Products and Services (CO-OPS) maintains several water level stations in the Lake Erie area. CO-OPS’ primary mission is the collection and dissemination of high-quality and accurate measurements of lake levels for scientific studies.

The station information and water level data are available at the NOAA CO-OPS Web site: [http://tidesandcurrents.noaa.gov/station\\_retrieve.shtml?type=Great Lakes Water Level Data&state=Lake+Erie&id1=841](http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Great Lakes Water Level Data&state=Lake+Erie&id1=841). There are no NOAA CO-OPS stations in Erie and Lorain Counties.

In addition, six gages are located along the Canadian shoreline of Lake Erie, as listed in Table 18. They are maintained by the Canadian Department of Fisheries and Oceans (DFO), Marine

Environmental Data Service. The data are available at the DFO Web site: <http://www.meds-sdmm.dfo-mpo.gc.ca/isdm-gdsi/twl-mne/index-eng.htm>.

**Table 18: Water Level Stations in Lake Erie along Canadian Shoreline**

Station ID	Location	Data	Year of Establishment
12005	Bar Point, ON	Primary Water Level	1966
12065	Kingsville, ON	Primary Water Level	1962
12250	Erieau, ON	Primary Water Level	1962
12400	Port Stanley, ON	Primary Water Level	1927
12710	Port Dover, ON	Primary Water Level	1962
12865	Port Colborne, ON	Primary Water Level	1962

Monthly water level data are available for multiple gages dating back to the 1860s, and the USACE Detroit District has monthly Great Lakes water levels and connecting channel outflows records dating back to 1918. The connecting channel outflows include Chicago Diversion, Detroit River, Long lac Diversion, New York State Barge Canal, Niagara River, Ogoki Diversion, St. Clair River, St. Lawrence River, St. Marys River, and Welland Canal.

The monthly high- and low-water-level data from the years 1918 to 2011 at Lake Erie are available at the USACE Web site:

<http://www.lre.usace.army.mil/greatlakes/hh/greatlakeswaterlevels/>.

The Great Lakes Water Levels Report provides daily mean water levels of Lake Erie for the past 3 months. The data are available at the USACE Web site:

<http://www.lre.usace.army.mil/greatlakes/hh/greatlakeswaterlevels/currentconditions/greatlakeswaterlevels/>.

### 3.2.12.4 Wave Gage/Buoy Stations

In addition to standard meteorological observation, all buoy stations and some C-MAN stations measure sea surface temperature and wave height and period. Conductivity and water current are measured at selected stations. The historical and current wave gage data are available at the NDBC Web site <http://www.ndbc.noaa.gov/>.

Table 19 shows the wave station identification number and location for the gages in the Lake Erie area. The station locations are shown on the Discovery Maps.

**Table 19: Wave Stations in Lake Erie**

Station ID	Location	Owner	Data	Years of Historical Data
45005	W ERIE 28NM Northwest of	National Data Buoy	Wave Height Meteorological	1980–

Station ID	Location	Owner	Data	Years of Historical Data
	Cleveland, OH	Center	Observation	Present
45132	Port Stanley	Environment Canada	Wave Height Meteorological Observation	1989– Present
45142	Port Colborne	Environment Canada	Wave Height Meteorological Observation	1994– Present

### 3.2.13 High Water Marks

No coastal High Water Mark (HWM) data were found prior to the Discovery Meeting from the USGS or USACE. Communities were asked about coastal HWMs during the Discovery Meeting; however, they did not have any data to provide.

### 3.2.14 Historical Flooding

In Erie and Lorain Counties, the principal flooding problem in communities bounded by Lake Erie is the high water level created by a combination of still water level and wind setup to the northeast.

These factors combined and resulted in the severe floods that occurred in the fall of 1972 and the spring of 1973. The 1972 flood reached a still water elevation of 575.8 feet (North American Vertical Datum of 1988 [NAVD 88]), which based on recurrence calculations is in the range of a 10- to 20-year flood, while the 1973 flood reached the elevation of 576.5 feet (NAVD 88) and would be rated as a 20- to 50-year flood. These floods affected a large portion of the central business district in the City of Huron. The high water levels also followed into the Huron River inland and caused flooding of the adjacent portion of the community (FEMA 2008a).

According to the Erie County Natural Hazard Mitigation Plan (EMH&T 2005), the National Climatic Data Center (NCDC) recorded 55 flood events from 1950 to 2004 for Erie County. The property damage total for these events was \$5.4 million, with \$115,000 in crop damage. No deaths or injuries were recorded for these events. The detailed list of the events could be found in Appendix H in Erie County Natural Hazard Mitigation Plan.

Erie County (EMH&T 2005) identified 2,136 structures within the 100-year floodplain: 1,292 of them were located in the unincorporated areas of the County. These structures would experience potentially negative impacts of flooding. On average, the County had \$491,000 per year in total damage, including property damage.

According to the Lorain County Natural Hazard Mitigation Plan (EMH&T 2004), NCDC has recorded 44 flood events from 1950 to 2004 for Lorain County. The property damage total for these events was \$20.7 million, with \$225,000 in crop damage. The detailed list of the events can be found in Appendix H in Lorain County Natural Hazard Mitigation Plan.

Lorain County (EMH&T 2004) identified 2,008 structures within the 100-year floodplain: 510 of those were in the unincorporated areas of the County. These structures would experience potentially negative impacts of flooding.

### 3.2.15 Land Use

Table 20 lists the latest land use data for Erie and Lorain Counties, OH.

**Table 20: Summary of Land Use in Erie and Lorain Counties, OH**

	Area (square miles)	Urban	Cropland	Pasture	Forest	Open Water	Wetlands	Bare/Mines
Erie	254.5	12.65%	53.38%	10.16%	16.17%	2.19%	1.77%	0.67%
Lorain	492.6	26.67%	38.32%	6.99%	22.64%	1.06%	4.32%	0.00%

Source: Ohio Department of Development 2011

In Erie County, agriculture is the primary land use. According to the 2002 Soil Survey of Erie County, in 1982, farms comprised 100,000 acres of the County, or 55 percent of Erie County’s land. Erie County had 535 farms, with an average size of 185 acres. Approximately 5,600 acres were used for pasture and 16,900 acres were urban or built-up land. However, this amount declined to 50 percent, or 90,000 acres of farmland, in 1992. These 90,000 acres consisted of 406 farms, with an average size of 219 acres. Approximately 94,900 acres were used for cropland, 6,700 acres were used for pasture, and 27,400 acres were urban or built-up land. Thus, although there was less farmland and a smaller number of farms, the average farm size increased. The difference in number of acres of farmland is most likely due to the conversion of farmland to urban or non-farm uses (EMH&T 2005).

The Erie County Comprehensive Development Plan (Erie County 1995) provided some guidelines on future land use:

- Promote community development through redevelopment, economic development, and constructing infrastructure to meet the demands for development.
- Provide all residents in the County adequate, affordable housing.
- Preserve the County heritage and those structures significant to its salvation for future generations.
- Maintain harmony between the manmade and natural environment by sustaining the County’s dedication to protecting the environment through its support of legislation and programs intended to preserve open spaces and natural habitat.
- Provide high-quality recreation facilities to meet the increasing demands of all residents who reside within the planning area.
- Ensure growth in employment will not be obtained through excessive costs to the environment or jeopardize the livability of the community.

- Become efficient and accessible through improvements to street systems, developing along roadways, and through transportation planning.
- Encourage growth in areas physically suited and already serviced by infrastructure.
- Expand water and sewer lines, and examine capacity issues and wastewater plant upgrade.

In Lorain County, approximately 22 percent is wooded. Forestland occurs sporadically across the entire County, with more extensive areas found on the Lake Plain in the northwest and northeast corners. Another 38 percent of land in Lorain County is cropland. Urban area is another significant land use in the County, with approximately 26 percent of area is urban land (Ohio Department of Development 2011).

Trees within the cities and villages of Lorain County comprise the urban and community forests of the County. Avon Lake, Elyria, and Oberlin received funding for tree planting and urban forestry management through the ODNR Urban Forestry Department. These communities have taken positive steps toward maintaining sustainable urban forests (EMH&T 2004).

In July 2000, the Lorain County Comprehensive Plan was prepared for the Lorain County Planning Commission at the request of the Board of Commissioners. Based on an analysis performed during this plan, approximately 50 percent of new residential growth projected to occur within the planning period can be located within the existing municipalities. Over the next 10 years, the cities of North Ridgeville and Avon Lake are expected to be the primary areas where development will take place (EHM&T 2004).

### 3.2.16 Levees

The Midterm Levee Inventory (MLI) project compiled a database of structures that were designed to provide at least the minimum level of protection from the base flood level (1-percent-annual-chance). The latest MLI Status Report was published in November 2011 by FEMA. The report indicated that 23 of 88 levees in Ohio Counties have been inventoried.

Erie and Lorain Counties have no levees in the MLI Levee database.

### 3.2.17 Letters of Map Change

A Letter of Map Change (LOMC) is a letter that reflects an official revision to an effective NFIP map. LOMCs are issued in place of the physical revision and republication of the effective FIRM. LOMCs include completed cases of Letters of Map Amendment (LOMAs) and Letters of Map Revision (LOMRs), including LOMRs based on fill (LOMR-Fs), and conditional LOMRs. The lists of LOMC cases were obtained from the FEMA Mapping Information Platform Web site (<https://hazards.fema.gov/femaportal/wps/portal>) in April 2012.

Table 21 lists the number of LOMCs in each County. No Conditional LOMRs, LOMAs, or LOMR-Fs were included. The LOMCs are shown on the Discovery Maps. Clusters of LOMCs indicate a need for updated maps.

**Table 21: Summary of LOMC Cases in Erie and Lorain Counties, OH**

County	Number of Letters of Map Amendment	Number of Letters of Map Revision	Number of Letters of Map Amendment within Project Area
Erie County	194	3	112
Lorain County	361	36	8

**3.2.18 Mitigation Plan Status and Mitigation Projects**

A local hazard mitigation plan is a long-term strategic/guidance document used by an entity to reduce future risk to life, property, and the economy in a community. A hazard mitigation plan has the following elements:

- A public participation process for bringing together diverse stakeholders in the jurisdiction(s) to provide an array of input into the plan,
- A risk assessment to identify the hazards, determine the people and property subject to those hazards, and estimate vulnerability
- A mitigation strategy that contains goals, objectives, and an action plan to implement priority mitigation actions that reduce risk
- A maintenance process to ensure the plan is reviewed and updated
- An adoption requirement to ensure the support from participating jurisdictions

Local mitigation plan are required to be updated every 5 years to maintain eligibility for FEMA Hazard Mitigation Assistance grant programs.

The status of current hazard mitigation plans is shown in Table 22. The data were obtained from FEMA’s Plan Approval Status Report based on Regional reports for the end of May 2012 (FEMA 2012d) as well as the Ohio Emergency Management Agency Mitigation Planning Web site (<http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp>).

**Table 22: Status of Hazard Mitigation Plans**

Participating Jurisdiction	Approval Date	Expiration Date	Second Approval Date	Link
Erie	1/28/2008	1/28/2013	N/A	<a href="http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp">http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp</a>
Lorain	1/29/2007	1/29/2012	N/A	<a href="http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp">http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp</a>

**3.2.18.1 Hazard Mitigation Grant Program**

Hazard mitigation initiatives are intended to actively reduce a community’s vulnerability to hazards and are developed to accurately reflect a community’s need. A variety of hazard mitigation projects has been submitted to FEMA’s Hazard Mitigation Grant Program. A list of completed projects was provided by FEMA in August 2012 and is summarized in Table 23. Only

one project was found in Lorain County. There were no projects in Erie County. The locations of the mitigated properties are shown on the Discovery Maps.

**Table 23: Hazard Mitigation Grant Projects**

Jurisdiction	Project Description
City of Lorain	The acquisition and demolition of five residential structures located within the floodplain, adjacent to a major storm tributary (Martins Run Creek) that empties into Lake Erie.

**3.2.18.2 Public Assistance Projects**

A list of Public Assistance-funded projects is available at the FEMA data feeds Web site (<http://www.fema.gov/data-feeds>).

In Erie County, there are 33 Public Assistance projects with \$204,389 of Federal share obligations.

In Lorain County, there are 12 Public Assistance projects with \$2,484,258 of Federal share obligations. One of the projects was awarded to Lorain Medina Rural Electric for damages due to a severe storm with \$2,402,875 of Federal share obligation.

**3.2.18.3 Ohio Coastal Management Assistance Grants**

To preserve, protect and enhance Ohio's Lake Erie coastal resources, the Ohio Coastal Management Program (OCMP) has provided grants help since 1998. More than \$3.5 million has been awarded to local communities through OCMP from NOAA. The grants are awarded on a competitive basis, with applicants providing a minimum of 50 percent of the project costs. This is a reimbursement grant program whereby the project sponsor is expected to make the initial outlays for the project and then request reimbursement.

The past grant projects are available at the ODNR Office of Coastal Management Web site ([http://ohiodnr.com/coastal/LakeErie/Grants\\_CMAG/tabid/9337/Default.aspx](http://ohiodnr.com/coastal/LakeErie/Grants_CMAG/tabid/9337/Default.aspx)) and summarized in Table 24.

**3.2.18.4 Great Lakes Coastal Restoration Grants**

Great Lakes Coastal Restoration Grants were part of a one-time \$30 million Congressional appropriation to the Great Lakes States. Ohio's portion of the funds was awarded 2001 and a portion re-appropriated in 2003.

Seventeen projects were funded with Ohio's portion of the Federal grants. Ohio's funding priorities were protection of critical coastal areas; water quality protection and coastal restoration; and sustainable development initiatives. Selected projects were consistent with OCMP priorities and helped implement the goals of the Lake Erie Protection and Restoration Plan. The recipient's share of total project costs was 20 percent.

The funds were provided by the U.S. Department of Commerce NOAA and were administered by the ODNR Office of Coastal Management. Proposals funded under this program were consistent with OCMP.



The grant projects are available at the ODNR Office of Coastal Management Web site ([http://ohiodnr.com/LakeErie/Grants\\_GLCRGs/tabid/9344/Default.aspx](http://ohiodnr.com/LakeErie/Grants_GLCRGs/tabid/9344/Default.aspx)) and are summarized in Table 24.

**3.2.18.5 Grants from Coastal and Estuarine Land Conservation Program**

Additional funding has been provided through Ohio's Coastal and Estuarine Land Conservation Program (CELCP) which is also administered by the Office of Coastal Management. CELCP submits up to three land acquisition projects annually to NOAA for funding consideration. NOAA reviews all applications, ranks the projects for funding priority and submits this list to Congress. Congress makes the final determination as to what projects are funded.

Since the CELCP began, Ohio has secured more than \$16.8 million for 18 projects that leveraged more than \$34 million local dollars to acquire and conserve over 3,130 acres.

The past grants are available at the ODNR Office of Coastal Management Web site ([http://ohiodnr.com/LakeErie/CELCP\\_Selections/tabid/20009/Default.aspx](http://ohiodnr.com/LakeErie/CELCP_Selections/tabid/20009/Default.aspx)) and are summarized in Table 24.

Erie County has received \$527,520 in OCMP Grants. This has allowed for projects totaling \$1,010,000.

Lorain County has received \$404,195 in OCMP Grants. This has allowed for projects totaling \$1,038,153.

**Table 24: Mitigation Projects in Erie and Lorain Counties (through OCMP Grants)**

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
2011	City of Vermilion	Sherod Park Beach Clean Up	Lake Erie Clean Up Grant	\$3,445	\$9,257
2011	Erie Soil and Water Conservation District	Lake Erie Public Access Site Clean Up Project	Lake Erie Clean Up Grant	\$1,164	\$2,338
2010	East Harbor State Park	East Harbor Region Naturalist Funding Project	CMAG	\$11,733	\$28,408
				(funds counted in Ottawa County totals)	
2009	Great Lakes Historical Society	<i>Anthony Wayne</i> Hull Survey	CMAG	\$13,250	\$44,850
2009	Sandusky Area Maritime Association	Commercial Fishing and Ice Harvesting Exhibit	CMAG	\$5,000	\$20,000
2008	Erie County Health Department	Old Woman Creek and Huron River Watershed Investigation	CMAG	\$42,957	\$87,329
2007	Great Lakes Historical Society	Nautical Archaeology: Training and Survey	CMAG	\$5,938	\$21,125
2007	Sandusky Area Maritime Museum	Sandusky Area Maritime Curriculum Guide	CMAG	\$5,000	\$14,000

## Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
2006	Sandusky Area Maritime Museum	Maritime Museum of Sandusky Video Presentation	CMAG	\$5,000	\$15,000
2006	Great Lakes Historical Society	Peachman Lake Erie Shipwreck Research Center	CMAG	\$31,875	\$86,825
2005	City of Sandusky	East Sandusky Bay Extension Project – MHD Property	306A	\$150,000	-
2005	City of Sandusky	Sandusky Parks and Recreation Comprehensive Master Plan	CMAG	\$40,000	\$99,249
2005	City of Sandusky	Bayfront Corridor Extension	CMAG	\$15,000	\$30,000
2004	Sandusky Area Maritime Association	Wetlands Exhibit	CMAG	\$30,000	\$103,412
2002	Vermilion Port Authority	McGarvey's Landing Marina Plans	CMAG	\$26,500	\$53,000
2001	Historic Vermilion, Inc.	Waterfront Feasibility Study	CMAG	\$15,000	\$30,000
2001	City of Sandusky	City of Sandusky Fishing Stations	CMAG	\$21,000	\$42,000
2000	City of Huron	Lake Front Park Adjacent Property	CMAG	\$12,500	\$25,000
1999	Village of Kelleys Island	Master Plan Revision	CMAG	\$33,500	\$56,502
1998	City of Huron	Huron Linear Parkway Plan	CMAG	\$35,000	\$50,000
1998	City of Vermilion	Sherod Park Development Study Feasibility	CMAG	\$40,000	\$75,120
<b>Total Coastal Grants To Erie County</b>				<b>\$527,520</b>	<b>\$1,010,000</b>
2008	City of Elyria	Elyria Greenway and Trail Comprehensive Plan	CMAG	\$19,000	\$38,000
2007	Lorain Port Authority	Riverwalk Extension	CMAG	\$78,250	\$156,500
2006	Lorain Port Authority	Lorain Diked Disposal Site Preliminary Master Plan	CMAG	\$25,000	\$50,000
2006	City of Lorain	City of Lorain Wastewater Plant Relocation Feasibility Study	CMAG	\$50,000	\$270,700
2005	Lorain County Board of Commissioners	Black River Watershed Action Plan	CMAG	\$33,800	\$67,600
2004	City of Sheffield Lake	Sheffield Lake Proposed Boat Ramp Sedimentation Study	CMAG	\$4,500	\$9,000
2002	City of Lorain	Sediment Trend Analysis in Maumee Bay Lake Erie	CMAG	\$30,000	\$60,000
2000	City of Vermilion	Showse Park Feasibility Study	CMAG	\$18,000	\$36,000
1999	The Great Lakes Historical Society	Computer System for Lake Erie Shipwreck Center	CMAG	\$5,645	\$10,353

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
1988	City of Lorain	Upper Black River Master Plan	CMAG	\$40,000	\$60,000
<b>Total Coastal Grants To Lorain County</b>				<b>\$404,195</b>	<b>\$1,038,153</b>

CMAG = Coastal Management Assistance Grant  
 306 or 306A = Section 306 Funds

### 3.2.18.6 Locality Identified Mitigation Projects

In the Erie County Natural Hazards Mitigation Plan (EMH&T 2005), seven action plans/proposed mitigation projects were identified for flooding related hazards and three for Lake/Stream bank erosion. The detailed lists of the proposed mitigation projects can be found in Appendix J in the Erie County Natural Hazards Mitigation.

In the Lorain County Natural Hazards Mitigation Plan (EMH&T 2004), 12 action plans/proposed mitigation projects were identified for flooding related hazards and 6 for Lake/Stream bank erosion. The detailed lists of the proposed mitigation projects can be found in Appendix K in the Lorain County Natural Hazards Mitigation.

### 3.2.19 Oblique Imagery

The USACE collected oblique imagery for the entire Great Lakes coastline in 2012. Oblique imagery is captured at an angle, as compared to the overhead view provided by orthophotos, and allows users a three-dimensional view of landscape, buildings, and other features. The oblique imagery for the entire Great Lakes Area can be viewed at <http://greatlakes.usace.army.mil/> and was also available for viewing during the Discovery Meetings. This dataset may be useful to communities during emergency response and planning as well as for the management of assets, critical facilities, and public properties along the Lake Erie shoreline.

### 3.2.20 Ordinances

County regulations regarding development within known flood hazard areas can range from ordinances with minimum NFIP requirements to strong, pro-active ordinances that not only regulate and protect new and improved development in existing Special Flood Hazard Areas (SFHA) but also seek to mitigate the growth of SFHAs caused by increased runoff from developed areas and the degradation of natural flood control areas, such as wetlands and forests.

Title 44 of the Code of Federal Regulations Sections 60.3(a)–(e) describe the NFIP floodplain ordinance levels and provide the minimum requirements for community participation in the NFIP. The proper ordinance level for each community is determined by the type of flooding that is present within the community, as shown in Table 25.

**Table 25: Floodplain Ordinance Levels**

Ordinance Level	Description
A	Floodplains have not been identified
B	Floodplains with no base flood elevations (BFEs)
C	Floodplains with BFEs or coastal flooding with no high-hazard areas (Zone V)
D	Floodplains with BFEs and floodways
E	Coastal high-hazard areas identified, but no floodways
D & E	Both floodways and coastal high-hazard areas

Ordinance level information for Erie and Lorain Counties is shown in Table 26 and Table 27, respectively.

**Table 26: Program Status and Ordinance Level for Erie County, OH**

Community Name	Program Status	Ordinance Level
Erie County (Unincorporated Areas)	Participating	D
Bay View, Village of	Participating	D
Huron, City of	Participating	D
Kelleys Island, Village of	Withdrawn	N/A
Sandusky, City of	Participating	D
Vermilion, City of	Participating	B

**Table 27: Program Status and Ordinance Level for Lorain County, OH**

Community Name	Program Status	Ordinance Level
Lorain County (Unincorporated Areas)	Participating	D
Avon Lake, City of	Participating	D
Lorain, City of	Participating	D
Sheffield Lake, City of	Participating	D
Vermilion, City of	Participating	D

### 3.2.21 Regulatory Mapping

The effective FIS for Erie County and Incorporated Areas (FEMA 2008a) is dated August 28, 2008. Each jurisdiction included in this countywide FIS was compiled from its previously printed FIS reports. The status of coastal influenced jurisdictions is listed in Table 28.

The flood elevation estimates for Lake Erie within Erie County were prepared by the USACE, Detroit District. The report was completed in April 1988 (USACE 1988).

The effective FIS for Lorain County and Incorporated Areas (FEMA 2008b) is dated August 19, 2008. Each jurisdiction included in this countywide FIS was compiled from its previously printed FIS reports. The status of coastal influenced jurisdictions is listed in Table 28.

The flood elevation estimates for Lake Erie within Lorain County were prepared by the USACE, Detroit District. The report was completed in April 1988 (USACE 1988).

**Table 28: Effective FIS Status of Erie and Lorain Counties, OH**

Community	CID	Product Types	Initial Flood Insurance Rate Map (FIRM)	Previous Flood Insurance Study (FIS)	Effective FIS
<b>Erie County</b>					
Erie County (Unincorporated Areas)	390153	FIS and FIRM	01/16/1981	07/16/1980	08/28/2008
Bay View, Village of	390595	FIS and FIRM	09/15/1977	September 1977	08/28/2008
Huron, City of	390154	FIS and FIRM	04/03/1978	October 1977	08/28/2008
Kelleys Island, Village of	390738	FIS and FIRM	08/28/2008	N/A*	08/28/2008
Sandusky, City of	390156	FIS and FIRM	07/05/1977	January 1977	08/28/2008
Vermilion, City of**	395374	FIS and FIRM	12/31/1970	March 1979	08/19/2008
<b>Lorain County</b>					
Lorain County (Unincorporated Areas)	390346	FIS and FIRM	02/04/1981	08/04/1980	08/19/2008
Avon Lake, City of	390602	FIS and FIRM	11/02/1977	November 1977	08/19/2008
Lorain, City of	390351	FIS and FIRM	08/15/1978	03/03/1992	08/19/2008
Sheffield Lake, City of	390355	FIS and FIRM	03/01/1978	September 1977	08/19/2008
Vermilion, City of**	395374	FIS and FIRM	12/31/1970	March 1979	08/19/2008

CID = Community Identification Number

\*There are no previously printed FIS reports for these communities.

\*\*City of Vermilion is located in Erie and Lorain Counties

Sources: FEMA, Community ID Search Report, Ohio, Dated April 10, 2012; FEMA, FIS Report, Erie County and Incorporated Area, Dated 08/28/2008; FEMA, FIS Report, Lorain County and Incorporated Area, Dated 08/19/2008

According to the Erie County Natural Hazard Mitigation Plan (EMH&T 2005), Kelleys Island has SFHAs identified but does not participate in the NFIP. The hazard areas for the Village of Kelleys Island were identified on August 17, 1981.

### 3.2.22 Repetitive Loss/Severe Repetitive Loss Properties

FEMA’s data suggest that claims for repetitive losses were filed in several communities in Erie and Lorain Counties, as shown in Table 29.

**Table 29: Summary of Repetitive Loss in Erie and Lorain Counties, OH**

County	CID	Community Name	No. of Rep Losses
Erie	390153	Erie County (Unincorporated Areas)	25
	390154	Huron, City of	12
	390156	Sandusky, City of	25
	395374	Vermilion, City of	33
Lorain	390602	Avon Lake, City of	2
	390346	Lorain County (Unincorporated Areas)	12
	390351	Lorain, City of	2

CID = Community Identification Number

### 3.2.23 Socioeconomic Analysis

Table 30 provides the census population data from 1990, 2000, and 2010 for Erie and Lorain Counties.

**Table 30: Summary of Census Population Data in Erie and Lorain Counties, OH**

County	1990 Population	2000 Population	2010 Population
Erie	76,779	79,551	77,079
Lorain	271,126	284,664	301,356

Source: US Census Bureau, 2010

Erie County: According to the U.S. Census Bureau (2010), the 2000 total population of Erie County was 79,551 and 77,079 in 2010. The County is expected to keep growing over the next 30 years, with an expected increase to 83,061 by 2030. The median age of the population is 42.5 and 14.6 percent of the population is minority (Ohio Department of Development 2011).

The majority of land in Erie County is covered by cropland, followed by forest, urban and pasture.

The economy of Erie County is based primarily in the industrial sector. Manufacturing automotive parts, bearings, machine tools, plastics and vinyl products, colorants, paints and food processing equipment are the primary types of industrial businesses located in the County. Erie County also has a diversified service sector composed of government, medicine, religion, and

education. It is home to the Plum Brook Station of the National Aeronautic and Space Administration. The Plum Brook Station is one of their most vital and active test facilities, operating four test facilities including the Space Power Facility, Spacecraft Propulsion Research Facility, Hypersonic Tunnel Facility and the Cryogenic Propellant Tank Facility. Medicine is centered at Firelands Regional Medical Center. Erie County is a major center for transportation, manufacturing, retailing, and agriculture. It ranks third among Ohio's 88 counties at attracting shoppers (EMH&T 2005).

Erie County became increasingly involved in preservation of historical aspects. For example, the ODNR developed plans for the Lake Erie Islands Underwater Preserve, which would include numerous shipwrecks between Kelleys Island and the Bass Islands (ODNR 2003). The 42-square-mile preserve would run from the east side of the Kelleys Island Shoal westerly to near the east side of the Bass Islands and north to near Lake Erie's Ohio-Canadian border. In addition to numerous shipwrecks, the preserve will also include significant underwater geological features such as glacial grooves.

Lorain County: According to the U.S. Census Bureau (2010), the 2000 total population of Lorain County was 284,664 and 301,356 in 2010. The County is expected to keep growing over the next 2 decades, with an expected increase in population to 312,540 by 2030 (Ohio Department of Development 2011).

The majority of land in Lorain County is covered by cropland, followed by forest and urban area.

Employment statistics show that the service industry represents the largest segment of jobs at over 80 percent of the work force, including trade, transportation and utilities, information, financial services, professional and business services, education and health service, leisure and hospitality, etc. The rest of employment comes from the goods-producing sector, such as construction and manufacturing (Ohio Department of Development 2011).

### 3.2.24 Transects

Cross-shore transects are used during coastal hazards analysis and mapping to define representative profiles for a shoreline reach to model coastal flood risks inland of the shoreline. The transect layout for coastal hazards analysis and subsequent floodplain delineation is determined by physical factors such as changes in topography, bathymetry, shoreline orientation, and land cover data, in addition to societal factors such as variations in development and density. These physical and societal factors along with aerial photographs were reviewed to determine the appropriate placement for hazard modeling transects.

Transects were spaced at closer intervals (approximately two transects per shoreline mile) for more populated and varying coastal areas. In areas of low population and uniform coastline, transects were placed approximately 1 to 2 miles apart.

The draft transect layout is shown on the Discovery Maps. There are 56 proposed transects in Erie County and 28 in Lorain County.

### 3.2.25 Other Resources

The Great Lakes Coastal Resilience Planning Guide Web site (<http://greatlakesresilience.org/>) provides helpful information on coastal topics and digital coastal GIS data inventory.

### SECTION FOUR DISCOVERY MEETING

The Discovery Meeting for Erie and Lorain Counties was held on August 1, 2012 in Vermilion, OH. Communities affected by coastal flooding in Erie and Lorain Counties were invited to the Discovery meeting and 14 people, including representatives from FEMA, State agencies, and communities, attended the meeting. The purpose of this meeting was to facilitate discussion about study needs, mitigation project needs, desired compliance support, and local flood risk awareness efforts. During the Discovery Meeting, fact sheets on the Great Lakes Coastal Flood Study were distributed. These fact sheets can be obtained from the project Web site at: <http://www.greatlakescoast.org/tag/fact-sheets/>.

Discovery Maps were displayed at the meeting to stimulate the discussion. Attendees, including affected communities and selected other stakeholders, were asked to cooperatively identify Areas of Concern within the Great Lakes Coastal Study area.

Discovery Meeting Minutes and all other meeting materials are included in Attachments C and D.



## SECTION FIVE RISK MAP PROJECTS AND NEEDS

### 5.1 COASTAL STUDIES

Information and data collected as part of the Lake Erie Discovery effort and provided in this report will be used in the upcoming Great Lakes Coastal Flood Study for Lake Erie. A summary of the Great Lakes Coastal Flood Study project can be found at <http://www.greatlakescoast.org/> under the “Great Lakes Coastal Analysis & Mapping” section.

The upcoming study is expected to include the following tasks: creation of bathymetric and topographic data, base map acquisition, coastal flood hazard analysis, and Risk MAP product development.

### 5.2 MITIGATION PROJECTS

Flood mitigation is any action taken to reduce risk to people or property from flooding and its effects. Mitigation actions reduce flood risk to existing and future structures and their occupants, and are the foundation of most communities’ flood mitigation efforts.

Examples of mitigation actions include:

- Creating or updating Hazard Mitigation Plans
- Adopting standards beyond NFIP minimums for flood loss reduction
- Acquiring or relocating insured structures to reduce claims on the NFIP
- Elevating floodprone structures above the 1-percent-annual-chance flood
- Elevating or dry floodproofing insured non-residential structures
- Drainage projects that protect NFIP insured properties
- Retrofitting existing buildings and facilities
- Vegetative management/ soil stabilization

The Hazard Mitigation Plan Status and Mitigation Projects for Erie and Lorain Counties are described in Section 3.2.18.

As this Lake Erie coastal project moves forward, continued discussion regarding FEMA partnerships with local communities will be essential to assist in developing new mitigation actions and moving those actions forward.

### 5.3 COMPLIANCE

During the Discovery process, compliance issues were identified and discussed. Erie and Lorain Counties have no open CAVs. Open CAVs can be an indicator of unresolved floodplain management issues. The type of floodplain management ordinances that each community has adopted may need to be changed once the Lake Erie Study is complete. As discussed in the Ordinance section of this report, the City of Vermilion and the Village of Kelleys Island, both in Erie County, will likely need to update their floodplain management ordinances at the completion of the study because they are the only two coastal communities without ordinances at

a level D. Once the Lake Erie coastal study is complete, all communities should re-evaluate their ordinances and update them as required to maintain compliance with local and NFIP regulations.

### 5.4 COMMUNICATION

Throughout the Discovery process, community representatives and local stakeholders indicated a desire to be kept informed about the results of Discovery, the upcoming coastal flood study, and opportunities for public input throughout the study process. As a result of communication to date, new stakeholders have been identified and added to the master contact database for this study.

Ongoing communication and coordination will continue to be an essential part of the Lake Erie Coastal Flood Study. Throughout Discovery, Federal, State, and local stakeholders were kept informed via email, letters, newsletters, and meetings. The Great Lakes Coastal Flood Study Web site (<http://www.greatlakescoast.org>) is an excellent resource where stakeholders can obtain the most update-to-date information about the status of the Great Lakes Coastal Flood Study, data collection, upcoming meetings, new technical reports, the latest methodologies, fact sheets, and additional information. Social media sites, such as Twitter and Facebook, are also being used for the Great Lakes Coastal Flood Study.

### 5.5 UNMET NEEDS

During the Discovery Meetings, Lake Erie stakeholders had some concerns about adoption of new coastal floodplain maps and having to update zoning ordinances. There are currently no Zone V areas mapped along the Lake Erie shoreline and it is likely that the new flood study would result in the establishment of V Zones. As a result, communities would need to adopt more restrictive floodplain management ordinances.

At the conclusion of the Lake Erie Coastal Study, communities can examine the results of the study and determine if their existing mitigation projects and floodplain management programs are adequate or if they have needs that have not been met by the new study.

## **SECTION SIX      CLOSE**

State and local stakeholders were interested in the Discovery process and in providing local data that may assist in the upcoming Lake Erie Flood Study. Many stakeholders are interested in learning more about the new methodologies being used as part of the Great Lakes Coastal Flood studies, and how their community will be affected by the flood study. The information gathered in this Discovery process will provide invaluable information as the Lake Erie Coastal Flood Study proceeds.

## **SECTION SEVEN ATTACHMENTS**

Attachment A: Communications

Attachment B: Data Collection

Attachment C: Discovery Maps

Attachment D: Discovery Meeting

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**SECTION EIGHT REFERENCES**

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# Attachment A: Communications

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Attachment A-1: Local Stakeholder Contact Information

Attachment A-2: Discovery Meeting Invitations

Attachment A-3: Information Exchange Session Presentation

# Attachment A-1

## Local Stakeholder Contact Information



Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
Alliance for the Great Lakes	<a href="http://www.greatlakes.org/contact">http://www.greatlakes.org/contact</a>	Angela Larsen	Coastal Program Manager	17 N. State St., Suite 1390	Chicago, IL 60602	312-939-0838, ext. 233	<a href="mailto:alarsen@greatlakes.org">alarsen@greatlakes.org</a>	Organization	Environmental	Region	All Lake Erie
Alliance for the Great Lakes	<a href="http://www.greatlakes.org/contact">http://www.greatlakes.org/contact</a>	Ohio Office Representative		PO Box 552	Chagrin Falls, OH 44022	216-630-8140	<a href="mailto:ohio@greatlakes.org">ohio@greatlakes.org</a>	Organization	Environmental	Ohio	Ohio
Coastal States Organization	<a href="http://www.coastalstates.org">http://www.coastalstates.org</a>	Representative for Lake Erie		Hall of the States, 444 North Capitol Street NW, Suite 322	Washington, D.C. 20001	202-508-3860	<a href="mailto:cso@coastalstates.org">cso@coastalstates.org</a>	Organization	Environmental	Region	All Lake Erie
Council of Great Lake Industries	<a href="http://www.cgli.org/">http://www.cgli.org/</a>	Representative for Lake Erie		3600 Green Ct., Suite 710	Ann Arbor, MI 48105	734-663-1944	<a href="mailto:StraderCo@aol.com">StraderCo@aol.com</a>	Organization	Development	Region	All Lake Erie
Council of Great Lakes Governors	<a href="http://www.cglg.org/contact/index.asp">http://www.cglg.org/contact/index.asp</a>	Zoë Munro	Program Manager	20 North Wacker Drive, Suite 2700	Chicago, IL 60606	312-407-0177	<a href="mailto:zmunro@cglg.org">zmunro@cglg.org</a>	Organization	Government	Region	All Lake Erie
Council of Great Lakes Governors	<a href="http://www.cglg.org/contact/index.asp">http://www.cglg.org/contact/index.asp</a>	David Naftzger	Executive Director	20 North Wacker Drive, Suite 2700	Chicago, IL 60606	312-407-0177	<a href="mailto:dnaftzger@cglg.org">dnaftzger@cglg.org</a>	Organization	Government	Region	All Lake Erie
Great Lakes Commission	<a href="http://www.glc.org">http://www.glc.org</a>	Tim A. Eder	Executive Director	2805 S. Industrial Hwy, Suite 100	Ann Arbor, MI 48104-6791	734-971-9135	<a href="mailto:teder@glc.org">teder@glc.org</a>	Organization	Development	Region	All Lake Erie
Great Lakes United	<a href="http://www.glc.org">http://www.glc.org</a>	Brent Gibson	Director of Communications	4380 Main Street	Amherst, NY 14226	716-886-0142	<a href="mailto:bgibson@glu.org">bgibson@glu.org</a>	Organization		Region	All Lake Erie
Ohio Lakefront Group	<a href="http://www.ohiolakefrontgroup.com/about/ohio-lakefront-group-board-of-directors/">http://www.ohiolakefrontgroup.com/about/ohio-lakefront-group-board-of-directors/</a>	Greg Baepler	Chairman	P.O. Box 2084	Sheffield Lake, OH 44054	440-925-0148	<a href="mailto:gbaeppler@att.net">gbaeppler@att.net</a>	Organization	Community	Ohio	Ohio
Village of Bay View Village Council	<a href="http://villageofbayview.com/main">http://villageofbayview.com/main</a>	Barb Wobser	Council President	304 East Bay View Drive	Sandusky, OH 44870	419-684-5315	<a href="mailto:bwobser@villageofbayview.com">bwobser@villageofbayview.com</a>	Community	Government	Erie, OH	Bay View, Village of
Village of Bay View Mayor's Office	<a href="http://villageofbayview.com/main">http://villageofbayview.com/main</a>	Paul Snyder	Mayor	304 East Bay View Drive	Sandusky, OH 44870	419-684-5315	n/a	Community	Government	Erie, OH	Bay View, Village of
Village of Berlin Heights	<a href="http://villageofberlinheights.com/Fire_Department.html">http://villageofberlinheights.com/Fire_Department.html</a>	Jim Vartorella	Fire Chief	8 West Main Street, PO Box 30	Berlin Heights, OH 44814	419-588-2225	n/a	Community	Emergency Management	Erie, OH	Berlin Heights, Village of
Village of Berlin Heights	<a href="http://villageofberlinheights.com/index.html">http://villageofberlinheights.com/index.html</a>	John Zimmerman	Building Inspector	8 West Main Street, PO Box 30	Berlin Heights, OH 44814	419-433-2755	n/a	Community	Building	Erie, OH	Berlin Heights, Village of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/ Watershed	Community
Village of Berlin Heights	<a href="http://villageofberlinheights.com/index.html">http://villageofberlinheights.com/index.html</a>	Kelly Moon	Mayor	8 West Main Street, PO Box 30	Berlin Heights, OH 44814	419-588-2701	n/a	Community	Government	Erie, OH	Berlin Heights, Village of
Village of Berlin Heights	<a href="http://villageofberlinheights.com/index.html">http://villageofberlinheights.com/index.html</a>	Nancy Tittle	Zoning Committee	8 West Main Street, PO Box 30	Berlin Heights, OH 44814	419-588-2362	n/a	Community	Zoning	Erie, OH	Berlin Heights, Village of
Village of Berlin Heights	<a href="http://villageofberlinheights.com/index.html">http://villageofberlinheights.com/index.html</a>	Richard Close	Council President	8 West Main Street, PO Box 30	Berlin Heights, OH 44814	419-588-2701	n/a	Community	Government	Erie, OH	Berlin Heights, Village of
Village of Castalia	<a href="http://www.manta.com/c/mtklvb5/castalia-village-mayor">http://www.manta.com/c/mtklvb5/castalia-village-mayor</a>	Mayor of the Village of Castalia		126 Depot St.	Castalia, OH 44824	419-684-5161	n/a	Community	Government	Erie, OH	Castalia, Village of
Ohio Coastal Training Program, ODNR Division of Wildlife, Old Woman Creek National Estuarine Research Reserve	<a href="http://www.oldwomancreek.org">www.oldwomancreek.org</a>	Heather Elmer	Ohio Coastal Training Program	2514 Cleveland Road East	Huron, OH 44839	(419) 433-4601	<a href="mailto:heather.elmer@dnr.state.oh.us">heather.elmer@dnr.state.oh.us</a>	Organization	Watershed	Erie, OH	Erie County, OH
Erie County, OH Engineer's Office	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/county-services/erie-county-engineer/">http://www.eriecounty.oh.gov/departments-and-agencies/county-services/erie-county-engineer/</a>	John D. Farschman, P.E., P.S.,	County Engineer	2700 Columbus Avenue	Sandusky, OH 44870-5551	419-627-7710	<a href="mailto:ECCEO@eriecounty.oh.gov">ECCEO@eriecounty.oh.gov</a>	County	Engineering	Erie, OH	Erie County, OH
Erie County, OH Administrator	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/county-services/erie-county-administrator/">http://www.eriecounty.oh.gov/departments-and-agencies/county-services/erie-county-administrator/</a>	Michael J. Bixler	Administrator	2900 Columbus Avenue	Sandusky, OH 44870	419- 627-7682		County	Government	Erie, OH	Erie County, OH
Erie County, OH Regional Planning Commission	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/">http://www.eriecounty.oh.gov/departments-and-agencies/economic-development/erie-regional-planning-commission/</a>	Steve Poggiali	Director	2900 Columbus Avenue	Sandusky, OH 44870	419-627-7792	<a href="mailto:Planning@eriecounty.oh.gov">Planning@eriecounty.oh.gov</a>	County	Planning	Erie, OH	Erie County, OH
Erie County Office of Homeland Security and Emergency Management	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/health-and-safety/emergency-management/">http://www.eriecounty.oh.gov/departments-and-agencies/health-and-safety/emergency-management/</a>	Tim Jonovich	Director	2900 Columbus Ave	Sandusky, OH 44870	419-627-7617	<a href="mailto:tjonovich@eriecounty.oh.gov">tjonovich@eriecounty.oh.gov</a>	County	Emergency Management	Erie, OH	Erie County, OH
Erie County, OH Soil and Water Conservation District	<a href="http://www.eriecounty.oh.gov/departments-and-agencies/environmental-resources/erie-soil-and-water-conservation-district/">http://www.eriecounty.oh.gov/departments-and-agencies/environmental-resources/erie-soil-and-water-conservation-district/</a>	Tim White	District Director	2900 Columbus Avenue, Room 131	Sandusky, OH 44870	419-626-5211	<a href="mailto:eswcd@eriecounty.oh.gov">eswcd@eriecounty.oh.gov</a>	County	Soil & Water	Erie, OH	Erie County, OH
City of Huron	<a href="http://www.cityofhuron.org/huron/">http://www.cityofhuron.org/huron/</a>	Andrew D. White	City Manager	417 Main Street	Huron, OH 44839	419-433-5000	<a href="mailto:citymanager@cityofhuron.org">citymanager@cityofhuron.org</a>	Community	Government	Erie, OH	Huron, City of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
City of Huron	<a href="http://www.cityofhuron.org/huron/city-council.html">http://www.cityofhuron.org/huron/city-council.html</a>	Christine M. Gibboney	Clerk of Council	417 Main Street	Huron, OH 44839	419-433-5000 ext 103	<a href="mailto:cgibboney@cityofhuron.org">cgibboney@cityofhuron.org</a>	Community	Government	Erie, OH	Huron, City of
City of Huron – Planning Commission	<a href="http://www.cityofhuron.org/huron/building-department.html">http://www.cityofhuron.org/huron/building-department.html</a>	Gary Boyle	Chairperson	1820 Bogart Road	Huron, OH 44839	419-433-2755	n/a	Community	Planning	Erie, OH	Huron, City of
City of Huron – Building Department	<a href="http://www.cityofhuron.org/huron/building-department.html">http://www.cityofhuron.org/huron/building-department.html</a>	John Zimmerman	Building Official	1820 Bogart Road	Huron, OH 44839	419-433-2755	<a href="mailto:jzimmerman@huron.twp.org">jzimmerman@huron.twp.org</a>	Community	Building	Erie, OH	Huron, City of
City of Huron	<a href="http://www.cityofhuron.org/huron/city-council.html">http://www.cityofhuron.org/huron/city-council.html</a>	Rick Schaffter	Mayor	417 Main Street	Huron, OH 44839	419-433-5000	<a href="mailto:rschaffter@cityofhuron.org">rschaffter@cityofhuron.org</a>	Community	Government	Erie, OH	Huron, City of
City of Huron – Fire Department	<a href="http://www.cityofhuron.org/huron/fire-department.html">http://www.cityofhuron.org/huron/fire-department.html</a>	Steve Osterling	Chief	413 Main Street	Huron, OH 44839	419-433-3544	<a href="mailto:sosterling@cityofhuron.org">sosterling@cityofhuron.org</a>	Community	Emergency Management	Erie, OH	Huron, City of
City of Huron – Board of Building and Zoning Appeals	<a href="http://www.cityofhuron.org/huron/building-department.html">http://www.cityofhuron.org/huron/building-department.html</a>	Tom Sprunk	Chair	1820 Bogart Road	Huron, OH 44839	419-433-2755	n/a	Community	Zoning	Erie, OH	Huron, City of
Huron Township	<a href="http://www.hurontwp.org/elected-officials.htm">http://www.hurontwp.org/elected-officials.htm</a>	Don Ritzenhaler	Trustee	1820 Bogart Road	Huron, OH 44839	419-433-2755	<a href="mailto:dritz@hurontwp.org">dritz@hurontwp.org</a>	Township	Government	Erie, OH	Huron, Township of
Huron Township	<a href="http://www.hurontwp.org/bldg-generalinformation.htm">http://www.hurontwp.org/bldg-generalinformation.htm</a>	Tammy Boos		1820 Bogart Road	Huron, OH 44839	419-433-2755	<a href="mailto:tboos@hurontwp.org">tboos@hurontwp.org</a>	Township	Building	Erie, OH	Huron, Township of
Village of Kelleys Island	<a href="http://www.kelleysisland.us/divisions/">http://www.kelleysisland.us/divisions/</a>	Carol Nelson-Burns	Clerk for Planning Commission & Board of Zoning Appeals	121 Addison Street	Kelleys Island, OH 43438-0469	n/a	<a href="mailto:pc@kelleysisland.us">pc@kelleysisland.us</a>	Community	Planning	Erie, OH	Kelleys Island, Village of
Village of Kelleys Island – Village Council	<a href="http://www.kelleysisland.us/divisions/">http://www.kelleysisland.us/divisions/</a>	Dennis Kaminski	Council Member	121 Addison Street	Kelleys Island, OH 43438-0469	n/a	n/a	Community	Government	Erie, OH	Kelleys Island, Village of
Village of Kelleys Island – Lands & Buildings Committee	<a href="http://www.kelleysisland.us/divisions/">http://www.kelleysisland.us/divisions/</a>	Gary Finger	Council Member	121 Addison Street	Kelleys Island, OH 43438-0469	n/a	n/a	Community	Building	Erie, OH	Kelleys Island, Village of
Village of Kelleys Island	<a href="http://www.kelleysisland.us/divisions/">http://www.kelleysisland.us/divisions/</a>	Kyle Paine	Mayor	121 Addison Street	Kelleys Island, OH 43438-0469	419-746-2535	n/a	Community	Government	Erie, OH	Kelleys Island, Village of
Village of Kelleys Island	<a href="http://www.kelleysisland.us/divisions/">http://www.kelleysisland.us/divisions/</a>	Scott Stevenson	Village Administrator	121 Addison Street	Kelleys Island, OH 43438-0469	n/a	n/a	Community	Government	Erie, OH	Kelleys Island, Village of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
Margaretta Township Board of Trustees	<a href="http://www.margarettatwp.org/electedofficials/elected.htm">http://www.margarettatwp.org/electedofficials/elected.htm</a>	Joe Bias Jr.	Chairman	114 Main Street	Castalia, OH 44825	419-684-5686	<a href="mailto:jbias@margarettatwp.org">jbias@margarettatwp.org</a>	Township	Government	Erie, OH	Margeretta, Township of
Margaretta Township Zoning/Building Department	<a href="http://www.margarettatwp.org/zoning/zoning.htm">http://www.margarettatwp.org/zoning/zoning.htm</a>	Tom Johnson	Zoning Inspector	114 Main Street	Castalia, OH 44825	419-684-9500	<a href="mailto:zoning@margarettatwp.org">zoning@margarettatwp.org</a>	Township	Zoning	Erie, OH	Margeretta, Township of
City of Sandusky - Department of Planning, Engineering & Development	<a href="http://www.ci.sandusky.oh.us/community-dev/mission.htm">http://www.ci.sandusky.oh.us/community-dev/mission.htm</a>	Carrie Handy	Chief Planner	222 Meigs Street	Sandusky, OH 44870	419-627-5873	<a href="mailto:chandy@ci.sandusky.oh.us">chandy@ci.sandusky.oh.us</a>	Community	Planning	Erie, OH	Sandusky, City of
City of Sandusky - Department of Planning, Engineering & Development	<a href="http://www.ci.sandusky.oh.us/engineering/engineering-contact.htm">http://www.ci.sandusky.oh.us/engineering/engineering-contact.htm</a>	Jane Cullen	CAD Technician	222 Meigs Street	Sandusky, OH 44870	419-627-5932	<a href="mailto:jcullen@ci.sandusky.oh.us">jcullen@ci.sandusky.oh.us</a>	Community	Engineering	Erie, OH	Sandusky, City of
City of Sandusky – City Commissioners	<a href="http://www.ci.sandusky.oh.us/city-commission/commissioners.htm">http://www.ci.sandusky.oh.us/city-commission/commissioners.htm</a>	John F. Hamilton	President	222 Meigs Street	Sandusky, OH 44870	419-627-5844	<a href="mailto:jhamilton@ci.sandusky.oh.us">jhamilton@ci.sandusky.oh.us</a>	Community	Government	Erie, OH	Sandusky, City of
City of Sandusky	<a href="http://www.ci.sandusky.oh.us/citymgr.htm">http://www.ci.sandusky.oh.us/citymgr.htm</a>	Nicole Ard	City Manager	222 Meigs Street	Sandusky, OH 44870	419-627-5844	<a href="mailto:nard@ci.sandusky.oh.us">nard@ci.sandusky.oh.us</a>	Community	Government	Erie, OH	Sandusky, City of
City of Sandusky - Department of Planning, Engineering & Development	<a href="http://www.ci.sandusky.oh.us/engineering/engineering-contact.htm">http://www.ci.sandusky.oh.us/engineering/engineering-contact.htm</a>	Todd Roth, P.E., P.S.	Director of Engineering Services	222 Meigs Street	Sandusky, OH 44870	419-627-5830	<a href="mailto:troth@ci.sandusky.oh.us">troth@ci.sandusky.oh.us</a>	Community	Engineering	Erie, OH	Sandusky, City of
Vermilion Township Board of Trustees	<a href="http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=48&amp;Itemid=53">http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=48&amp;Itemid=53</a>	Charles Trinter	Chairman	1907 State Rd.	Vermilion, OH 44089	440-967-3719	<a href="mailto:Trinterct@centurytel.net">Trinterct@centurytel.net</a>	Township	Government	Erie, OH	Vermilion, Township of
Vermilion Township Zoning and Building Department	<a href="http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=51&amp;Itemid=58">http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=51&amp;Itemid=58</a>	Richard D. Simon	Administrator and Zoning Inspector	1907 State Rd.	Vermilion, OH 44089	440-967-6841	<a href="mailto:rdsimon@centurytel.net">rdsimon@centurytel.net</a>	Township	Zoning	Erie, OH	Vermilion, Township of
Vermilion Township Zoning and Building Department	<a href="http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=51&amp;Itemid=58">http://www.vermiliontownship.com/index.php?option=com_content&amp;view=article&amp;id=51&amp;Itemid=58</a>	Robert Kurtz	Building Inspector	1907 State Rd.	Vermilion, OH 44089	440-967-7655	<a href="mailto:inspectorkurtz@yahoo.com">inspectorkurtz@yahoo.com</a>	Township	Building	Erie, OH	Vermilion, Township of
City of Vermilion Mayor's Office	<a href="http://www.vermilion.net/">http://www.vermilion.net/</a>	Eileen Bulan	Mayor	5511 Liberty Avenue	Vermilion, OH 44089	440-204-2400	<a href="mailto:Mayor@vermilion.net">Mayor@vermilion.net</a>	Community	Government	Erie, OH & Lorain	Vermilion, City of
Vermilion City Council	<a href="http://www.vermilion.net/">http://www.vermilion.net/</a>	John Gabriel	President	351 Portland Drive	Vermilion, OH 44089	440-204-2465	<a href="mailto:gabe@romps.com">gabe@romps.com</a>	Community	Government	Erie, OH & Lorain	Vermilion, City of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
Vermilion City Engineer	<a href="http://www.vermilion.net/">http://www.vermilion.net/</a>	Lynn S. Miggins, P.E.	City Engineer	260 Burns Road, Suite 100	Elyria, OH 44035	440-365-4730	<a href="mailto:migginsl@ksassociates.com">migginsl@ksassociates.com</a>	Community	Engineering	Erie, OH & Lorain	Vermilion, City of
Vermilion Building Department	<a href="http://www.vermilion.net/">http://www.vermilion.net/</a>	Tony Valerius	Building Inspector	5511 Liberty Avenue	Vermilion, OH 44089	440-204-2410	<a href="mailto:TonyValerius@vermilion.net">TonyValerius@vermilion.net</a>	Community	Building	Erie, OH & Lorain	Vermilion, City of
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRA/C/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRA/C/tabid/9307/Default.aspx</a>	Carrie E. Sowden	Archaeological Director at the Peachman Lake Erie Shipwreck Research Center (PLESRC)	480 Main Street, PO Box 435	Vermilion, OH 44089	440.967.3467 x 6	<a href="mailto:shipwreck@inlandseas.org">shipwreck@inlandseas.org</a>	Organization	Advisory	Erie, OH and Cuyahoga	Erie, OH and Cuyahoga
City of Amherst Mayor's Office	<a href="http://www.amherstohio.org/">http://www.amherstohio.org/</a>	David A. Taylor	Mayor	206 South Main	Amherst, OH 44001	440-988-4380	<a href="mailto:mayor@amherstohio.org">mayor@amherstohio.org</a>	Community	Government	Lorain	Amherst, City of
City of Amherst City Council	<a href="http://www.amherstohio.org">http://www.amherstohio.org</a>	John S Dietrich	Council President	206 S. Main Street	Amherst, OH 44001	440-988-2420	n/a	Community	Government	Lorain	Amherst, City of
City of Amherst Building Department	<a href="http://www.amherstohio.org/">http://www.amherstohio.org/</a>	Tim Reynolds	Chief Building Official	480 Park Avenue	Amherst, OH 44001	440-988-3734	<a href="mailto:building@amherstohio.org">building@amherstohio.org</a>	Community	Building	Lorain	Amherst, City of
City of Amherst Fire Department	<a href="http://www.amherstfire.org/">http://www.amherstfire.org/</a>	Wayne Norheim	Chief	414 Church Street	Amherst, OH 44001	440-988-4117	n/a	Community	Emergency Response	Lorain	Amherst, City of
City of Avon Lake City Council	<a href="http://www.avonlake.org/council.html">http://www.avonlake.org/council.html</a>	Barbara Dopp	Clerk of Council	150 Avon Belden Road	Avon Lake, OH 44012	440-930-4121	<a href="mailto:bdopp@avonlake.org">bdopp@avonlake.org</a>	Community	Government	Lorain	Avon Lake, City of
City of Avon Lake Building Department	<a href="http://www.avonlake.org/building-department.html">http://www.avonlake.org/building-department.html</a>	City of Avon Lake Building Supervisor		750 Avon Belden Road	Avon Lake, OH 44012			Community	Building	Lorain	Avon Lake, City of
City of Avon Lake Engineering Department	<a href="http://www.avonlake.org/engineering-department.html">http://www.avonlake.org/engineering-department.html</a>	City of Avon Lake Engineer		150 Avon Belden Road	Avon Lake, OH 44012	440-933-6141 x 1200	n/a	Community	Engineering	Lorain	Avon Lake, City of
City of Avon Lake Planning Department	<a href="http://www.avonlake.org/general-planning-info.html">http://www.avonlake.org/general-planning-info.html</a>	Coleen Spring		150 Avon Belden Road	Avon Lake, OH 44012	440-930-4101	n/a	Community	Planning	Lorain	Avon Lake, City of
City of Avon Lake Mayor's Office	<a href="http://www.avonlake.org/mayors-office.html">http://www.avonlake.org/mayors-office.html</a>	Greg Zilka	Mayor	150 Avon Belden Road	Avon Lake, OH 44012	440-930-4100	n/a	Community	Government	Lorain	Avon Lake, City of
City of Avon Lake Zoning Department	<a href="http://www.avonlake.org/zoning-department.html">http://www.avonlake.org/zoning-department.html</a>	Ruth Booher	Zoning Administrator	150 Avon Belden Road	Avon Lake, OH 44012	440-933-6141	n/a	Community	Zoning	Lorain	Avon Lake, City of
City of Avon Mayor's Office	<a href="http://www.cityofavon.com/">http://www.cityofavon.com/</a>	James Smith	Mayor	36080 Chester Road	Avon, OH 44011	440-937-7800	n/a	Community	Government	Lorain	Avon, City of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
City of Avon Planning Commission	<a href="http://www.cityofavon.com/EZ_Dept_Menu.aspx?d=20">http://www.cityofavon.com/EZ_Dept_Menu.aspx?d=20</a>	Jim Piazza	Planning Coordinator	36080 Chester Road	Avon, OH 44011	440-937-7545	<a href="mailto:jpiazza@cityofavon.com">jpiazza@cityofavon.com</a>	Community	Planning	Lorain	Avon, City of
City of Avon Building Department	<a href="http://www.cityofavon.com/EZ_DynPage_Detail.aspx?ID=65&amp;d=6">http://www.cityofavon.com/EZ_DynPage_Detail.aspx?ID=65&amp;d=6</a>	Kenneth A Miller	Chief Building Official	36080 Chester Road	Avon, OH 44011	440-937-7811	<a href="mailto:kmiller@cityofavon.com">kmiller@cityofavon.com</a>	Community	Building	Lorain	Avon, City of
City of Avon Engineering Department	<a href="http://www.cityofavon.com/EZ_Dept_Menu.aspx?d=33">http://www.cityofavon.com/EZ_Dept_Menu.aspx?d=33</a>	Robert Knopf	City Engineer	36080 Chester Road	Avon, OH 44011	440-934-7520	<a href="mailto:rknopf@cityofavon.com">rknopf@cityofavon.com</a>	Community	Engineering	Lorain	Avon, City of
Township of Brownhelm	<a href="http://www.brownhelm.com/">http://www.brownhelm.com/</a>	Gregory Abraham	Trustee	1940 North Ridge Road	Vermillion, OH 44089	440-985-1575	<a href="mailto:gaabraham@yahoo.com">gaabraham@yahoo.com</a>	Community	Government	Lorain	Brownhelm, Township of
Township of Brownhelm	<a href="http://www.brownhelm.com/">http://www.brownhelm.com/</a>	Jim Northeim	Trustee	1940 North Ridge Road	Vermillion, OH 44089	440-787-1026	<a href="mailto:jimnortheim@aol.com">jimnortheim@aol.com</a>	Community	Government	Lorain	Brownhelm, Township of
Township of Brownhelm	<a href="http://www.brownhelm.com/">http://www.brownhelm.com/</a>	John Schmalz	Zoning Inspector	1940 North Ridge Road	Vermillion, OH 44089	440-984-2243	<a href="mailto:brownhelmtown@centurytel.net">brownhelmtown@centurytel.net</a>	Community	Zoning	Lorain	Brownhelm, Township of
Township of Brownhelm	<a href="http://www.brownhelm.com/">http://www.brownhelm.com/</a>	Orrin Leimbach	Trustee	1940 North Ridge Road	Vermillion, OH 44089	440-320-3112	<a href="mailto:endoway@ncwcom.com">endoway@ncwcom.com</a>	Community	Government	Lorain	Brownhelm, Township of
Bramhall Engineering and Surveying Co., Inc.	<a href="http://www.bramhall-engineering.com/">http://www.bramhall-engineering.com/</a>	Clarence Watkins, P.E.	Engineering Manager	801 Moore Road	Avon, OH 44011	440-934-7878	<a href="mailto:cwatkins@bramhall-engineering.com">cwatkins@bramhall-engineering.com</a>	Tech Workshop???	Tech Workshop???	Lorain	Company
Lorain County	<a href="http://www.loraincounty.us/getdoc/d85aaf73-e1cb-4cd8-be6a-a68238aa6caf/James-Cordes.aspx">http://www.loraincounty.us/getdoc/d85aaf73-e1cb-4cd8-be6a-a68238aa6caf/James-Cordes.aspx</a>	James R. Cordes	Administrator	226 Middle Avenue	Elyria, OH 44035	440-329-5760	<a href="mailto:jcordes@loraincounty.us">jcordes@loraincounty.us</a>	County	Government	Lorain	Lorain County
Lorain County Office of Emergency Management & Homeland Security	<a href="http://www.loraincounty.us/getdoc/5d52127e-4cfd-454f-8815-d20b614f36d7/Emergency-Management--Homeland-Security.aspx">http://www.loraincounty.us/getdoc/5d52127e-4cfd-454f-8815-d20b614f36d7/Emergency-Management--Homeland-Security.aspx</a>	Tom Kelley	Director	322 N. Gateway Blvd.	Elyria, OH 44035	440-329-5117	<a href="mailto:tkelley@loraincounty.us">tkelley@loraincounty.us</a>	County	Emergency Management	Lorain	Lorain County
City of Lorain Mayor's Office	<a href="http://www.cityoflorain.org/mayor/">http://www.cityoflorain.org/mayor/</a>	Chase Ritenauer	Mayor	200 West Erie Avenue	Lorain, OH 44052	440-204-2002	<a href="mailto:mayor@CityofLorain.org">mayor@CityofLorain.org</a>	Community	Government	Lorain	Lorain, City of
City of Lorain Engineering Department	<a href="http://www.cityoflorain.org/directory/">http://www.cityoflorain.org/directory/</a>	Dale Vandersommen	City Engineer	200 West Erie Avenue	Lorain, OH 44052	440-204-2003	<a href="mailto:dale_vandersommen@cityoflorain.org">dale_vandersommen@cityoflorain.org</a>	Community	Engineering	Lorain	Lorain, City of
City of Lorain City Council	<a href="http://www.cityoflorain.org/directory/">http://www.cityoflorain.org/directory/</a>	Nancy Greer	Clerk	200 West Erie Avenue	Lorain, OH 44052	440-204-2050	<a href="mailto:Nancy_Greer@CityofLorain.org">Nancy_Greer@CityofLorain.org</a>	Community	Government	Lorain	Lorain, City of
City of Lorain Building Department	<a href="http://www.cityoflorain.org/directory/">http://www.cityoflorain.org/directory/</a>	Richard Kilnar	Chief Building Official	200 West Erie Avenue	Lorain, OH 44052	440-204-2045	<a href="mailto:richard_kilnar@cityoflorain.org">richard_kilnar@cityoflorain.org</a>	Community	Building	Lorain	Lorain, City of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST Zip	Phone	Email	Group	Category	County/State/Watershed	Community
City of Sheffield Lake City Council	<a href="http://www.sheffieldlake.net/council/council-members/">http://www.sheffieldlake.net/council/council-members/</a>	Edward R. Podmanik	Council President	4113 Holl Ave.	Sheffield Lake, OH 44054	440-949-5622	<a href="mailto:cen04053@centurytel.net">cen04053@centurytel.net</a>	Community	Government	Lorain	Sheffield Lake, City of
City of Sheffield Lake Mayor's Office	<a href="http://www.sheffieldlake.net/">http://www.sheffieldlake.net/</a>	John J. Piskura	Mayor	609 Harris Road	Sheffield Lake, OH 44054	440-949-7141	n/a	Community	Government	Lorain	Sheffield Lake, City of
City of Sheffield Lake Building Department	<a href="http://www.sheffieldlake.net/city-departments/building-department/">http://www.sheffieldlake.net/city-departments/building-department/</a>	Jon Wiblin	Building Inspector	609 Harris Road	Sheffield Lake, OH 44054	440-949-5767	n/a	Community	Building	Lorain	Sheffield Lake, City of
City of Sheffield Lake Planning Commission	<a href="http://www.sheffieldlake.net/about/boards-commissions/">http://www.sheffieldlake.net/about/boards-commissions/</a>	Scott Jancura	Chair	609 Harris Road	Sheffield Lake, OH 44054	440-949-7141	n/a	Community	Planning	Lorain	Sheffield Lake, City of
Sheffield Township	<a href="http://www.loraincounty.com/sheffieldlake/sheffieldtownship.shtml">http://www.loraincounty.com/sheffieldlake/sheffieldtownship.shtml</a>	Timothy Mihalcik	Trustee	5166 Clinton Avenue	Lorain, OH 44055	n/a	n/a	Township	Government	Lorain	Sheffield, Township of
Village of Sheffield Mayor's Office	<a href="http://www.sheffieldvillage.com/welcome.htm">http://www.sheffieldvillage.com/welcome.htm</a>	John D. Hunter	Mayor and Safety Service Director	4340 Colorado Avenue	Sheffield Village, OH 44054	440-949-6325	<a href="mailto:mayorhunter@sheffieldvillage.com">mayorhunter@sheffieldvillage.com</a>	Community	Government	Lorain	Sheffield, Village of
Village of Sheffield	<a href="http://www.sheffieldvillage.com/contact.htm">http://www.sheffieldvillage.com/contact.htm</a>	Ron Rosso	Zoning Administrator	4340 Colorado Avenue	Sheffield Village, OH 44054	440-949-6325	<a href="mailto:rossor@roadrunner.com">rossor@roadrunner.com</a>	Community	Zoning	Lorain	Sheffield, Village of

Attachment A-2  
Discovery Meeting Invitations

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**FEMA**

July 12, 2012

Mr. Paul Snyder  
Mayor, Village of Bay View Mayor's Office  
304 East Bay View Drive  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Snyder:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Snyder  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

The Information Exchange conference call is scheduled to occur:

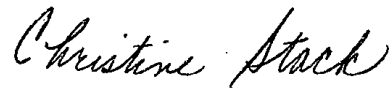
Date:	Tuesday, July 24, 2012
Time:	10:30 am – 11:30 am
Link to WebEx:	<a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a>
Call in number:	1-888-369-1427
Access Code:	7175315

If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 27, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Barb Wobser  
Council President, Village of Bay View Village Council  
304 East Bay View Drive  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Wobser:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

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Ms. Wobser  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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The Information Exchange conference call is scheduled to occur:

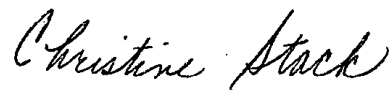
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Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Kelly Moon  
Mayor, Village of Berlin Heights  
8 West Main Street, PO Box 30  
Berlin Heights, OH 44814

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Moon:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Ms. Moon  
July 12, 2012  
Page 2

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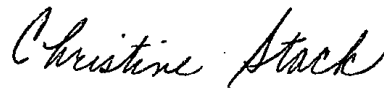
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Richard Close  
Council President, Village of Berlin Heights  
8 West Main Street, PO Box 30  
Berlin Heights, OH 44814

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Close:

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Mr. Close  
July 12, 2012  
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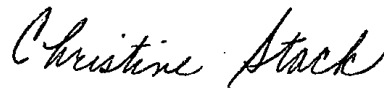
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. John Zimmerman  
Building Inspector, Village of Berlin Heights  
8 West Main Street, PO Box 30  
Berlin Heights, OH 44814

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Zimmerman:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Zimmerman  
July 12, 2012  
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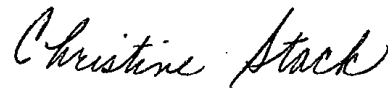
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Nancy Tittle  
Zoning Committee, Village of Berlin Heights  
8 West Main Street, PO Box 30  
Berlin Heights, OH 44814

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Tittle:

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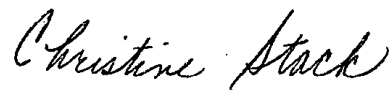
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Jim Vartorella  
Fire Chief, Village of Berlin Heights  
8 West Main Street, PO Box 30  
Berlin Heights, OH 44814

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Vartorella:

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Mr. Vartorella  
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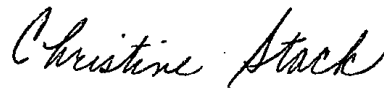
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Mr. Tim Jonovich  
Director, Erie County Office of Homeland Security and Emergency Management  
2900 Columbus Ave  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Jonovich:

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Mr. Jonovich  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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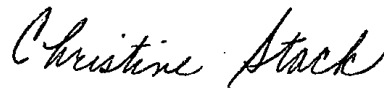
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Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Michael J. Bixler  
Administrator, Erie County, OH Administrator  
2900 Columbus Avenue  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Bixler:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Bixler  
July 12, 2012  
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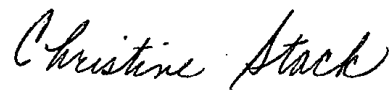
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. John D. Farschman, P.E., P.S.  
County Engineer, Erie County, OH Engineer's Office  
2700 Columbus Avenue  
Sandusky, OH 44870-5551

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Farschman:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Farschman  
July 12, 2012  
Page 2

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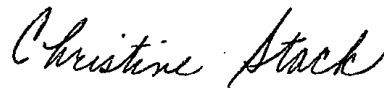
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Steve Poggiali  
Director, Erie County, OH Regional Planning Commission  
2900 Columbus Avenue  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Poggiali:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Poggiali  
July 12, 2012  
Page 2

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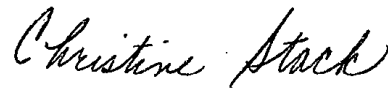
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Tim White  
District Director, Erie County, OH Soil and Water Conservation District  
2900 Columbus Avenue, Room 131  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. White:

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Mr. White  
July 12, 2012  
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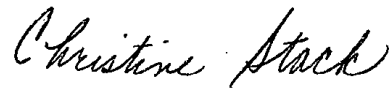
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Andrew D. White  
City Manager, City of Huron  
417 Main Street  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. White:

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Mr. White  
July 12, 2012  
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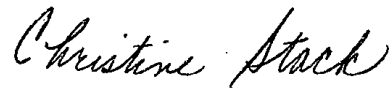
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Christine M. Gibboney  
Clerk of Council, City of Huron  
417 Main Street  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Gibboney:

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

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Ms. Gibboney  
July 12, 2012  
Page 2

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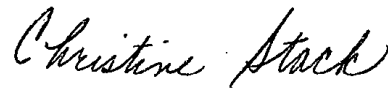
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Rick Schaffter  
Mayor, City of Huron  
417 Main Street  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Schaffter:

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Mr. Schaffter  
July 12, 2012  
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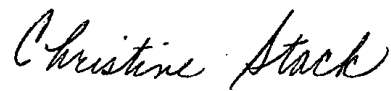
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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**FEMA**

July 12, 2012

Mr. Tom Sprunk  
Chair, City of Huron – Board of Building and Zoning Appeals  
1820 Bogart Road  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Sprunk:

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Mr. Sprunk  
July 12, 2012  
Page 2

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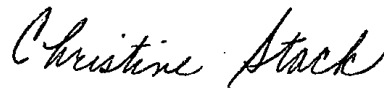
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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**FEMA**

July 12, 2012

Mr. Steve Osterling  
Chief, City of Huron – Fire Department  
413 Main Street  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Osterling:

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Mr. Osterling  
July 12, 2012  
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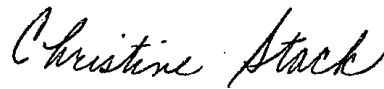
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Mr. Gary Boyle  
Chairperson, City of Huron – Planning Commission  
1820 Bogart Road  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

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Mr. Boyle  
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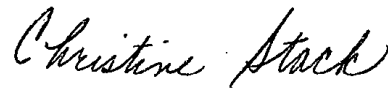
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**FEMA**

July 12, 2012

Mr. John Zimmerman  
Building Official, City of Huron –Building Department  
1820 Bogart Road  
Huron, OH 44839

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July 12, 2012  
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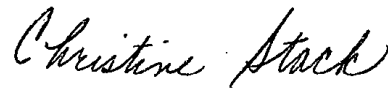
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Don Ritzenthaler  
Trustee, Huron Township  
1820 Bogart Road  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Ritzenthaler:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Ritzenthaler  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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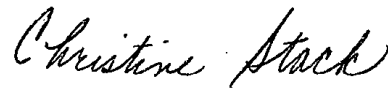
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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**FEMA**

July 12, 2012

Ms. Tammy Boos  
Huron Township  
1820 Bogart Road  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Boos:

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Ms. Boos  
July 12, 2012  
Page 2

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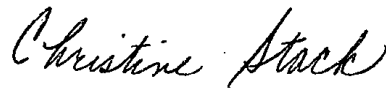
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Kyle Paine  
Mayor, Village of Kelleys Island  
121 Addison Street  
Kelleys Island, OH 43438-0469

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Paine:

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Mr. Paine  
July 12, 2012  
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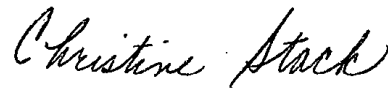
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Carol Nelson-Burns  
Clerk for Planning Commission & Board of Zoning Appeals, Village of Kelleys Island  
121 Addison Street  
Kelleys Island, OH 43438-0469

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Nelson-Burns:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Nelson-Burns  
July 12, 2012  
Page 2

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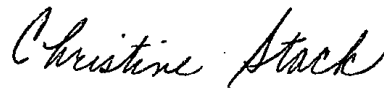
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Scott Stevenson  
Village Administrator, Village of Kelleys Island  
121 Addison Street  
Kelleys Island, OH 43438-0469

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

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Mr. Stevenson  
July 12, 2012  
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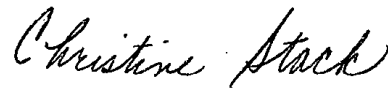
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Gary Finger  
Council Member, Village of Kelleys Island – Lands & Buildings Committee  
121 Addison Street  
Kelleys Island, OH 43438-0469

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

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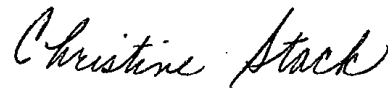
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Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Dennis Kaminski  
Council Member, Village of Kelleys Island – Village Council  
121 Addison Street  
Kelleys Island, OH 43438-0469

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Kaminski:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

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Mr. Kaminski  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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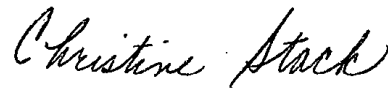
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Joe Bias, Jr.  
Chairman, Margaretta Township Board of Trustees  
114 Main Street  
Castalia, OH 44825

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Bias:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Bias  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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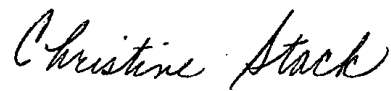
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Tom Johnson  
Zoning Inspector, Margaretta Township Zoning/Building Department  
114 Main Street  
Castalia, OH 44825

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Johnson:

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Mr. Johnson  
July 12, 2012  
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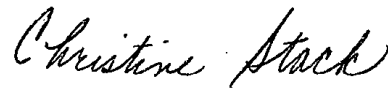
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Ms. Nicole Ard  
City Manager, City of Sandusky  
222 Meigs Street  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Ard:

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Ms. Ard  
July 12, 2012  
Page 2

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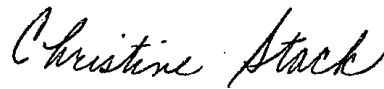
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Ms. Jane Cullen  
CAD Technician, City of Sandusky - Department of Planning, Engineering & Development  
222 Meigs Street  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Cullen:

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Ms. Cullen  
July 12, 2012  
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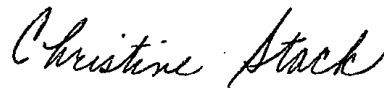
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Carrie Handy  
Chief Planner, City of Sandusky - Department of Planning, Engineering & Development  
222 Meigs Street  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Handy:

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Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Ms. Handy  
July 12, 2012  
Page 2

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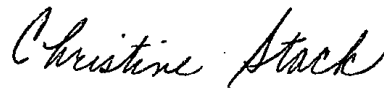
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Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. John F. Hamilton  
President, City of Sandusky – City Commissioners  
222 Meigs Street  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Hamilton:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Hamilton  
July 12, 2012  
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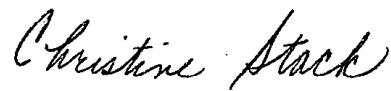
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Todd Roth, P.E., P.S.  
Director of Engineering Services, City of Sandusky - Department of Planning, Engineering &  
Development  
222 Meigs Street  
Sandusky, OH 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and  
Lorain Counties in Ohio

Dear Mr. Roth:

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Mr. Roth  
July 12, 2012  
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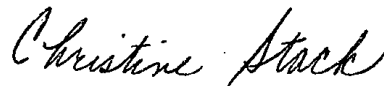
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Charles Trinter  
Chairman, Vermilion Township Board of Trustees  
1907 State Rd.  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Trinter:

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Mr. Trinter  
July 12, 2012  
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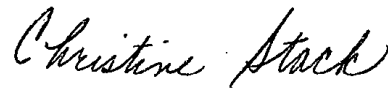
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Robert Kurtz  
Building Inspector, Vermilion Township Zoning and Building Department  
1907 State Rd.  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Kurtz:

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Mr. Kurtz  
July 12, 2012  
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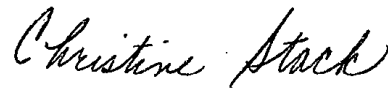
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Richard D. Simon  
Administrator and Zoning Inspector, Vermilion Township Zoning and Building Department  
1907 State Rd.  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

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Mr. Simon  
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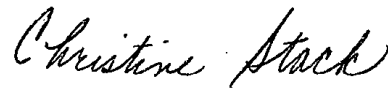
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Ms. Eileen Bulan  
Mayor, City of Vermilion Mayor's Office  
5511 Liberty Avenue  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Bulan:

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Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

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Ms. Bulan  
July 12, 2012  
Page 2

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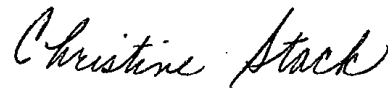
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Tony Valerius  
Building Inspector, Vermilion Building Department  
5511 Liberty Avenue  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Valerius:

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Mr. Valerius  
July 12, 2012  
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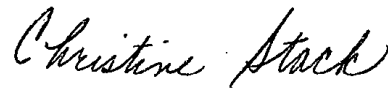
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. John Gabriel  
President, Vermilion City Council  
351 Portland Drive  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Gabriel:

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Mr. Gabriel  
July 12, 2012  
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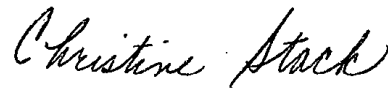
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Lynn S. Miggins, P.E.  
City Engineer, Vermilion City Engineer  
260 Burns Road, Suite 100  
Elyria, OH 44035

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Miggins:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Miggins  
July 12, 2012  
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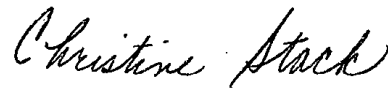
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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**FEMA**

July 12, 2012

Mr. Tim Reynolds  
Chief Building Official, City of Amherst Building Department  
480 Park Avenue  
Amherst, OH 44001

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Reynolds:

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Mr. Reynolds  
July 12, 2012  
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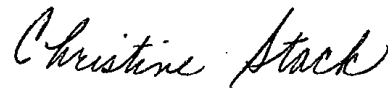
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Mr. John S. Dietrich  
Council President, City of Amherst City Council  
206 S. Main Street  
Amherst, OH 44001

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Dietrich:

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Mr. Dietrich  
July 12, 2012  
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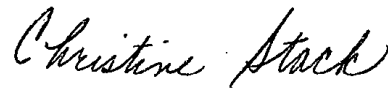
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Wayne Northeim  
Chief, City of Amherst Fire Department  
414 Church Street  
Amherst, OH 44001

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Northeim:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Northeim  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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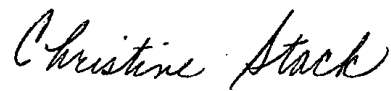
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. David A. Taylor  
Mayor, City of Amherst Mayor's Office  
206 South Main  
Amherst, OH 44001

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Taylor:

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Mr. Taylor  
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Page 2

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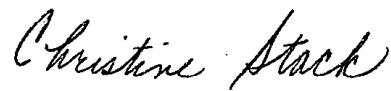
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Ms. Barbara Dopp  
Clerk of Council, City of Avon Lake City Council  
150 Avon Belden Road  
Avon Lake, OH 44012

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Dopp:

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Ms. Dopp  
July 12, 2012  
Page 2

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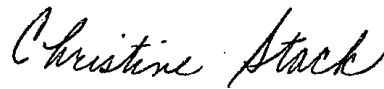
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Greg Zilka  
Mayor, City of Avon Lake Mayor's Office  
150 Avon Belden Road  
Avon Lake, OH 44012

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Zilka:

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Mr. Zilka  
July 12, 2012  
Page 2

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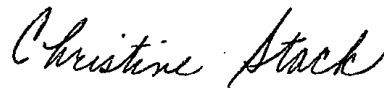
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Coleen Spring  
City of Avon Lake Planning Department  
150 Avon Belden Road  
Avon Lake, OH 44012

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Spring:

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Ms. Spring  
July 12, 2012  
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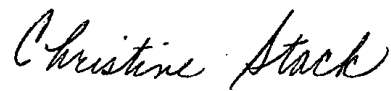
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Ms. Ruth Booher  
Zoning Administrator, City of Avon Lake Zoning Department  
150 Avon Belden Road  
Avon Lake, OH 44012

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Booher:

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Ms. Booher  
July 12, 2012  
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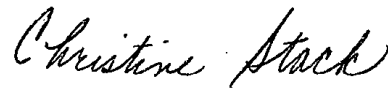
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Kenneth A. Miller  
Chief Building Official, City of Avon Building Department  
36080 Chester Road  
Avon, OH 44011

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Miller:

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

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Mr. Miller  
July 12, 2012  
Page 2

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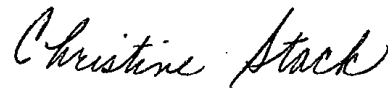
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Robert Knopf  
City Engineer, City of Avon Engineering Department  
36080 Chester Road  
Avon, OH 44011

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Knopf:

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Mr. Knopf  
July 12, 2012  
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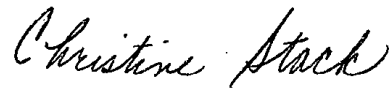
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. James Smith  
Mayor, City of Avon Mayor's Office  
36080 Chester Road  
Avon, OH 44011

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Smith:

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Mr. Smith  
July 12, 2012  
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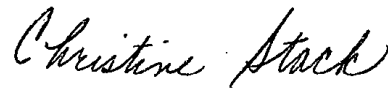
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Jim Piazza  
Planning Coordinator, City of Avon Planning Commission  
36080 Chester Road  
Avon, OH 44011

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Piazza:

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Mr. Piazza  
July 12, 2012  
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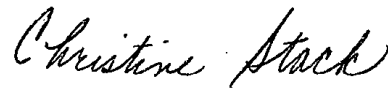
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Clarence Watkins, P.E.  
Engineering Manager, Bramhall Engineering and Surveying Co., Inc.  
801 Moore Road  
Avon, OH 44011

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Watkins:

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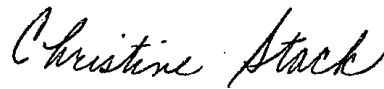
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Mr. John Schmalz  
Zoning Inspector, Township of Brownhelm  
1940 North Ridge Road  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

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Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Schmalz  
July 12, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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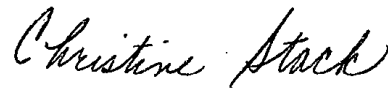
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Gregory Abraham  
Trustee, Township of Brownhelm  
1940 North Ridge Road  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Abraham:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Abraham  
July 12, 2012  
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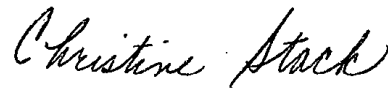
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Orrin Leimbach  
Trustee, Township of Brownhelm  
1940 North Ridge Road  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Leimbach:

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Mr. Leimbach  
July 12, 2012  
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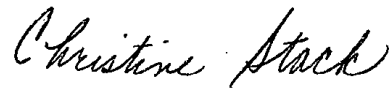
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Jim Northeim  
Trustee, Township of Brownhelm  
1940 North Ridge Road  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Northeim:

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Mr. Northeim  
July 12, 2012  
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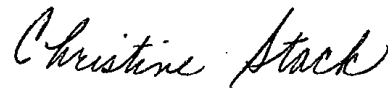
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. James R. Cordes  
Administrator, Lorain County  
226 Middle Avenue  
Elyria, OH 44035

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Cordes:

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Mr. Cordes  
July 12, 2012  
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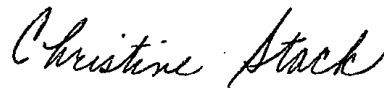
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Tom Kelley  
Director, Lorain County Office of Emergency Management & Homeland Security  
322 N. Gateway Blvd.  
Elyria, OH 44035

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Kelley:

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Mr. Kelley  
July 12, 2012  
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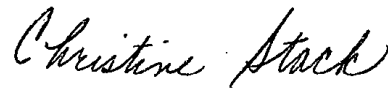
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Richard Kilnar  
Chief Building Official, City of Lorain Building Department  
200 West Erie Avenue  
Lorain, OH 44052

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Kilnar:

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

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Mr. Kilnar  
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Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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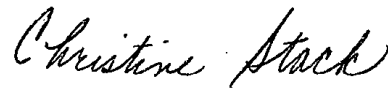
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Ms. Nancy Greer  
Clerk, City of Lorain City Council  
200 West Erie Avenue  
Lorain, OH 44052

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Greer:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Greer  
July 12, 2012  
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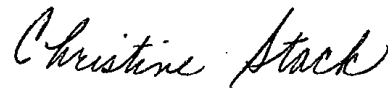
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Dale Vandersommen  
City Engineer, City of Lorain Engineering Department  
200 West Erie Avenue  
Lorain, OH 44052

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Vandersommen:

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Mr. Vandersommen  
July 12, 2012  
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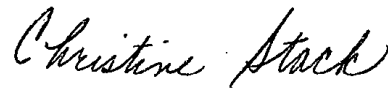
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Chase Ritenauer  
Mayor, City of Lorain Mayor's Office  
200 West Erie Avenue  
Lorain, OH 44052

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Ritenauer:

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Mr. Ritenauer  
July 12, 2012  
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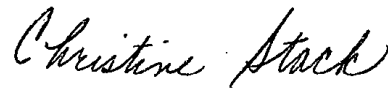
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Jon Wiblin  
Building Inspector, City of Sheffield Lake Building Department  
609 Harris Road  
Sheffield Lake, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Wiblin:

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Mr. Wiblin  
July 12, 2012  
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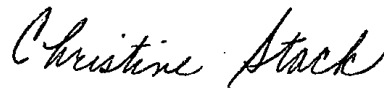
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 12, 2012

Mr. Edward R. Podmanik  
Council President, City of Sheffield Lake City Council  
4113 Holl Ave.  
Sheffield Lake, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Podmanik:

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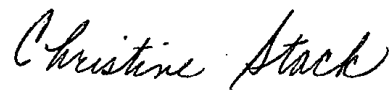
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. John J. Piskura  
Mayor, City of Sheffield Lake Mayor's Office  
609 Harris Road  
Sheffield Lake, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Piskura:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Piskura  
July 12, 2012  
Page 2

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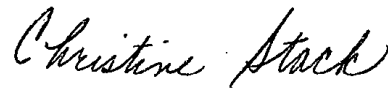
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Scott Jancura  
Chair, City of Sheffield Lake Planning Commission  
609 Harris Road  
Sheffield Lake, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Jancura:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Jancura  
July 12, 2012  
Page 2

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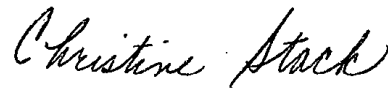
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. Timothy Mihalcik  
Trustee, Sheffield Township  
5166 Clinton Avenue  
Lorain, OH 44055

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Mihalcik:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Mihalcik  
July 12, 2012  
Page 2

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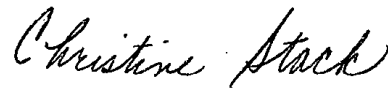
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form





**FEMA**

July 12, 2012

Mr. Ron Rosso  
Zoning Administrator, Village of Sheffield  
4340 Colorado Avenue  
Sheffield Village, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Rosso:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Rosso  
July 12, 2012  
Page 2

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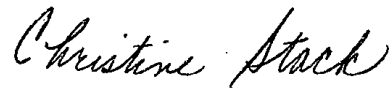
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Mr. John Hunter  
Mayor and Safety Service Director, Village of Sheffield Mayor's Office  
4340 Colorado Avenue  
Sheffield Village, OH 44054

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Mr. Hunter:

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Mr. Hunter  
July 12, 2012  
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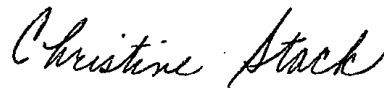
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Carrie E. Sowden  
Archaeological Director at the Peachman Lake Erie Shipwreck Research Center (PLESRC), Ohio Coastal Resources Advisory Council  
480 Main Street, PO Box 435  
Vermilion, OH 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Sowden:

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Ms. Sowden  
July 12, 2012  
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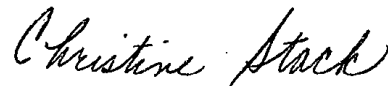
Date:	Tuesday, July 24, 2012
Time:	10:30 am – 11:30 am
Link to WebEx:	<a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a>
Call in number:	1-888-369-1427
Access Code:	7175315

If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 27, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Amelia Vincent, c/o RAMPP 12420 Milestone Center Drive, Suite 150 Germantown, MD 20876

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 12, 2012

Ms. Heather Elmer

Ohio Coastal Training Program, Ohio Coastal Training Program, ODNR Division of Wildlife, Old Woman Creek National Estuarine Research Reserve  
2514 Cleveland Road East  
Huron, OH 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Erie and Lorain Counties in Ohio

Dear Ms. Elmer:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Wednesday, August 1, 2012  
Time: 10:00 am – 12:00 pm  
Location: Ritter Public Library, Community Room  
Address: 5680 Liberty Avenue, Vermilion, OH 44089

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists,

Ms. Elmer  
July 12, 2012  
Page 2

engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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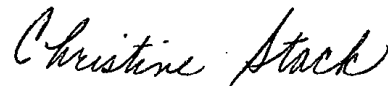
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



Attachment A-3  
Information Exchange Session  
Presentation

---



## Information Exchange Session for Lake Erie Discovery

Erie and Lorain Counties, Ohio  
July 24, 2012  
10:30 am - 11:30 am



**RiskMAP**  
Increasing Resilience Together



## Purpose of Information Exchange

- Introduction to Risk MAP
- Introduction to Great Lakes Flood Study and Discovery
- Learn more about your areas of concern, coastal flood risk, and coastal mitigation
- Bring the right people to the table early
- Identify data gaps



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## Risk MAP (Mapping, Assessment, and Planning) Vision



### Goals

1. Address gaps in flood hazard data
2. Increase risk awareness to encourage risk reduction
3. Risk-based Mitigation Planning resulting in risk reduction actions
4. Enhanced digital platform to improve communication and sharing of risk data
5. Align programs and develop synergies



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## Overview of Great Lakes Coastal Flood Study



- Latest models, data, and technology
- Deliver updated flood maps and flood risk datasets
- Equip Federal Agencies, eight States and hundreds of coastal communities with data and planning tools to facilitate actions to enhance resiliency of the Great Lakes ecosystem



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## Hazard Mitigation Resources, Strategies & Actions



- Recent community hazard mitigation experiences?
  - Public Works
  - Building Standards
  - Community Planning and Hazard Mitigation Plan Update
  - Communication Processes, GIS, etc.
- New option to document ideas and actions through the FEMA Mitigation Action Form

<b>Land Use Ordinances</b> Zoning, Setbacks, Floodplain Management, etc.	<b>Local Building Codes</b> IBC, IRC, Local Regulations, etc.	<b>Mitigation Projects</b> Acquisition, Elevation, Floodproofing, etc.	<b>Community Identified Mitigation Programs</b>	<b>Management Best Practices</b> Integration of natural hazards into other planning mechanisms
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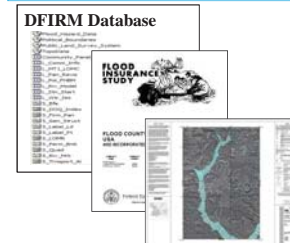
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## Products and Datasets: Regulatory and Non-regulatory

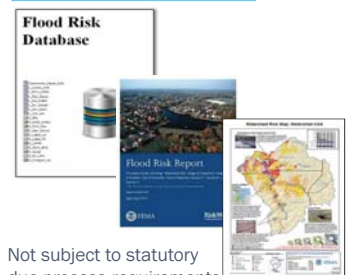


### Traditional Regulatory Products



Subject to statutory due-process requirements

### Non-Regulatory Products



Not subject to statutory due-process requirements

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# Products and Datasets: Coastal Products in Development



## Erosion



Lake Erie Erosion  
From ODNR website

## Lake Levels



Lake Erie Shoreline  
From Toledo Blade website

## Shoreline Feature Dataset



Lake Erie Shoreline  
From ODNR website

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# Risk MAP Overview: Shoreline Features Database



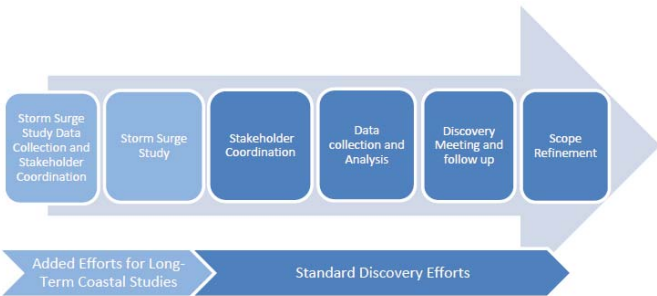
Shoreline Material	Primary Land Use	Primary Coast Type	Primary Vegetation
Sand	High Density Residential	High Dune, 10'+	None
Cohesive	Moderate Density Residential	Dune, 2' - 10'	High Density Shrubs/Trees
Cobble	Low Density Residential	High Bluff, 10'+	Moderate Density Shrubs/Trees
Diamicton*	Commercial/Industrial	Bluff, 2' - 10'	Low Density Shrubs/Trees
Shingle	Park Land	Coastal Wetland	Manicured Lawn
Bedrock	Farm Land	Flat Coast	Native Vegetation
Artificial	Forested		

- Contains primary and secondary Land Use tables – same for coast type and vegetation.
- Current project collects data at one-mile spacing, for scoping and cost
- Current project does not include field-based reconnaissance or sediment/subsurface soils collection

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# Great Lakes Coastal Flood Study Discovery Process Overview



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# Great Lakes Coastal Flood Study Discovery Meeting



Discovery Meeting Venue	Discovery Meeting Address	Discovery Meeting Date, Time
Ritter Public Library Community Room	5680 Liberty Ave. Vermilion, Oh 44089	Wednesday 08/01/2012; 10:00 AM - 12:00 PM EST

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# Draft Discovery Meeting Agenda



- Why are we here?
- Coastal mapping and flood risk topics to be aware of
- How does this apply to my community?
  - NFIP compliance, hazard mitigation opportunities, and grant funding
- Interactive Session
  - Utilization of Coastal Flood Risk Products for Planning and Mitigation, Identification of Existing Local Coastal Data, View and Discuss Local Coastal Areas of Concern Using the Discovery Map, Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form
- Wrap Up

*Draft Transect Map Station: Talk to technical staff about draft transects and view draft transects in GIS  
Mitigation Resources, Strategies, and Actions Station: Talk with FEMA and State staff about areas of concern and potential mitigation actions to help reduce risk. Fill out Mitigation Action Form.*

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# Great Lakes Coastal Flood Study Discovery Products



- Final Discovery Report
  - Single, comprehensive report for all of Lake Erie, with appendices for Discovery meeting counties
  - Includes pre-discovery data, meeting agenda, sign-in sheets, discussion topics, decisions made, etc.
- Final Discovery Maps
  - Including feedback from participants
  - Visual representation of meeting outcomes



Discovery Report

Worksheet Name, Worksheet Number  
County names  
Community names  
County  
Report Number #



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## Who Should Attend the Discovery Meeting?



- **Community Officials**
  - CEO and Floodplain Administrators (FPAs)
  - Planners, GIS Specialists, Engineers, Outreach Specialists, Emergency Managers, and Community Leaders
- **State Representatives**
  - State Hazard Mitigation Officer (SHMO), National Flood Insurance Program (NFIP) Coordinators, Cooperating Technical Partners (CTPs)
- **Other Federal Agencies (NOAA, USACE, USGS)**
- **Regional Planning Agencies**
- **Great Lakes Organizations**

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## Lake Erie Discovery



### 13 counties

- Ohio
  - Ashtabula
  - Cuyahoga
  - Erie
  - Lake
  - Lorain
  - Lucas
  - Ottawa
  - Sandusky
- Michigan
  - Monroe
  - Wayne
- New York
  - Chautauqua
  - Erie
- Pennsylvania
  - Erie



### 132 coastal communities

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## Data Request Form Overview



- Contact Information
- Base Map Data
- Coastal Data
- Other Data
- Historic Flood Data
- Risk Assessment
- Flood Mitigation Information
- Community Plans and Projects
- Any Other Comments/ Concerns Based on Local Knowledge

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## Review of Data Collected To Date



- **Base Data**
  - Draft Transects
  - Shoreline Classification Dataset
  - Bathymetry and Topographic Data
  - Watershed Boundaries
  - Jurisdictional Boundaries
  - Transportation
  - Census Blocks
  - Average Annualized Loss (AAL)
  - Coordinate Needs Management Strategy (CNMS)
  - Coastal Barrier Resources System (CBRS)
  - Declared Disasters

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## Review of Data Collected To Date



- **Mitigation**
  - Hazard Mitigation Plans
  - Hazard Mitigation Grants Program (HMGP) projects
  - Pre-Disaster Mitigation Program projects
  - Projects funded through Ohio Coastal Management Assistance Grants
  - Projects funded through Great Lakes Coastal Restoration Grants
  - Projects funded through Coastal and Estuarine Land Conservation Program
- **NFIP related Data**
  - Community Rating System
  - Community Assistance Visits
  - Flood Insurance Policies and claims
  - Repetitive Loss and Severe Repetitive Loss.
  - Letters of Map Change (LOMC) cluster locations

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## Review of Data Collected To Date



- **Structures**
  - Coastal structures
  - Dams
- **Gage Stations**
  - Stream gages
  - Wave gages
  - Water level gages

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## Data Gaps



- Critically Eroded Beach Areas
- Beach Nourishment/Dune Replacement Projects
- Critical Facilities (in GIS format)
- High Water Marks
- Comprehensive Plans
  - Erie County
  - City of Sandusky
- Local Mitigation Plans
  - Lorain County (expired on Jan 2012)
  - Erie County (will expire on Jan 2013)

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**Great Lakes Coastal Flood Study**  
greatlakescoast.org



## Data Gaps



- Areas of recent or planned development
- Areas of high growth
- Recent land changes due to development, erosion, etc.
- Known flooding issues not represented on effective FIRMs or listed in CNMS

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**Great Lakes Coastal Flood Study**  
greatlakescoast.org



## Next Steps and Opportunity to Get Involved



- Assessment of data and information provided
- Identification of best practices:
  - Do you have an example of a local coastal mitigation best practice?
- Discovery meeting involvement:
  - Are you be interested in participating in Discovery Meeting facilitation?

THANK YOU FOR YOUR PARTICIPATION!

**RiskMAP**  
Increasing Resilience Together

**Great Lakes Coastal Flood Study**  
greatlakescoast.org



## Who to Contact



- For more information: <http://www.greatlakescoast.org/>
- Send completed questionnaires to:
  - [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)
- FEMA Region V
  - Ken Hinterlong @ [ken.hinterlong@fema.dhs.gov](mailto:ken.hinterlong@fema.dhs.gov)
  - Mike Hanke @ [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov)
- RAMPP
  - Amelia Vincent @ [amelia.vincent@urs.com](mailto:amelia.vincent@urs.com)

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**Great Lakes Coastal Flood Study**  
greatlakescoast.org



## Questions?



**RiskMAP**  
Increasing Resilience Together

**Great Lakes Coastal Flood Study**  
greatlakescoast.org



# Attachment B: Data Collection

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Attachment B-1: Data Request Forms

Attachment B-2: A List of Locally Provided Documents

# Attachment B-1

## Data Request Forms

---

**Steve Poggiali - Director**

2900 Columbus Avenue  
Sandusky, Ohio 44870

Phone: 419.627.7792  
Fax: 419.627.6670

e-mail: SteveP@eriecounty.oh.gov  
net: http://www.erie-county-ohio.net/erpc/



U.S. Department of Homeland Security

536 S. Clark St. 6<sup>th</sup> Floor  
Chicago, IL 60605

**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

<b>Contact Information</b>	
Community/Organization	Erie County, OH (various agencies-contact info attchd)
Name:	
Title:	
Address:	
E-mail:	
Phone:	
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail





**FEMA**

Please check off the types of data you will provide by July 27, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
	Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> <i>Hard copy</i>	<input checked="" type="checkbox"/> <i>Digital</i>
	Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input type="checkbox"/> <i>Hard copy</i>	<input checked="" type="checkbox"/> <i>Digital</i>
<b>Coastal Data</b>			
	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Coastal features (i.e., dunes and bluffs)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Shoreline change data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Locations of beach nourishment or dune restoration projects	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Areas of significant beach or dune erosion	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean high water	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean lake level	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Other Data</b>			
	Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Elevated roads	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Critical facilities	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc.	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other relevant data	<input type="checkbox"/> <i>Hard copy</i>	<input checked="" type="checkbox"/> <i>Digital</i>



**FEMA**

*Please provide the following information about the community:*

<b>Historical Flood Data</b>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain and provide inundation areas of historic flooding events if available.
<b>Risk Assessment</b>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



**FEMA**

<b>Flood Mitigation Information</b>		
<p>Does your community have a hazard mitigation plan?</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>	<p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input checked="" type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates</p>
<p>Does the plan reflect any coastal flood hazards?</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>	<p>If yes, please explain: Land bank erosion and flooding are incorporated in the mitigation plan.</p>
<p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>	<p>If yes, please explain: The plan states that FIRMs should be updated. Since that time, Erie County's FIRMs have been updated became effective August 2008. Also, the plan notes that additional monitoring of water levels in streams &amp; rivers should be provided with stream gauges and personnel. Since then, 3 gauges have been placed in Mills Creek, Pipe Creek and Sawmill as well as a USGS gauge station on Old Woman Creek near Berlin Rd. to develop flow rating curves for watersheds.</p>
<p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe the projects and their locations:</p>



# FEMA

Any specific coastal mitigation projects?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain: Post Disaster Recovery. Erie County's Emergency Management Agency (EMA) assists residents during flooding events and coordinates with the County Sheriffs Office and local law enforcement agencies, County Engineers Office, Regional Planning, and Soil and Water Office.
Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain: Not coastal specific, but planned developments in floodplain are required to meet floodplain regulations. Planned developments typically proceed through the Regional Planning Commission's Committee process for review and approval.



# FEMA

<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of these grants projects:</p>
<p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>



**FEMA**

How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?		<input type="checkbox"/> high <input checked="" type="checkbox"/> medium <input type="checkbox"/> low
<b>Community Plans and Projects</b>		
Does your community have a comprehensive plan?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain elements/regulations that affect coastal area development. It should be noted the plan was completed in 1995 and needs to be updated. Plan refers to coastal barrier resource system (CBRA) and development proposals in the CBRA must be coordinated with the office of US Fish & Wildlife Service.
Does your community have a coastal zone management plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please provide a digital or hard copy of the plan.
Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place: -Erie Regional Planning Commission is administered out of Erie Regional Planning and it serves as the umbrella agency for county planning. -Floodplain - Flood damage regulations Resolution 2008-304 -Existing zoning building codes -Watershed Action Plan calls for wetland and riparian setbacks to maintain ecosystem for hazard mitigation and review of zoning codes in phase 2 communities currently underway



# FEMA

<p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>	<p>If yes, please describe: County EMA working on flood mitigation plan for Pipe Creek watershed.</p>
<p>Any other comments/concerns based on local knowledge:</p>	<p>*Note 1: 2' Contour Maps forwarded via email with this form. Other Digital data indicated available on p.2 can be downloaded from the Erie County Auditors Website at <a href="http://downloads.ddti.net/ErieOH">http://downloads.ddti.net/ErieOH</a> **Note 2: Southwest portion of County (Groton Township) has experienced karst flooding. ***Note 3: This questionnaire was completed by the following agencies and contact information for each agency provided as an attachment: -Erie County Emergency Management Agency -Erie County Soil &amp; Water Conservation District -Erie County Engineers Office -Erie County Regional Planning Department</p>	

## *Erie County Contact Information for FEMA Risk MAP program*

**July 2012**

Agency Name	Contact Name	Title	Address	Email	Phone
Erie County Emergency Management Agency (EMA)	Tim Jonovich	Director	2900 Columbus Ave. Sandusky, OH 44870	<a href="mailto:tjonovich@eriecounty.oh.gov">tjonovich@eriecounty.oh.gov</a>	419-627-7617
Erie County Engineers Office (ECEO)	Ken Fortney	Drainage Manager	2700 Columbus Ave. Sandusky, OH 44870	<a href="mailto:kfortney@eriecounty.oh.gov">kfortney@eriecounty.oh.gov</a>	419-627-7716
Erie Soil and Water Conservation District	Breann Hohman Crystal Dymond	Watershed Coordinator Storm Water Program Coordinator	2900 Columbus Ave. Room 131 Sandusky, OH 44870	<a href="mailto:bhohman@eriecounty.oh.gov">bhohman@eriecounty.oh.gov</a> <a href="mailto:cdymond@eriecounty.oh.gov">cdymond@eriecounty.oh.gov</a>	419-627-5211
Erie County Regional Planning Department (ERPC)	Steve Poggiali	Director	2900 Columbus Ave. Sandusky, OH 44870	<a href="mailto:stevep@eriecounty.oh.gov">stevep@eriecounty.oh.gov</a>	419-627-6671





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)

By mail: Amelia Vincent, c/o RAMPP  
12420 Milestone Center Drive, Suite 150  
Germantown, MD 20876

Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

<b>Contact Information</b>	
Community/Organization	City of Huron
Name:	Steve Osterling
Title:	Fire Chief
Address:	417 main st. Huron, OH 44839
E-mail:	sosterling@cityofhuron.org
Phone:	419 433 3544
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail



# FEMA

Please check off the types of data you will provide by July 27, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
<input type="checkbox"/>	Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Coastal Data</b>			
<input type="checkbox"/>	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Coastal features (i.e., dunes and bluffs)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Shoreline change data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Locations of beach nourishment or dune restoration projects	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Areas of significant beach or dune erosion	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Mean high water	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Mean lake level	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Other Data</b>			
<input type="checkbox"/>	Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Elevated roads	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Critical facilities	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc.	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Other relevant data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>



# FEMA

Please provide the following information about the community:

<b>Historical Flood Data</b>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain and provide inundation areas of historic flooding events if available.
<b>Risk Assessment</b>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



# FEMA

<b><i>Flood Mitigation Information</i></b>		
Does your community have a hazard mitigation plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
Does the plan reflect any coastal flood hazards?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe the projects and their locations:



# FEMA

Any specific coastal mitigation projects?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:



# FEMA

<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of these grants projects:</p>
<p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>



**FEMA**

How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?		<input type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low
<b>Community Plans and Projects</b>		
Does your community have a comprehensive plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?  <input type="checkbox"/> yes  <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain elements/regulations that affect coastal area development.
Does your community have a coastal zone management plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please provide a digital or hard copy of the plan.
Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:



# FEMA

<p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</p>		





**FEMA**

**RiskMAP**  
Increasing Resilience Together

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
By mail: Andy Brunt, c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031  
Or by fax: 703-849-0648

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Andy Brunt, [ABrunt@Dewberry.com](mailto:ABrunt@Dewberry.com), (703) 849-0451

<b>Contact Information</b>	
Community/Organization	PERKINS TOWNSHIP
Name:	ERIC DODRILL
Title:	HIGHWAY SUPERINTENDENT
Address:	2610 COLUMBUS AVENUE SANDUSKY OH 44870
E-mail:	edodrill@perkins-township.com
Phone:	419 609 1433
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail



# FEMA

# RiskMAP

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Please check off the types of data you will provide by July 13, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
	Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Coastal Data</b> (COUNTY LEVEL)			
	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.) N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Coastal features (i.e., dunes and bluffs) N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Shoreline change data N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Locations of beach nourishment or dune restoration projects N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Areas of significant beach or dune erosion N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean high water N/A	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean lake level	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Other Data</b>			
	Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Elevated roads	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Critical facilities	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc.	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other relevant data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>



**FEMA**

**RiskMAP**  
Increasing Resilience Together

*Please provide the following information about the community:*

<b><i>Historical Flood Data</i></b>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain and provide inundation areas of historic flooding events if available.
<b><i>Risk Assessment</i></b>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



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RiskMAP

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<i>Flood Mitigation Information</i>		
Does your community have a hazard mitigation plan?  (ERIE COUNTY)	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input checked="" type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
Does the plan reflect any coastal flood hazards?  N/A	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain:
Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain:  NOT KNOWN
Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe the projects and their locations:



# FEMA

# RiskMAP

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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain: <b>ERIE COUNTY FLOODPLAIN MGMT</b>



# FEMA

# RiskMAP

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<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of these grants projects:</p>
<p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>	<p><input type="checkbox"/> high <input checked="" type="checkbox"/> medium <input type="checkbox"/> low</p>	



# FEMA

# RiskMAP

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<i>Community Plans and Projects</i>		
Does your community have a comprehensive plan?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?  <input type="checkbox"/> yes <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain elements/regulations that affect coastal area development.
Does your community have a coastal zone management plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please provide a digital or hard copy of the plan.
Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place: <i>ZONING / BUILDING            FLOODPLAIN MANAGEMENT            THROUGH REGIONAL            PLANNING (ERIE COUNTY)</i>



FEMA

RiskMAP

Increasing Resilience Together

<p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe:          DEVELOPMENT / REDEVELOPMENT          SMALL AREA OUTSIDE          COASTAL AREA</p>
<p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe:          N/A IN COASTAL AREAS</p>
<p>Any other comments/concerns based on local knowledge:</p>	<p>PERKINS TOWNSHIP HAS VERY SMALL AREA AT NORTHEAST CORNER OF TOWNSHIP NEAR SANDUSKY BAY. PROTECTED AREA BY METROPARKS &amp; OHIO DNR - MINIMAL EXPOSURE TO COASTAL PROCESSES</p>	





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

Contact Information	
Community/Organization	VERMILION TOWNSHIP
Name:	RICHARDS SIMON
Title:	ADMINISTRATOR / ZONING INSPECTOR
Address:	1907 STATE RD. VERMILION, OHIO 44089
E-mail:	rdsimon@vermiliontownship.com
Phone:	440-967-6841
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail



**FEMA**

Please check off the types of data you will provide by July 27, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
	Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Coastal Data</b>			
	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Coastal features (i.e., dunes and bluffs)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Shoreline change data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Locations of beach nourishment or dune restoration projects	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Areas of significant beach or dune erosion	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean high water	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Mean lake level	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<b>Other Data</b>			
	Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Elevated roads	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Critical facilities	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc.	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
	Other relevant data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>



# FEMA

Please provide the following information about the community:

<b>Historical Flood Data</b>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain and provide inundation areas of historic flooding events if available.
<b>Risk Assessment</b>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



**FEMA**

<b><i>Flood Mitigation Information</i></b>		
Does your community have a hazard mitigation plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
Does the plan reflect any coastal flood hazards?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain:
Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please describe the projects and their locations:



# FEMA

Any specific coastal mitigation projects?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain:
Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain:



# FEMA

<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of these grants projects:</p>
<p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>



**FEMA**

How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?	<input type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low
---	--

***Community Plans and Projects***

Does your community have a comprehensive plan?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?  <input type="checkbox"/> yes <input type="checkbox"/> no
--	--	--

Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain elements/regulations that affect coastal area development.
--	--	---

Does your community have a coastal zone management plan?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please provide a digital or hard copy of the plan.
--	---	--

Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:
--	---	---



# FEMA

<p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</p>		



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**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

<b>Contact Information</b>	
Community/Organization	City of Avon Lake
Name:	Joseph Reitz
Title:	Engineering Manager, City of Avon Lake
Address:	150 Avon Belden Road Avon Lake, Ohio 44012
E-mail:	jrrreiz@avonlake.org
Phone:	440-930-4101
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input checked="" type="checkbox"/> Mail

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**FEMA**

Please check off the types of data you will provide by July 27, 2012.

Base Map Data		Please select available data type	
<input type="checkbox"/>	Topography (e.g., LiDAR or contour data)	<input checked="" type="checkbox"/> <i>No</i> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input checked="" type="checkbox"/> <i>No</i> Hard copy	<input type="checkbox"/> Digital
<b>Coastal Data</b>			
<input type="checkbox"/>	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Coastal features (i.e., dunes and bluffs)	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Shoreline change data	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Locations of beach nourishment or dune restoration projects	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Areas of significant beach or dune erosion	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Mean high water	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Mean lake level	<input checked="" type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<b>Other Data</b>			
<input type="checkbox"/>	Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Elevated roads	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Critical facilities	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc.	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
<input type="checkbox"/>	Other relevant data	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital

} Can get from Corbin County Auditor

← get from Corp of Eng

N/A ?

N/A  
N/A

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Chicago, IL 60605



# FEMA

*Please provide the following information about the community:*

<b>Historical Flood Data</b>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain and provide inundation areas of historic flooding events if available.
<b>Risk Assessment</b>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:

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**FEMA**

<b><i>Flood Mitigation Information</i></b>		
<p>Does your community have a hazard mitigation plan?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates</p>
<p>Does the plan reflect any coastal flood hazards?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please explain:</p>
<p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please explain:</p>
<p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe the projects and their locations:</p>

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# FEMA

<p>Any specific coastal mitigation projects?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please explain:</p>
<p>Does your community have experience with coastal flood disasters and flood disaster recovery?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please explain:</p>
<p>Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain:          When Planned Unit Developments are proposed the floodplains are considered, where applicable.</p>

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Chicago, IL 60605



**FEMA**

<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of these grants projects:</p>
<p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>

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Chicago, IL 60605



**FEMA**

How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?		<input type="checkbox"/> high <input checked="" type="checkbox"/> medium <input type="checkbox"/> low
<b>Community Plans and Projects</b>		
Does your community have a comprehensive plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?  <input type="checkbox"/> yes <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please explain elements/regulations that affect coastal area development.
Does your community have a coastal zone management plan?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please provide a digital or hard copy of the plan.
Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:  <i>Planning Commission reviews plans and offers recommendations</i>

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Chicago, IL 60605



# FEMA

<p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>	<p>If yes, please describe: City will be applying for a map revision to one of our creek areas where a new culvert was installed.</p>
<p>Any other comments/concerns based on local knowledge:</p>	<p>How does the City become involved in the review of shoreline structures such as boat houses, patio's and rec rooms on submerged land lease areas that would be impacted by coastal flooding?</p>	



## Attachment B-2

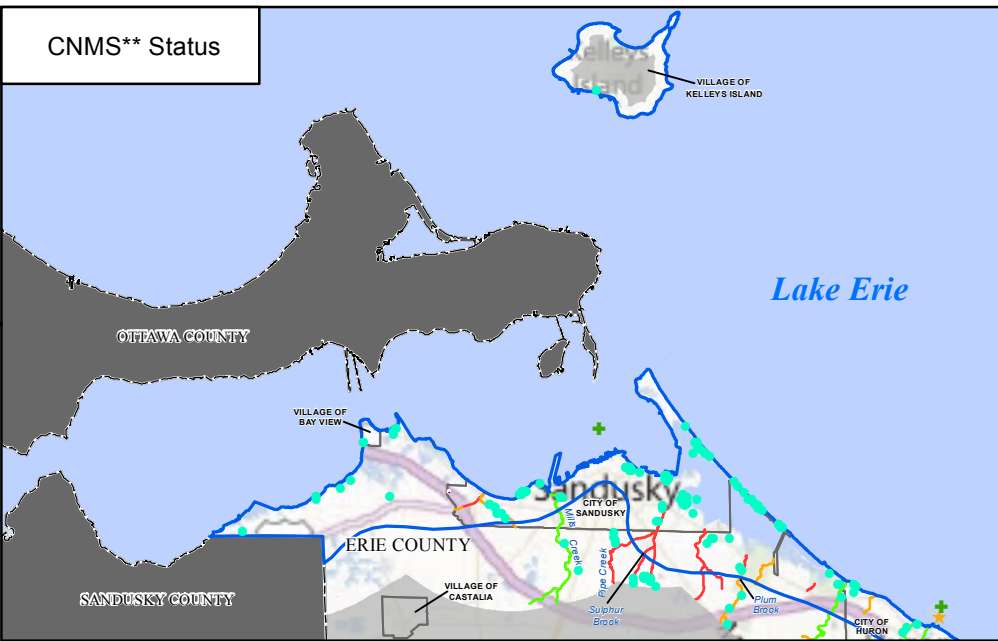
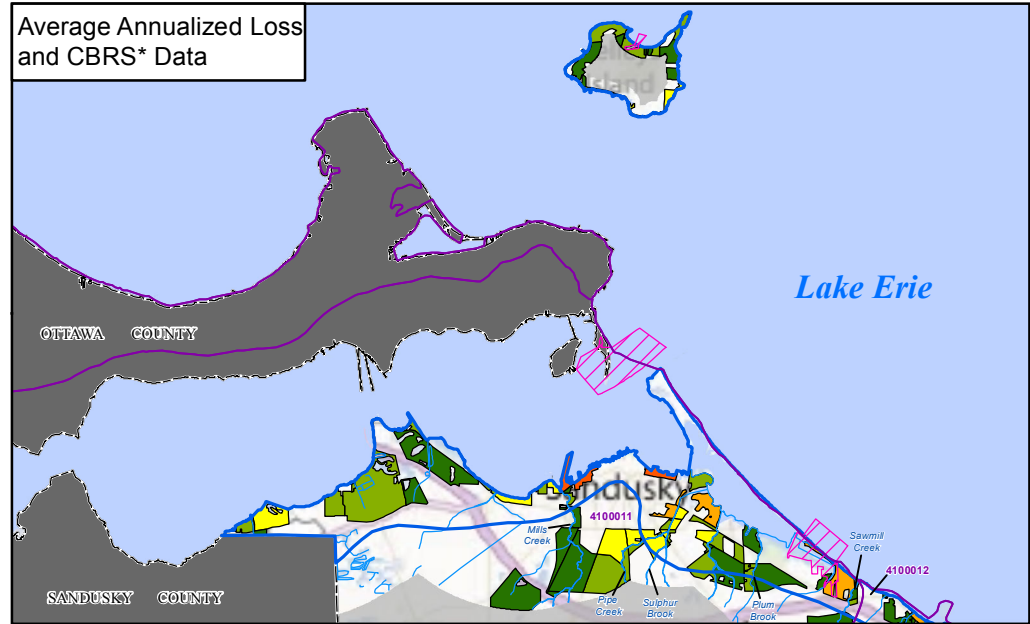
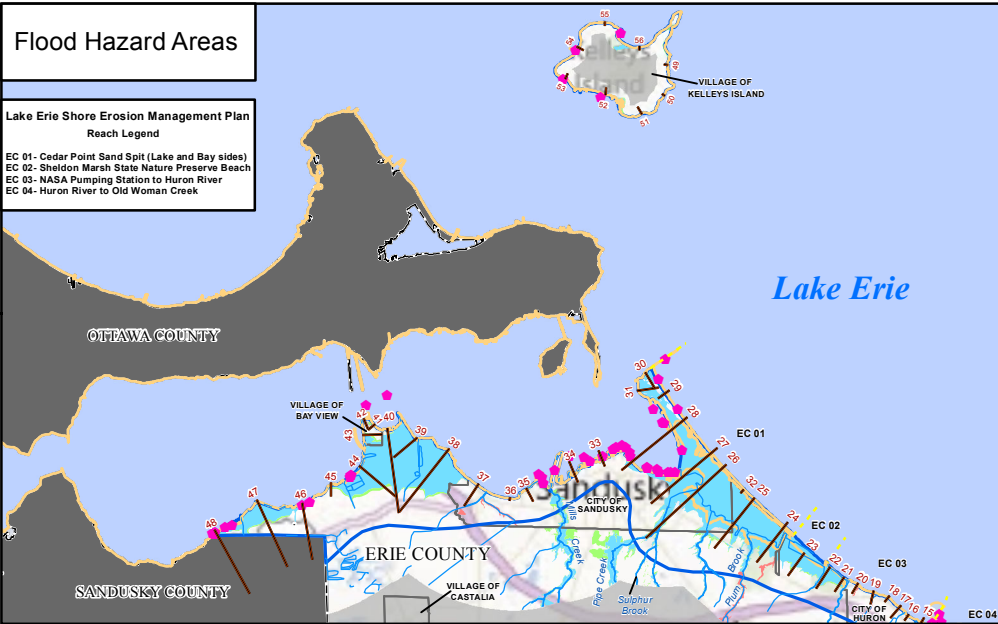
# A List of Locally Provided Documents

### **List of Locally Provided Data**

<b>Community</b>	<b>County</b>	<b>State</b>	<b>Data</b>
Erie County	Erie	OH	Topographic Maps in PDF
Erie County	Erie	OH	Selected Base Map Layers as Shapefiles

# Attachment C: Discovery Maps

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#### NFIP Total Losses

Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Erie County	236	191	0	44	1,555,989
Bay View, Village of	4	4	0	0	37,843
Huron, City of	128	105	0	23	732,297
Kelleys Island, Village of	N/A	N/A	N/A	N/A	N/A
Sandusky, City of	302	225	0	77	960,959
Vermilion, City of	360	323	0	37	3,834,830

#### Declared Disasters

State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Erie	DR	Tornado	Tornadoes, Severe Storms, and Flooding
OH	11/24/1972	Erie	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Erie	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Erie	DR	Severe Storm	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/19/2004	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/13/2005	Erie	DR	Severe Storm	Severe Storms, Tornadoes, Straight Line Winds, & Floods

#### Hazard Mitigation Action

Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Erie County - Countywide All Natural Hazards Mitigation Plan	02/07/2006	01/28/2013	Construct elevated or alternative roads that are unaffected by flooding to eliminated repairs and replacements due to deterioration caused by repeated flooding

### MAP SYMBOLOLOGY

<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>LOMC</li> <li>Transect</li> <li>Lake Erie Shoreline</li> <li>HUC 8</li> <li>CBRS*</li> <li>Stream</li> <li>Discovery Study Area</li> <li>Surrounding County</li> <li>County Boundary</li> <li>Municipal Boundary</li> </ul>	<ul style="list-style-type: none"> <li>Wave Gage</li> <li>Port</li> <li>Coastal Structure</li> <li>LESEMP<sup>1</sup></li> </ul> <p><b>SPECIAL FLOOD HAZARD AREAS</b></p> <ul style="list-style-type: none"> <li>A Zone</li> <li>AE Zone</li> <li>0.2 PCT ANNUAL CHANCE FLOOD ZONE</li> </ul>	<p><b>ERIE COUNTY AAL DATA</b> Total Average Annualized Loss per Census Block</p> <ul style="list-style-type: none"> <li>\$1 - \$2,500</li> <li>\$2,501 - \$100,000</li> <li>\$100,001 - \$250,000</li> <li>\$250,001 - \$750,000</li> <li>\$750,001 - \$2,000,000</li> </ul>	<p><b>CNMS** VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li>UNVERIFIED</li> <li>UNKNOWN</li> <li>VALID</li> </ul> <p>* CBRS - Coastal Barrier Resources System ** CNMS - Coordinated Needs Management Strategy <sup>1</sup> LESEMP - Lake Erie Shore Erosion Management Plan</p>
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### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

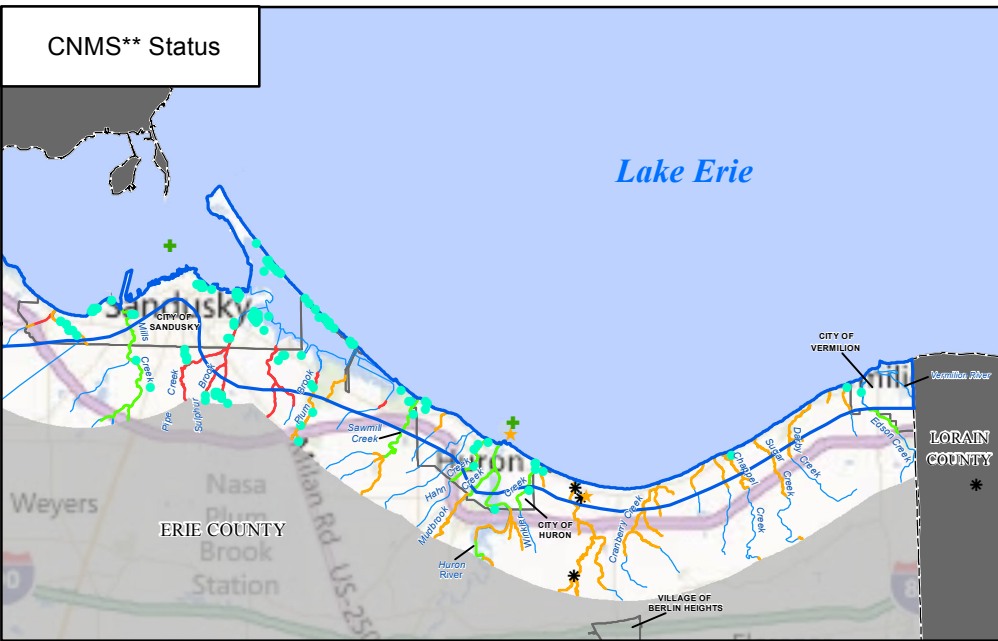
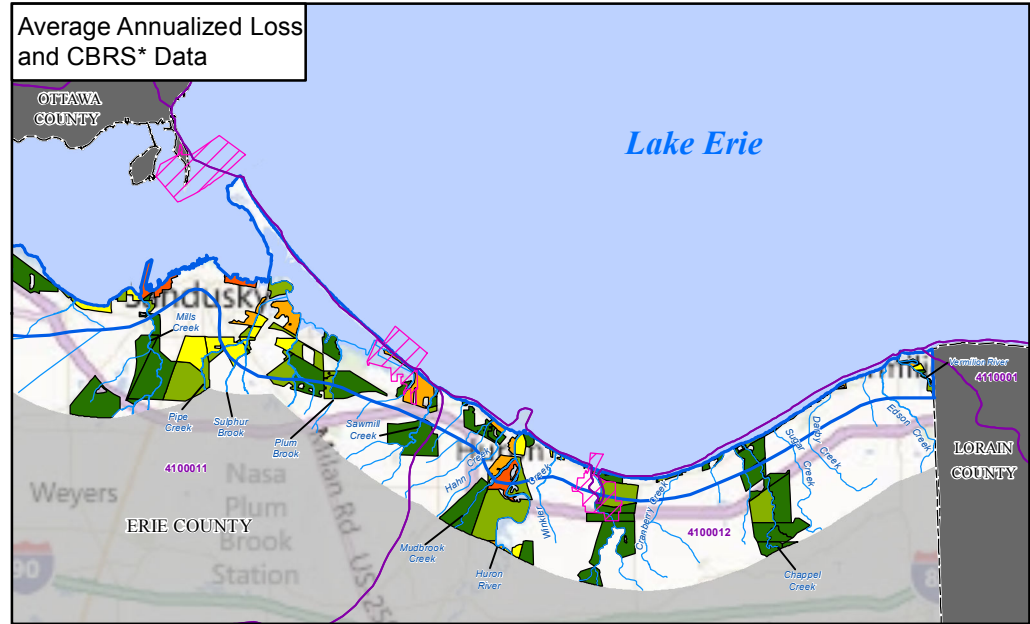
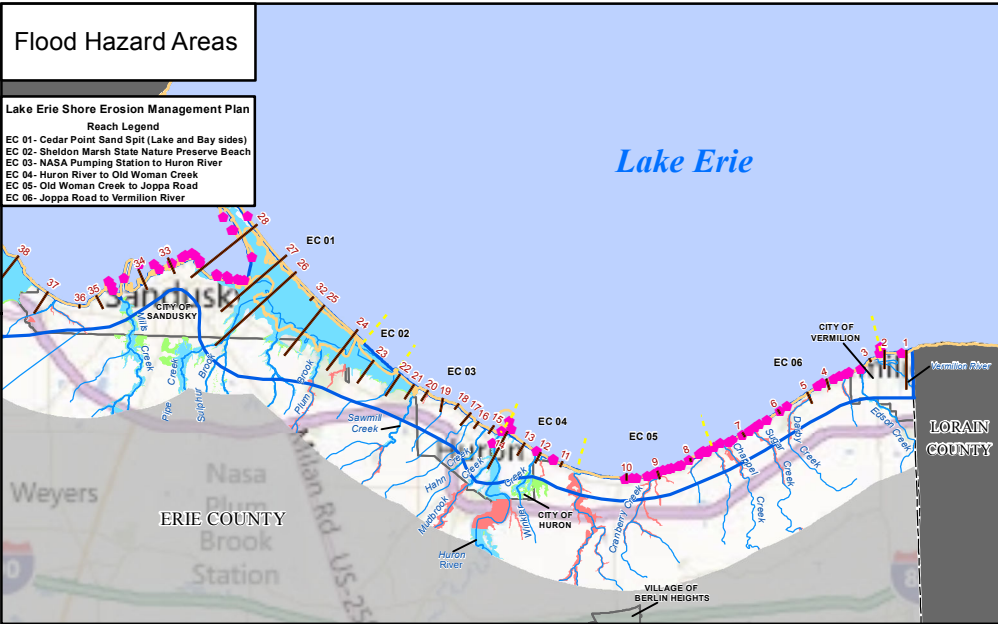
### Discovery Map

# LAKE ERIE COASTAL STUDY

Erie County, Ohio (Map 1 of 2)

Erie County, Kelleys Island, Village of Sandusky, City of Bay View, Village of Huron, City of Vermilion, City of

Final Discovery Map Date: March 29, 2013



### NFIP Total Losses

Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Erie County	236	191	0	44	1,555,989
Bay View, Village of	4	4	0	0	37,843
Huron, City of	128	105	0	23	732,297
Kelleys Island, Village of	N/A	N/A	N/A	N/A	N/A
Sandusky, City of	302	225	0	77	960,959
Vermilion, City of	360	323	0	37	3,834,830

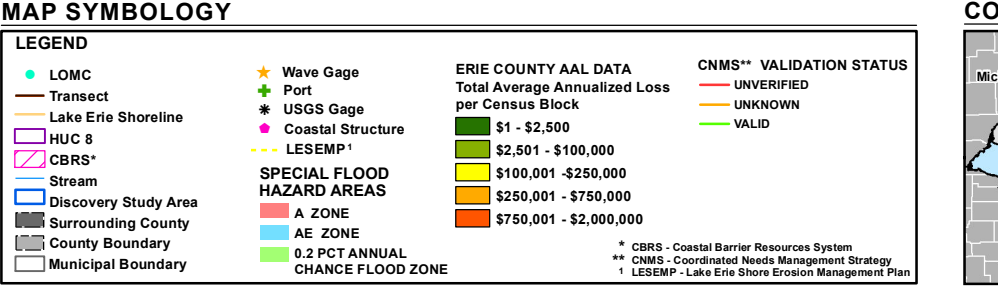
### Declared Disasters

State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Erie	DR	Tomado	Tornadoes, Severe Storms, and Flooding
OH	11/24/1972	Erie	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Erie	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Erie	DR	Severe Storm	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/19/2004	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/13/2005	Erie	DR	Severe Storm	Severe Storms, Tornadoes, Straight Line Winds, & Floods

### Hazard Mitigation Action

Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Erie County - Countywide All Natural Hazards Mitigation Plan	02/07/2006	01/28/2013	Construct elevated or alternative roads that are unaffected by flooding to eliminated repairs and replacements due to deterioration caused by repeated flooding



## NATIONAL FLOOD INSURANCE PROGRAM

### Discovery Map

# LAKE ERIE COASTAL STUDY

## Erie County, Ohio (Map 2 of 2)

Erie County  
 Bay View, Village of  
 Sandusky, City of  
 Huron, City of

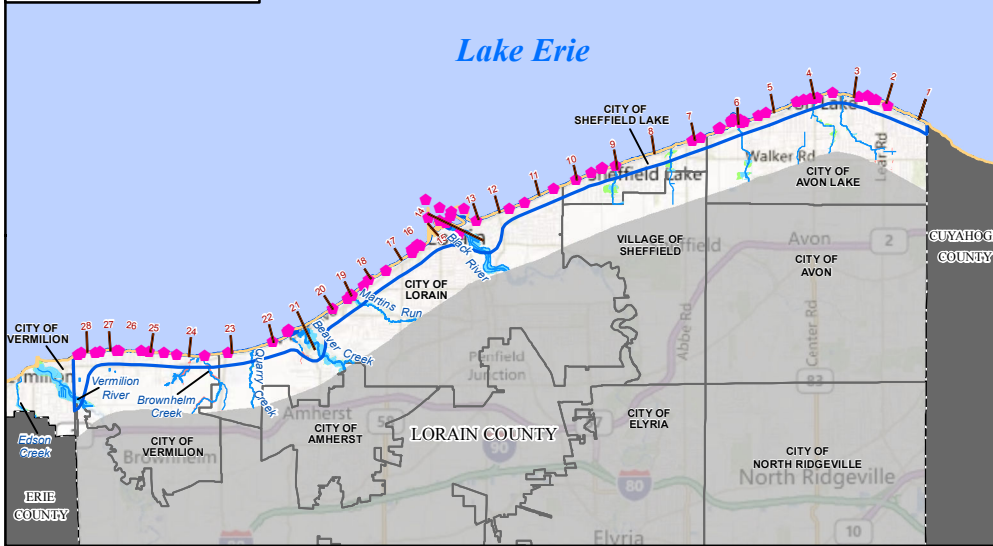
Kelleys Island, Village of  
 Sandusky, City of  
 Vermilion, City of

**RAMPP**  
 Risk Assessment, Mapping, and Planning Partners

**FEMA**

Final Discovery Map Date:  
 March 29, 2013

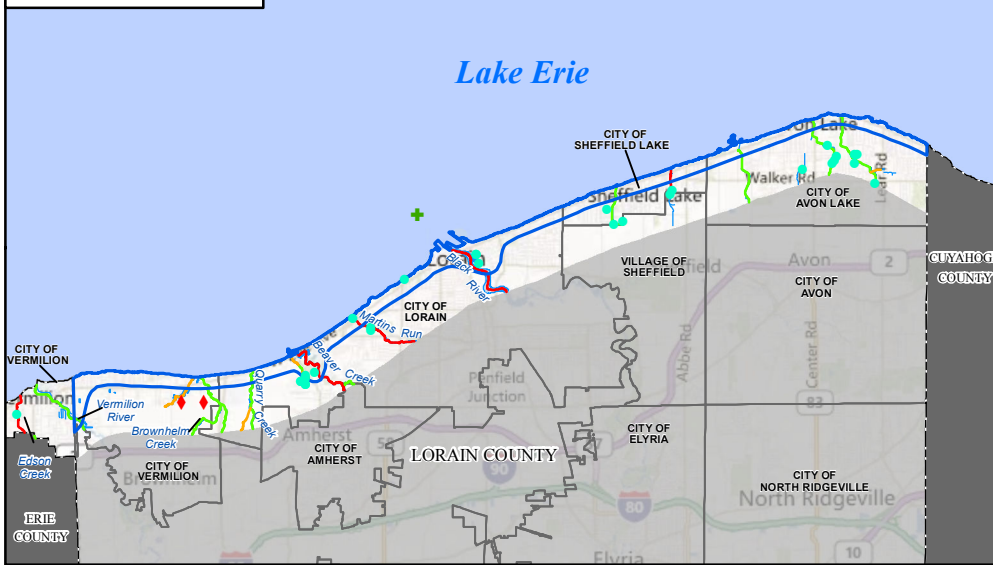
### Flood Hazard Areas



### Average Annualized Loss



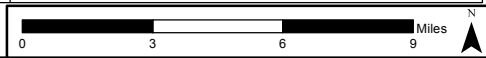
### CNMS\* Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Lorain County	65	55	0	10	729,364
Avon Lake, City of	8	4	0	4	29,909
Lorain, City of	53	27	0	26	744,636
Sheffield Lake, City of	14	5	1	8	14,258
Vermilion, City of	360	323	0	37	3,834,830

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Lorain	DR	Tornado	Tornadoes, Severe Storms, & Flooding
OH	07/19/1972	Lorain	DR	Flood	Tropical Storm Agnes
OH	11/24/1972	Lorain	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Lorain	DR	Flood	Severe Storms & Flooding
OH	06/10/1989	Lorain	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Lorain	DR	Severe Storms	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	06/03/2004	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	09/19/2004	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	02/15/2005	Lorain	DR	Severe Storms	Severe Winter Storms, Flooding, and Mudslides

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Lorain County - Countywide All Natural Hazards Mitigation Plan	08/09/2007	01/29/2012	Create a dedicated "radio" channel for decision-makers to utilize for coordination. Seek solutions to the inflow and infiltration with regard to the sanitary systems, such as replacing deteriorating sanitary sewer piping. Coordinate a First Response Team and train them in techniques on search and rescue emergencies when there is fast moving water.



### MAP SYMBOLOLOGY

<ul style="list-style-type: none"> <li>Transect</li> <li>Lake Erie Shoreline</li> <li>HUC 8</li> <li>Stream</li> <li>Discovery Study Area</li> <li>Surrounding County</li> <li>County Boundary</li> <li>Municipal Boundary</li> </ul>	<ul style="list-style-type: none"> <li>Dam</li> <li>LOMC</li> <li>Port</li> <li>Coastal Structure</li> </ul>	<p><b>LORAIN COUNTY AAL DATA</b> Total Average Annualized Loss per Census Block</p> <ul style="list-style-type: none"> <li>\$1 - \$2,500</li> <li>\$2,501 - \$100,000</li> <li>\$100,001 - \$250,000</li> <li>\$250,001 - \$750,000</li> <li>\$750,001 - \$2,000,000</li> </ul>	<p><b>CNMS* VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li>UNVERIFIED</li> <li>UNKNOWN</li> <li>VALID</li> </ul> <p><b>HAZARD MITIGATION GRANT PROJECTS</b></p> <ul style="list-style-type: none"> <li>Acquisition and Demolition</li> </ul>
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\*CNMS - Coordinated Needs Management Strategy

### COASTAL STUDY LOCATOR



**NATIONAL FLOOD INSURANCE PROGRAM**  
Discovery Map

**LAKE ERIE COASTAL STUDY**  
Lorain County, Ohio

Lorain County, Sheffield Lake, City of  
Avon Lake, City of, Vermilion, City of

**RAMPP**  
Risk Assessment, Mapping, and Planning Partners

**FEMA**

Final Discovery Map Date: March 29, 2013

# Attachment D: Discovery Meeting

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Attachment D-1: Meeting Agenda

Attachment D-2: Presentation

Attachment D-3: Sign-in Sheets

Attachment D-4: Meeting Summary

Attachment D-5: Meeting Evaluation Forms

Attachment D-6: Mitigation Action Form

Attachment D-7: Community Risk MAP Questionnaire Forms

Attachment D-8: Discovery Map Comments from Meeting

# Attachment D-1

## Meeting Agenda

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<b>Project Name:</b>	FEMA Region V Discovery
<b>Meeting:</b>	Erie and Lorain County, OH Great Lakes Coastal Discovery Meeting
<b>Date and Time:</b>	Wednesday August 1, 2012 10 AM to Noon
<b>Place:</b>	Ritter Public Library, Community Room 5680 Liberty Ave., Vermilion, OH 44089
<b>Facilitator:</b>	Mike Hanke (FEMA) and Amelia Vincent (RAMPP)

## Discovery Meeting Agenda

### 1. Why are we here? (15 minutes)

- Great Lakes Coastal Flood Study Overview and Schedule
- Discovery Process and Outcomes

### 2. Coastal mapping and flood risk topics to be aware of (25 minutes)

### 3. How does this apply to my community? (10 minutes)

### 4. Interactive Session A (25 minutes)

- View and Discuss Local Coastal Areas of Concern Using the Discovery Map and Community Risk MAP Questionnaire

### 5. Hazard mitigation opportunities and grant funding (10 minutes)

### 6. Interactive Session B (25 minutes)

- Discuss Mitigation Action Opportunities
- Introduce the Mitigation Action Form and the State Hazard Analysis Resource and Planning Portal (SHARPP)

### 7. Wrap Up (10 minutes)

- Review of action items and next steps

### *Optional Interactive Stations (30 minutes - 1hr following meeting)*

- *Draft Transect Map Station: Talk to technical staff about draft transects and view draft transects in GIS*
- *Mitigation Resources, Strategies, and Actions Station: Talk with FEMA and State staff about areas of concern and potential mitigation actions to help reduce risk. Fill out Mitigation Action Form.*

# Attachment D-2 Presentation

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# Lake Erie Discovery

## Erie and Lorain County, OH

August 1, 2012  
10 am to 12 pm

Ritter Public Library  
Vermilion, OH



City of Vermilion



## Introductions

### Who's here?

- State Representatives
  - ODNR
  - OEMA
- Risk MAP Project Team
  - FEMA
  - RAMPP
- Local Stakeholders
  - CEOs
  - Floodplain Administrators
  - Planners
  - Engineers
  - Emergency Managers
  - Community Leaders
  - Regional Planning Agencies
  - Coastal Organizations



## Discovery Meeting Agenda



- Why are we here?
  - Risk MAP Program, Great Lakes Study, and Discovery
- Coastal mapping and flood risk topics
- How does this apply to my community?
- Interactive Session A
  - View and Discuss Local Coastal Areas of Concern Using the Discovery Map and Community Risk MAP Questionnaire
- Hazard mitigation opportunities and grant funding
- Interactive Session B
  - Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form/SHARPP
- Wrap Up
- Optional Interactive Stations



## Risk Mapping, Assessment and Planning Risk MAP



Through collaboration with State, Local, and Tribal entities, Risk MAP aims to deliver **quality data** that increases **public awareness** and leads to **action that reduces risk** to life and property



## Great Lakes Coastal Flood Study



## Great Lakes Coastal Flood Study Overview



- Latest models, data, and technology
  - Includes basin-wide water surface grids and storm sampling built from continuous record of 50 years of meteorological, water level, and ice field data (1960 - 2009)
  - Includes changes to runup computational approach
  - Updated version of Appendix D.3 (FEMA Guidelines and Standards)
  - Latest imagery, LiDAR, and Bathymetry
  - Deliver updated flood maps and flood risk datasets
- Equip Federal Agencies, eight States and hundreds of coastal communities with data and planning tools to facilitate flood risk actions to enhance resiliency along the Great Lakes



# Lake Erie Discovery



## 13 counties

- Ohio
  - Ashtabula
  - Cuyahoga
  - Erie
  - Lake
  - Lorain
  - Lucas
  - Ottawa
  - Sandusky
- Michigan
  - Monroe
  - Wayne
- New York
  - Chautauqua
  - Erie
- Pennsylvania
  - Erie



## 132 coastal communities

**RiskMAP**  
Increasing Resilience Together

**Great Lakes Coastal Flood Study**

greatlakescoast.org



# Discovery Meeting Objectives



- Continue and expand upon stakeholder engagement
- Discuss data inputs from Federal, state and local
- Identify local coastal flood hazard needs and areas of concern
- Identify products and datasets that best advance coastal mitigation action
- NFIP regulatory updates
- Discovery schedule and deliverables

**RiskMAP**  
Increasing Resilience Together

**Great Lakes Coastal Flood Study**

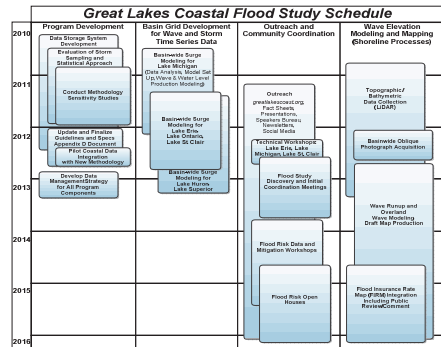
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# Stakeholder Engagement



## Great Lakes Coastal Flood Study Schedule



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# Data Inputs



- Updates to analysis and methodology guidance
- Proposed transect locations
- Topographic and Bathymetry data collected
- Bare Earth Imagery collected
- Identify reaches requiring special attention and data
- Document local data sources that will help improve study

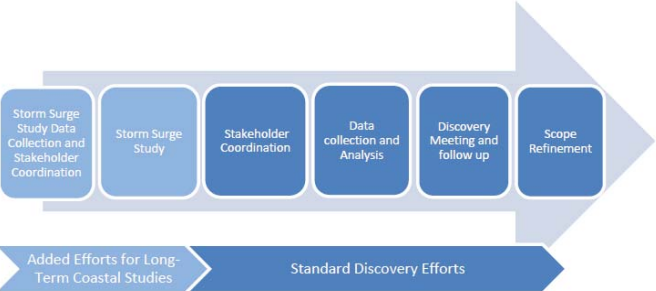
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# Discovery Schedule Overview



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# Lake Erie Discovery



## Schedule of Activities

- Identify Draft Transect Locations – Completed
- Research available data – Completed
- Information Exchange with Community Stakeholders – July 2012
- Prepare draft Discovery Maps and Reports – July 2012
- Establish inventory of coastal structures based on oblique imagery – August/September 2012
- Facilitate Discovery Meetings – July/August 2012
- Final Discovery Report and Maps – November 2012
- Create library of digital data – November 2012

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# Great Lakes Coastal Flood Study Discovery Products



- **Final Discovery Report**
  - Single, comprehensive report for all of Lake Erie, with appendices for each Discovery meeting
  - Includes pre-discovery data, meeting agenda, sign-in sheets, discussion topics, decisions made, etc.
- **Final Discovery Maps**
  - Including feedback from participants
  - Visual representation of meeting outcomes
  - Delivered in digital format



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# Discovery Outcomes



- **Explain the Project**
  - Regulatory and non-regulatory products/datasets
  - Analysis, concepts, and timelines
- **Encourage Community Participation**
  - Transect Locations
  - Areas of concern and need
  - Data to improve upon products and datasets
- **Introduce Mitigation Action**
  - Mitigation Action Form
  - SHARPP
  - Mitigation strategies for coastal flood and erosion

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# Data Collected



- Topographic – Light Detection and Ranging (LiDAR) from OSIP
- Bathymetry Data\* – NOAA National Geophysical Data Center
- Base data – boundaries, streams, census blocks, etc.
- Average Annualized Loss data
- Shoreline classification
- Federal and State disaster information
- Repetitive loss data
- Mitigation plans
- Stream, wave, and water level gage locations

\* New, high-quality USACE bathy/topo will replace existing data

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# Data Gaps



- Building footprints
- Critically eroded beach areas
- Coastal construction control line
- Critical Facilities (in GIS format)
- High water marks
- Areas of recent or planned development and high growth
- Recent land changes due to development or erosion
- Known flooding issues not represented on effective FIRMs or listed in CNMS

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# Coastal Mapping and Flood Risk Topics

- Draft Transects
- Coastal Guidance Updates
- VE Zone Mapping and LIMWA
- Coastal Flood Risk Products

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# Basic Elements of a Coastal Hazard Analysis



Base Flood Elevation on FIRM includes 4 components:

1. Storm surge stillwater elevation (SWEL)
  2. Amount of wave setup
  3. Wave height above storm surge (stillwater) elevation
  4. Wave runup above storm surge elevation (where present)
- } Determined from storm surge model



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## Transect Placement



- Transects are placed to define representative profiles for a shoreline reach
- Transect spacing depends on upland development
  - Developed areas – As dense as 1,000 ft
  - Rural areas – Spacing can be 1-2 miles
- Transects are:
  - Profiles along which flooding analysis is performed
  - Used to transform offshore conditions to the shoreline
  - Use to define coastal flood risks inland of shoreline

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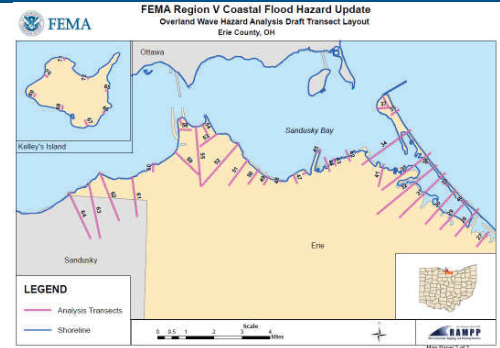
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## Draft Transect Layout Erie County



- 72 transects
- 37 miles of shoreline along Lake Erie
- 36 miles of shoreline along Sandusky Bay



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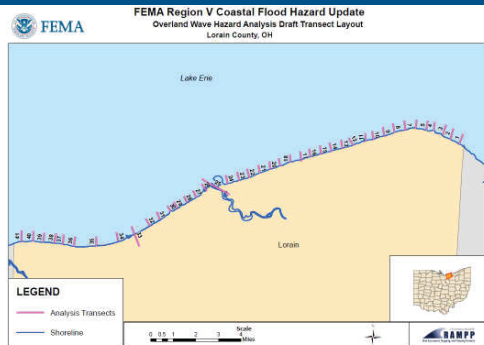
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## Draft Transect Layout Lorain County



- 41 transects
- 24 miles of shoreline along Lake Erie



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## Coastal Flood Hazard Zones



- Hazard Zones**
  - Zone VE** – Areas expected to be affected by high velocity wave impact in 100-year event (wave heights or runup depth at or greater than 3 feet)
    - Base Flood Elevation established
  - Zone AE** – Areas expected to be flooded by inundation in 100-year event
    - Base Flood Elevation established (wave heights and runup depth less than 3 feet)
  - Zone X** – Areas not expected to be flooded in 100-year event
    - Shaded X – Areas expected to be flooded in 500-year event
    - Base Flood Elevations not established
  - LiMWA** – Areas subject to wave heights of at least 1.5 feet
    - Non-Regulatory
- Gutters**
  - Internal zone breaks where Base Flood Elevation changes
  - VE/AE Gutter - Location where risk of damage due to wave action diminishes

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## VE Zones in the Great Lakes



- From the revised Appendix D.3:
  - “VE zones may also be mapped where the engineering analysis indicates their presence”
  - “The typical study finding is a narrow VE zone, making its usefulness uncertain on maps at usual scales”
  - “Relatively small numbers of existing coastal buildings are likely to be affected by possible VE zone designations along some Great Lakes”
  - “Only with prior approval from the FEMA study representative should the VE zones be mapped”

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## How is LiMWA Defined?



- LiMWA** is the line mapped to delineate the inland extent of wave heights of at least 1.5 feet
  - Wave heights as small as 1.5 feet can cause significant damage to structures
- LiMWA** alerts people that are not in the high wave hazard zone (Zone VE) that they may still be affected by wave action in the Zone
- CRS** benefit for communities requiring Zone VE construction standards in areas defined by LiMWA or areas subject to waves greater than 1.5 ft

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# Wave Action - Structural Risk



- US Army Corps of Engineers – 1973
  - Breaking wave height of 3 feet
  - “area subject to high velocity waters, including but not limited to hurricane wave wash”
- FEMA – 2000
  - Coastal Construction Manual
  - Additional post-storm damage assessments identified 1.5 wave also can knock a structure off a foundation



[http://www.fema.gov/pdf/rebuild/mat/coastal\\_a\\_zones.pdf](http://www.fema.gov/pdf/rebuild/mat/coastal_a_zones.pdf)

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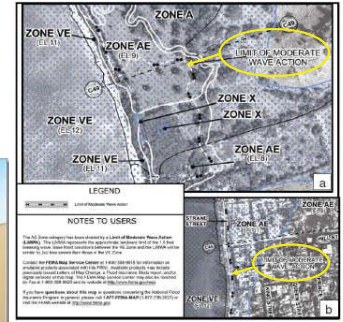
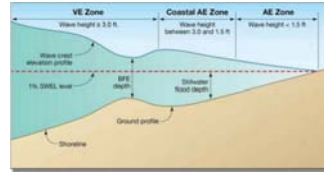


# Limit of Moderate Wave Action (LiMWA)



## FEMA Procedure Memorandum No. 50, 2008

- Not a regulatory requirement
- No Federal Insurance requirements tied to LiMWA



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# Coastal Flood Risk Products

- Coastal Depth Grids and HAZUS
- Changes Since Last FIRM
- Coastal Non-Regulatory Products

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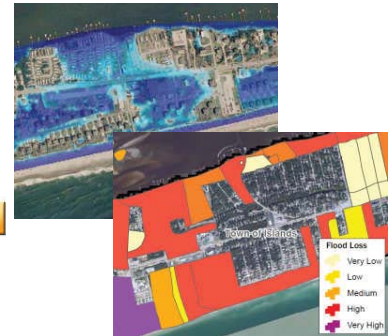


# Standard Flood Risk Products



- Coastal Depth Grids
- Flood Risk Assessment (HAZUS)

**HAZUS**  
EARTHQUAKE • WIND • FLOOD MH



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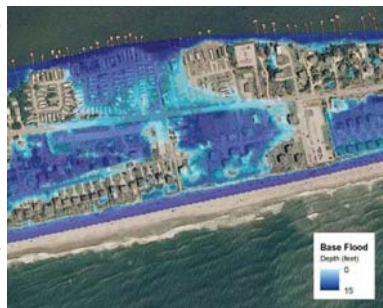
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# Coastal Depth Grid



- Should reflect total depth (i.e. stillwater and waves) – typically only produced for the 1% annual chance flood
- Created using the regulatory mapping and associated zone breaks as input
- Depths reflect difference between wave crest elevation and ground for the 1-percent-annual-chance flood



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# Coastal Flood Risk Assessments



- Similar to Flood Risk Assessments for riverine, but using the coastal depth grids as input for the refined analysis
- HAZUS analysis and data can support adoption of higher regulatory standards for structures in high loss areas
- Provides justification to fund mitigation actions



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## Changes Since Last FIRM



Data Fields Include	Example Data Values
Old Study Date	e.g. 1985
Old Model Type(s)	e.g. HEC-1 / HEC-2
Old Zone Type	e.g. Zone A
Old Topography	e.g. USGS 10-ft
New Study Info/Methods	Dates, Models, etc.
New Study Zone	e.g. Zone AE
New Topography	e.g. LiDAR 2-ft
New Study Engineering Factors / Changes	e.g. new structures, gages, topo, landuse, etc.
Estimated Structures	e.g. 9
Estimated Population	e.g. 27

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## Coastal Non-Regulatory Products



- If and when are products produced?
  - Operating Guidance for the Selection of Enhanced Datasets
  - Availability of coastal analysis modeling information
  - Will the information be beneficial to the communities?
    - Increase risk awareness?
    - Facilitate mitigation actions?
- Products may be produced for the entire coastline or focused areas determined to be the most valuable
  - Discovery process should facilitate these selections
- Additions to Flood Risk Map, Flood Risk Database, & Flood Risk Report
- Datasets will not be recreated from existing data available outside of FEMA. Direction to such information will be provided in the Flood Risk Report.

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## Coastal Non-Regulatory Products in Development



### Lake Levels



### Shoreline Feature Dataset



Source: ODNR Office of Coastal Management

### Erosion



Lake Erie Shoreline  
Source: ODNR Office of Coastal Management

Lake Erie Erosion  
From ODNR website



### Flooding

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## Shoreline Features Database



Shoreline Material	Primary Land Use	Primary Coast Type	Primary Vegetation
Sand	High Density Residential	High Dune, 10'+	None
Cohesive	Moderate Density Residential	Dune, 2' - 10'	High Density Shrubs/Trees
Cobble	Low Density Residential	High Bluff, 10'+	Moderate Density Shrubs/Trees
Diamicton*	Commercial/Industrial	Bluff, 2' - 10'	Low Density Shrubs/Trees
Shingle	Park Land	Coastal Wetland	Manicured Lawn
Bedrock	Farm Land	Flat Coast	Native Vegetation
Artificial	Forested		

- Contains primary and secondary Land Use tables – same for coast type and vegetation
- Current project collects data at one-mile spacing, for scoping and cost
- Current project does not include field-based reconnaissance or sediment/subsurface soils collection

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## Coastal FRM

- Similar to riverine map
- Highlights area where datasets were produced
- Use of callout boxes
- Should drive the conversation towards mitigation



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## Areas Affected by Increased Coastal Inundation



- Highlights areas that would be inundated if water levels increased by 1, 2, or 3 ft (or other user-defined increase)
- Typically created for the 1% annual chance flood, but could be done for other flood events
- Possible causes for higher flood levels include more severe storm events and climate change impacts such as sea level rise



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## Wave Hazard Severity Areas



- Highlights areas where wave hazard are high (V Zone and PFD), moderate (between V Zone and LiMWA where wave heights are between 1.5 – 3ft), and minimal (wave heights less than 1.5ft)
- Dataset can also optionally store number of buildings within each delineated polygon (if local building footprint data is available)



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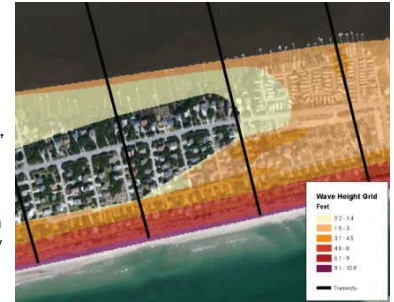
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## Coastal Wave Height Grid



- Dataset showing wave height information to greater detail than the Wave Hazard Severity Areas dataset by delivering within a raster dataset
- Represents the full wave height, not just the portion of the wave crest that lies above the stillwater elevation
- Wave damage to structures can be mitigated if they are properly elevated above predicted water levels and wave heights on engineered foundations



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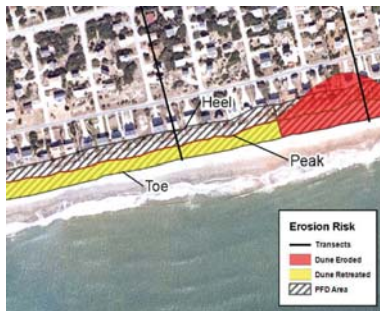
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## Erosion Risk Determination



- Polygons depicting the spatial extent of the regulatory Primary Frontal Dune (PFD), based on topography and/or shoreline survey data and augmented with aerial photos as needed
- Polygons can be further subdivided to show the spatial extent of the eroded ground as estimated from the erosion analysis conducted for the 1% annual chance flood



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## Coastal Updates to Flood Risk Report



- Explanations of coastal non-regulatory datasets and their use in risk communication and mitigation planning
- References to other publications and resources that provide information on coastal risks
- Captures and reports increases and decreases in Coastal High Hazard Areas (VE & V Zones) within the Changes Since Last FIRM tables in the FRR

Area of Study	Total Area (mi <sup>2</sup> )	Increase (mi <sup>2</sup> )	Decrease (mi <sup>2</sup> )	Net Change (mi <sup>2</sup> )
Within SFHA	23.8	1.6	0.4	1.2
Within Floodway	1.4	0.2	0.0	0.2
Within CHHA (VE or V Zone)	7.8	0.9	0.5	0.4

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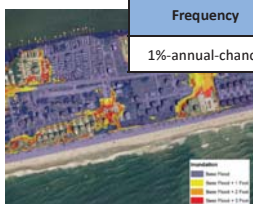


## Coastal Updates to Flood Risk Report



- Captures and reports the additional areas that would be inundated, based on 1, 2, or 3 feet of increased inundation

Flood Event Frequency	Area of Additional Inundation (mi <sup>2</sup> )				
	1-ft Increase	2-ft Increase		3-ft Increase	
		Newly Inundated	Total	Newly Inundated	Total
1%-annual-chance	0.6	0.8	1.4	1.2	2.6



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## Coastal Updates to Flood Risk Report



- Captures and reports the total area and number of structures (if available) within each of the 3 different levels of wave hazard (High, Moderate, and Minimal)

Coastal Wave Hazard Severity	Total Area (mi <sup>2</sup> )	# of Structures
High	0.4	15
Moderate	2.6	187
Minimal	3.3	296



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## Non-Regulatory Product Usage and Action



- Risk MAP Products and Datasets help communities make good decisions to reduce flood risk:
  - Hazard Mitigation Planning
  - Floodplain Management and Community Rating System
  - Community Comprehensive or General Planning
  - Community Investment - Capital Improvement Planning
  - Public Outreach
  - Hazard Mitigation Assistance Grant Application Prioritization and Support
  - Other Non-FEMA Grants to Reduce Flood Risk
  - Response and Recovery Planning
- Mitigation Action Form

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## How does this apply to my community?

- NFIP Compliance
- Local impacts of coastal study
- Hazard Mitigation Opportunities
- Grant Funding

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## National Flood Insurance Program



- Allows property owners to purchase flood insurance at reduced rates
- Community responsibilities
  - adopt and enforce compliant regulations
- FOCUS is in building the local floodplain management capability
- In Ohio, approximately 750 communities participate in the NFIP



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## V Zones for Ohio?



- Ohio currently does not have V/VE Zones or Coastal A/AE Zones
- All Counties along Lake Erie (except Ottawa County) have recently updated regulations
- If coastal flood zones are added, all affected communities must update regulations to include coastal requirements.
  - ODNR will provide regulations assistance and technical support if/when coastal flood zones are added for Ohio.

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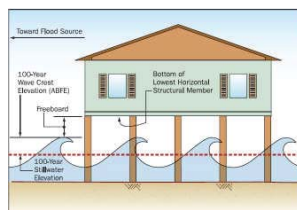
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## Coastal Zones and NFIP Compliance



- Must meet minimum NFIP and community coastal requirements
- NFIP design and construction requirements are more stringent in V zones due to wave, debris, and erosion hazards in V zones
- Recommendations for exceeding the minimum NFIP requirements (Coastal A Zones)
  - Can obtain CRS credits for Coastal A Zone Requirements
- Resources Available



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## Community Rating System (CRS)



- Flood insurance premium rates discounted to reward community actions that reduce flood losses, facilitate accurate insurance ratings, and promote the awareness of flood insurance
- Class rating system from 1 to 10
- Each Class improvement (500 point increments) results in additional 5% discount, up to 45% in SFHAs for Class 1 communities
- Uniform minimum credits give you points for activities on the state level (state laws) and make achieving a Class 9 relatively easy
- 18 creditable activities organized under four categories:
 

Public Information	Mapping and Regulations
Flood Damage Reduction	Flood Preparation
- <http://training.fema.gov/EMIWeb/CRS/>

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# Ohio CRS Communities



In Ohio, there are 14 CRS communities.

- Cities
  - Fairfield, Kettering, New Richmond, Obetz, Shelby, South Euclid & West Carrollton
- Villages
  - Delta, Orange and Ottawa
- Counties
  - Licking, Ottawa, Preble and Medina



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# Coastal Resources



- **Coastal Erosion Area Maps**
  - Identify areas of anticipated recession based on historic recession rates
- **Lake Erie Shore Erosion Management Plan**
  - Provides regionally based erosion mitigation recommendations
- **Coastal Design Manual**
  - Provides detailed design guidance for engineers and surveyors (erosion control measures)

For more information visit:  
[www.ohiodnr.com/coastal](http://www.ohiodnr.com/coastal)

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# Interactive Session A

- View and Discuss Local Coastal Areas of Concern Using the Discovery Map and Community Risk MAP Questionnaire

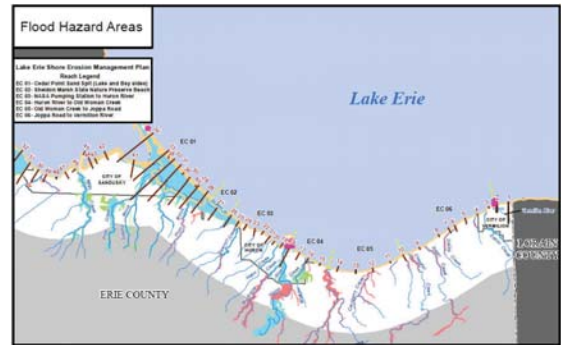
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# Erie County, OH Discovery Map – Flood Hazard Areas



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# Erie County, OH Discovery Map – CNMS Status



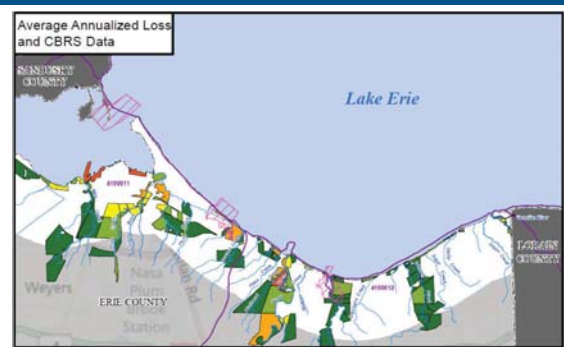
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# Erie County, OH Discovery Map – AAL and CBRS



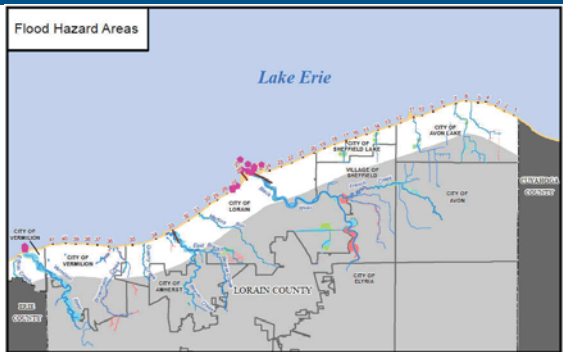
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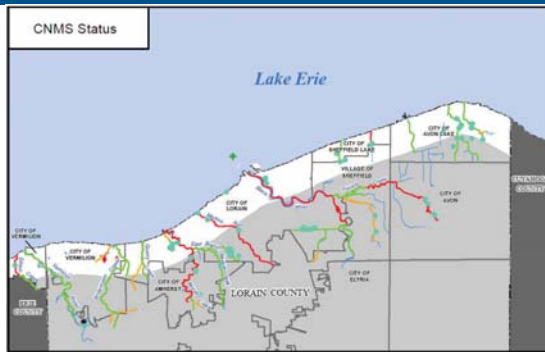
## Lorain County, OH Discovery Map – Flood Hazard Areas



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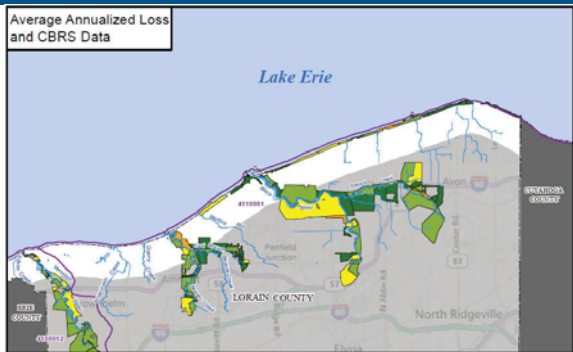
## Lorain County, OH Discovery Map – CNMS Status



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## Lorain County, OH Discovery Map – AAL and CBRS



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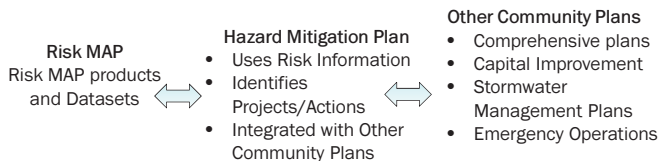
## Hazard Mitigation

- Opportunities
- Grant Funding

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## Local Hazard Mitigation Plans



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## Mitigation Actions



- Address specific **existing** assets (e.g., elevate critical facility, enlarge a culvert)
- Address **future** risks (e.g., update building codes)
- Based on local capabilities
  - Build on current strengths, ongoing efforts (add-on to stormwater management regulations)
  - Coordinate with Federal programs (e.g., NFIP, CRS)



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# Example Mitigation Actions



**STRUCTURAL PROJECTS**  
Acquisition  
Elevation  
Retrofits  
Drainage

**PLANNING MECHANISMS**  
Zoning  
Building Codes  
Ordinances  
Open Space Plan

**EDUCATION & OUTREACH**  
Public Awareness  
Outreach  
Educational programs

**NATURAL RESOURCE PROTECTION**  
Stream and wetland restoration  
Erosion control



# Mitigation Activities

- Erie County Mitigation Actions
  - Eliminate cross contamination of storm and sanitary sewers by eliminating combined sewer systems and separating storm and sanitary sewer systems.
  - Replace undersized culverts to avoid overflow and washouts of driveways and roadways
- Lorain County Mitigation Actions
  - Seek solutions to the inflow and infiltration with regard to the sanitary systems, such as replacing deteriorating sanitary sewer piping.
  - Evaluate roadway infrastructure in areas prone to erosion to determine structural stability and further action needed to eliminate future structural damage due to eroding soils.



# Mitigation Grant Programs and Funding Sources

- **Federal**
  - Hazard Mitigation Grant Program (HMGP)
  - Pre-Disaster Mitigation Grant Program (PDM)
  - Flood Mitigation Assistance (FMA)
  - Repetitive Flood Claims (RFC)
  - Severe Repetitive Loss (SRL)
- **State**
  - Clean Ohio
  - State General Revenue Funds
  - Community Development Block Grants
- **Local**
  - Watershed Conservancy Districts
  - Local taxes
  - Storm water utilities



# Ohio Mitigation Best Practices Gristmill Condominium Acquisition



# Hazard Mitigation Resources, Strategies & Actions

- The right action (or mix of actions) will be based on recent community experiences and level of complexity in existing infrastructure
  - Public Works
  - Building Standards
  - Community Planning and HM Plan Update / Integration processes
  - Communication Processes, GIS, etc.
- Get the right people to the table: Integrated vs. Discipline-specific
- Document ideas and actions through the FEMA Mitigation Action Form

<b>Land Use Ordinances</b>  Zoning, Setbacks, Floodplain Management, etc.	<b>Local Building Codes</b>  IBC, IRC, Local Regulations, etc.	<b>Mitigation Projects</b>  Acquisition, Elevation, Floodproofing, etc.	<b>Community Identified Mitigation Programs</b>	<b>Management Best Practices</b>  Integration of natural hazards into other planning mechanisms
---	--	---	---	---



# Interactive Session B

- Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form/SHARPP



# Capturing and Tracking Mitigation Actions



## Mitigation Action Form

### Purpose and Help

This form is meant to assist the collection of Mitigation Actions.  
 Online Mitigation Action Collection: <http://data.ohio.gov/sharpp>

State Hazard Mitigation Officers Directory: <http://data.ohio.gov/sharpp/contacts/sharpp>

### Your Information

Please enter the primary contact associated with this Mitigation Action.

1. Full Name Required  
 Please provide your full name, e.g., Michael Scott

2. Email Address Required  
 Please provide your email address, e.g., michael@domain.com

3. Your Title and Organization Required  
 Please provide your relevant title and organization as it applies to this form, e.g., Regional Administrator for City of Boston, Canada

### Mitigation Action Information

Before please enter information as it directly applies to the mitigation action you are discussing.

4. Jurisdiction Name(s) Required  
 Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g., City of Boston, CA

5. Mitigation Activity Name Required  
 The Mitigation Activity Name should be concise but descriptive. For example, Flood acquisition projects along south side of Main St.

6. Mitigation Action Status Required  
 Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, a "To-do" status suggests that the action has been scoped or funded with intention to move to the "Progress" and advance toward "Completion".

Identified  In-progress  Completed

7. Mitigation Action Source Required  
 Please check the appropriate box. The Mitigation Action Source defines the source/instrument that identified or initiated the action or changing its status.

Risk MAP Process  FEMA Database  
 Comprehensive Land Use Plan  Local Mitigation Plan  
 Capital Improvement Plan  FEMA Silver Jackets  
 Other

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.

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# SHARPP



The screenshot shows the SHARPP website interface. At the top, there are navigation links for "Mitigation Home", "Contacts", "Hazards", "Planning", "Mitigation Projects", "Reports", "FAQ's", and "Links". Below this is a header for the "Ohio.gov Department of Public Safety" and "OHIO'S CIVIL DEFENSE CENTER". The main content area features a "Properties Mitigated: 690" and "Damages Prevented Through Mitigation: \$4,480,488.00". It also includes a "SHARPP Login" section with fields for "User Name" and "Password", and a "Mitigation News" section with a "Log In" button.

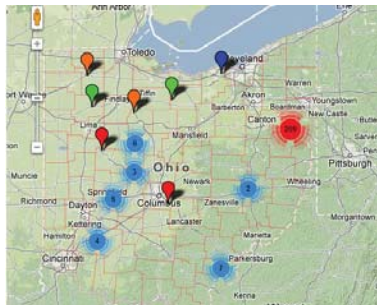
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# Area Of Mitigation Interest (AOMI) in SHARPP



- Each AOMI point contains data about the area of interest



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# AOMI



The screenshot shows the AOMI tool interface. It features a map of Sandusky, Ohio, with several AOMI points marked. A legend on the right side of the map identifies the points by color and type: red for "Other Flood Risk Areas (23)" and green for "Under Capacity Culvert or Bridge Openings (10)". The interface also includes a "Map" and "Satellite" view toggle, a "Zoom" control, and a "Getting Started" section with instructions on how to use the tool.



# AOMI



This screenshot is identical to the one in the previous slide, showing the AOMI tool interface with a map of Sandusky, Ohio, and a legend for AOMI points.

- ### AOMI Information
- [+ Add new AOMI](#)
- Getting Started**  
 To get started, zoom to the location of the Mitigation Interest. Then, click on "Add new AOMI" to place a point on the specific location.
- [+ Submit AOMI](#)
- Success**
- How to submit an AOMI:**
- Place a point on the map. Either zoom to where you'd like or enter an address. You can drag your point until you're happy with its location.
  - Click "Submit New AOMI", which will enter the AOMI form.
  - Enter your information and data about the location.
  - Repeat as necessary.



# AOMI



**Personal Information**

First Name Ex: Michael

Last Name Ex: Blach

Email Ex: mscar@lamascor.com

Organization Ex: Ohio EDC

**AOMI-Specific Information**

**AOMI Title**  
 Please enter a useful and descriptive title. Ex: Main Street Culvert Under Capacity

**Hazard Faced**  
 Select the primary hazard causing the problem.

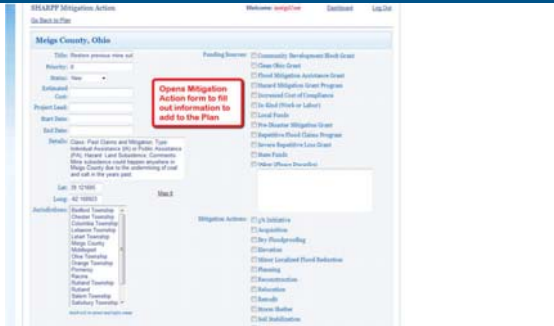
**Flood Hazard Classification**  
 Select the class of the mitigation interest.

**Specific Type of Mitigation Interest**  
 Select the type of the mitigation interest.

**AOMI Comments or Description**  
 Please give some meaningful information about this area and the problems facing it.



# AOMI



RiskMAP

MITIGATION INTEREST

MITIGATION ACTION

MITIGATION PROJECT

MITIGATION SUCCESS

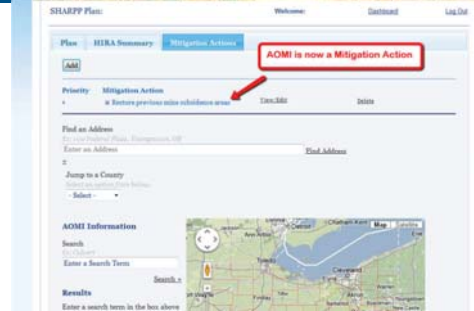
AOMI Tool

Plan Module

SHARPP Project Module

Measures

# AOMI



RiskMAP

MITIGATION INTEREST

MITIGATION ACTION

MITIGATION PROJECT

MITIGATION SUCCESS

AOMI Tool

Plan Module

SHARPP Project Module

Measures



# Questions?

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# Results from Interactive Sessions



- Review and Clarify Communication, Planning, and Compliance Needs
  - Local coastal areas of concern
  - Existing local coastal data
  - Mitigation Action opportunities
  - Mitigation Action form
  - SHARPP

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# Next Steps



- Communities will:
  - Provide all data and Mitigation Action Forms to RAMPP by August 31, 2012
- RAMPP/FEMA will:
  - Assess data and information provided
  - Email summary of today's Discovery Meeting to you within one month
  - Prepare final Discovery Maps and Discovery Report
  - Follow-up regarding Risk MAP Project

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# Optional Interactive Stations



- Draft Transect Map Station
  - View draft transect locations and oblique imagery in data viewer
  - Discuss draft transect locations with technical staff
- Mitigation Resources, Strategies, and Actions Station
  - Talk with FEMA and State representatives about areas of concern and potential mitigation actions to help reduce risk
  - Fill out Mitigation Action Form/SHARPP

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# Contacts



## FEMA

Mike Hanke

[michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov)

Ken Hinterlong

[ken.hinterlong@fema.dhs.gov](mailto:ken.hinterlong@fema.dhs.gov)

## RAMPP

Amelia Vincent

[amelia.vincent@URS.com](mailto:amelia.vincent@URS.com)

## State of Ohio

Katherine Skalak

[katherine.skalak@dnr.state.oh.us](mailto:katherine.skalak@dnr.state.oh.us)

Steve Ferryman

[saferryman@dps.state.oh.us](mailto:saferryman@dps.state.oh.us)

Deborah Beck

[deborah.beck@dnr.state.oh.us](mailto:deborah.beck@dnr.state.oh.us)

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Great Lakes  
Coastal Flood Study

[greatlakescoast.org](http://greatlakescoast.org)





# Attachment D-3

## Sign-In Sheets

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**Erie and Lorain County, Ohio Discovery Meeting Sign-In Sheet**
**August 1, 2012**

Please sign in and confirm your contact information, making changes below as needed.

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
City of Sandusky – Dept. of Planning, Engineering & Development	Jane Cullen	222 Meigs Street	Sandusky, OH 44870	419-627-5932	jcullen@ci.sandusky.oh.us	
City of Sandusky – Dept. of Planning, Engineering & Development	Todd Roth	222 Meigs Street	Sandusky, OH 44870	419-627-5830	troth@ci.sandusky.oh.us	
Erie County Office of Homeland Security and Emergency Management	Timothy Jonovich	2900 Columbus Ave	Sandusky, OH 44870	419-627-7617	tjonovich@eriecounty.oh.gov	
City of Vermilion	Lynn Miggins	260 Burns Road, Suite 100	Elyria, OH 44035	440-365-4730	migginsl@ksassociates.com	<i>JLM</i>
ODNR Division of Wildlife	Heather Elmer	2514 Cleveland Road East	Huron, OH 44839	419-433-4601	heather.elmer@dnr.state.oh.us	
Vermilion Township	Richard D. Simon	1907 State Rd.	Vermilion, OH 44089	440-967-6841	rdsimon@vermiliontownship.com	
Vermilion Township Trustee	Charles Trinter	1907 State Rd.	Vermilion, OH 44089	440-967-3719	Trinterct@centurytel.net	CTT



## Erie and Lorain County, Ohio Discovery Meeting Sign-In Sheet

August 1, 2012

Please sign in and confirm your contact information, making changes below as needed.

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
City of Avon Lake	Joe Reitz	150 Avon Belden Rd	Avon Lake 44012	440-930-4101	jreitz@avonlake.org	JRR
VERMILION TOWNSHIP	Doc Simon	1901 STATE RD.	Vermilion 44089	440-967-6841	rdsimon@vermiliontownship.com	DS
FEMA	Mike Hancock	536 S. Clark St	Chicago, IL 60605	312-408-5366	michael.hancock@fema.dhs.gov	MH
RAMPP	Amelia Vincent	12420 Milestone Dr. Suite 150	German town, MD 20876	301-820-3186	amelia.vincent@urs.com	AV
RAMPP	Taylor Asher	12420 Milestone Center Dr, Suite 150	German town MD 20876	3018203474	taylor.asher@urs.com	TA
ERPC <del>CITY OF</del>	Steve Roggiact	2900 COLUMBUS AVE.	SANDUSKY, OHIO 44870	419-627-6671	Steve.Roggiact@eriecountyohio.gov	SR
Erie Co EMA	Tim Donovick	2900 Columbus Sandusky OH	Sandusky OH 44870	419-627-7617	TDonovick@eriecountyohio.gov	TD
<del>ODNR</del> ODNR	Katherine Steakle	2045 Morse Rd	Columbus OH	614-265-6709	Katherine.Steakle@dnr.state.oh.us	KS
ODNR	Ben Kelley	" "	OH "	614-2656705		

**Erie and Lorain County, Ohio Discovery Meeting Sign-In Sheet**
**August 1, 2012**

Please sign in and confirm your contact information, making changes below as needed.

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
OHIO EMA	SIGMON JOSH	2855 W PUBLIN GRANVILLE	OH COLUMBUS	614 799 3531	JSIGMON@DPS.STATE.OH.OH	JS
Ohio EMA	Steve Ferryman	11	11	cell 799- 3537	Soferryman@dps.state, OH.OH.	SF
RAMPP	Ann Terranova	430 National Business Parkway Suite 400	Annapolis Junction, MD 20701	443-737- 1300	ann.terranova@urs.com	

# Attachment D-4

## Meeting Summary

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**Great Lakes Coastal Flood Study ([www.greatlakescoast.org](http://www.greatlakescoast.org))**  
**Erie and Lorain County, OH – Lake Erie Discovery Meeting**  
**August 1, 2012 10 am to Noon**  
**Ritter Public Library**  
**5680 Liberty Ave., Vermilion, OH 44089**

### **Discussion Highlights**

- 1. Introductions and Welcome (see attached sign-in sheet)**
- 2. Purpose and Intent of Today's Meeting (see attached slides)**
- 3. Coastal Mapping and Flood Risk Topics (see attached slides)**
- 4. NFIP Compliance (see attached slides)**
  - Ms. Lynn Miggins with the City of Vermilion asked why there are currently no VE Zones (areas expected to be affected by wave heights or runup depth at or greater than 3 feet) mapped in Ohio.
    - Answer: Mr. Mike Hanke with FEMA Region V responded that the flood zones for the coastal areas are currently based on the 1988 Open Coast Report which was based on gage data. The new basin-wide modeling performed as part of the Great Lakes Coastal Flood Study will include the affects of wave height or runup on top of the storm surge. The coastal Flood Insurance Rate Map panels will be updated with this data.
- 5. Interactive Session A: Discuss Local Coastal Areas of Concern Using the Discovery Map**
  - Ms. Miggins said that the shoreline in the City of Vermilion consists of shale to a depth of 6 feet and has cliffs 20 to 30 feet high. There are not many public properties along the shoreline. Ice jams occur near the breakwater at the Vermilion Lagoons, and there is a history of homes flooding in the lagoon area. The City has more shoreline erosion issues than flooding. The City is concerned with protecting the storm/sewer outfalls on Lake Erie from erosion. The City obtains permits from the Ohio Department of Natural Resources and US Army Corps of Engineers to protect the storm/sewer outfalls from erosion.
  - Mr. Charles Trinter with Vermilion Township said that they have more erosion issues than flooding. There were erosion problems at Sherod Park during the 1970s and 1980s.
- 6. Hazard Mitigation (see attached slides)**
- 7. Interactive Session B: Mitigation Action Opportunities**
- 8. Close.** The Lake Erie Discovery meeting was adjourned at approximately 12 pm.



FEMA



These notes are an interpretation of discussions held. Please provide any additions or corrections to the originator within 5 days of the date signed; otherwise they will be assumed correct as written.

Prepared by: Amelia Vincent and Ann Terranova

Date: September 19, 2012

cc: Distribution/Participants

Attachments:

Discovery Meeting Sign-in Sheet

Slide Presentation

Attachment D-5  
Meeting Evaluation Forms

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**Erie and Lorain County, OH Discovery Meeting Evaluation Form**

**August 1, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

**As a Result of this Meeting:**

I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_

I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_

I have a better understanding of my organization's role in the project and future activities.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_

I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

## Meeting Logistics:

The location of the meeting was convenient for me.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comments: _____					

The time of the meeting was convenient for me.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comments: _____					

The information presented was easy to understand.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comments: _____					

I preferred this meeting's format to others I've attended.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comments: _____					

The handouts provided at this meeting were helpful (if applicable).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comments: _____					

Your contact information (Optional):

Name: <i>Tim Donouch</i>		
Organization: <i>Erie Co EMA</i>		
City: <i>Sandusky</i>	County: <i>Erie</i>	State: <i>OH</i>
E-mail: <i>TDonouch@eriecounty.oh.gov</i>		Phone: <i>419-627-7617</i>

Attachment D-6  
Mitigation Action Form

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# Mitigation Action Form



## Purpose and Help

This form is meant to assist the collection of Mitigation Actions.

Online Mitigation Action Collection:

<http://fema.starr-team.com>

State Hazard Mitigation Officers Directory:

<http://www.fema.gov/about/contact/shmo.shtm>

## Your Information

Please enter the primary contact associated with this Mitigation Action.

### 1. Full Name *Required*

Please provide your full name, e.g.: Michael Smith

---

### 2. Email Address *Required*

Please provide your email address, e.g.: example@example.com

---

### 3. Your Title and Organization *Required*

Please provide your relevant title and organization as it applies to this form, e.g.: Floodplain Administrator for City of Boulder, Colorado.

---

## Mitigation Action Information

Below please enter information as it directly applies to the mitigation action you are discussing.

### 4. Jurisdiction Name(s) *Required*

Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g.: City of Boulder, CO

---

### 5. Mitigation Activity Name *Required*

The Mitigation Activity Name should be concise yet descriptive. For example, flood acquisition projects along south side of Main St.

---

### 6. Mitigation Action Status *Required*

Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, a 'Scoped' status suggests that the action has been scoped or funded with intentions to move to 'In Progress' and advance toward 'Completion'.

Identified     Scoped     In Progress     Completed

### 7. Mitigation Action Source *Required*

Please check the appropriate box. The Mitigation Action Source defines the source/process that identified or refined the action or changing its status.

Risk MAP Process                       Capital Improvement Plan  
 Local Mitigation Plan                 Comprehensive Plan  
 HMA Database                             Other \_\_\_\_\_

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.

---

### 8. Mitigation Plan Name

If known, please provide existing plan name. The Mitigation Plan Name refers to the local Hazard Mitigation Plan adopted by this jurisdiction(s). For example, Winnebago County, IL Multi-Jurisdictional Hazard Mitigation Plan.

---



← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

### 9. Hazard Type *Required*

Select the main type of hazard affected by this Mitigation Action. Check/circle only one.

- |  |                                       |                                       |
|--|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Coastal Erosion   | <input type="checkbox"/> Hurricane    | <input type="checkbox"/> Wildfire     |
| <input type="checkbox"/> Dam/Levee Failure | <input type="checkbox"/> Landslide    | <input type="checkbox"/> Wind         |
| <input type="checkbox"/> Drought           | <input type="checkbox"/> Thunderstorm | <input type="checkbox"/> Winter Storm |
| <input type="checkbox"/> Earthquake        | <input type="checkbox"/> Tornado      | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> Flood             | <input type="checkbox"/> Tsunami      |                                       |

### 10. Mitigation Category *Required*

Select the type of Mitigation effort being undertaken. Check/circle only one.

- |   |  |
|---|--|
| <input type="checkbox"/> Building Code                | <input type="checkbox"/> Management Best Practices |
| <input type="checkbox"/> Community Identified Program | <input type="checkbox"/> Mitigation Project        |
| <input type="checkbox"/> Land Use Ordinance           | <input type="checkbox"/> Other _____               |

### 11. Category Type and Subtype *Required if Applicable. See Part B: Reference Sheet*

Please see Part B, Reference Sheet for applicable Category types and subtypes. Thank you for your patience in filling out this form. More complete and accurate data helps FEMA be more efficient with time and dollars.

Type: \_\_\_\_\_ Subtype: \_\_\_\_\_

### 12. Mitigation Action Commitment *Required*

Please indicate the level of commitment associated with this Mitigation Action. Check/circle only one. The Mitigation Commitment seeks to clarify if the action is a new activity for the community as opposed to maintaining or strengthening something the community is already supporting. For example, a community may seek to "Strengthen Existing" flood ordinances by adopting higher freeboard standards.

- Add New
- Strengthen Existing
- Maintain Existing

### 13. Responsible Agency *Required*

Please indicate the Agency that will be responsible for this Mitigation Action. Check/circle only one.

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> Building Code                         | <input type="checkbox"/> Planning     |
| <input type="checkbox"/> Community Development                 | <input type="checkbox"/> Public Works |
| <input type="checkbox"/> Emergency Management                  | <input type="checkbox"/> State DOT    |
| <input type="checkbox"/> First Responders (Fire, Police, etc.) | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> National Guard                        |                                       |

### 14. Estimated Project Span

Enter the estimated start and completion of the project. Please use the mm/dd/yyyy format.

Start: \_\_\_\_\_ Completion: \_\_\_\_\_

### 15. Estimated Cost

Enter the estimated cost for the project. The Estimated Cost for the mitigation activity does not have to be precise. Rather it could be used for general planning or budgeting purposes. Results may also allow officials associate actions with Hazard Mitigation Assistance resources where/when available.

\$ \_\_\_\_\_

### 16. Funding Source *Required*

Please indicate the expected funding source for the project. Check/circle only one.

- |   |   |
|---|---|
| <input type="checkbox"/> Community      | <input type="checkbox"/> State                      |
| <input type="checkbox"/> County         | <input type="checkbox"/> Other Federal Agency _____ |
| <input type="checkbox"/> FEMA           | <input type="checkbox"/> Other _____                |
| <input type="checkbox"/> Private        |   |
| <input type="checkbox"/> Property Owner |   |

### 17. Funding Source Type *Required if Applicable. See Part B: Reference Sheet*

Please see Part B, Reference Sheet for applicable funding types.

\_\_\_\_\_

### 18. Additional Details

If you would like to enter additional information please fill in the space below.



← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

# Mitigation Action Form



## Part B : Reference Sheet

### Category Types and SubTypes

Use for answering Question 11.

#### Land Use

- Coastal Zone Management
- Conduct Safe Growth
- Floodplain Management
- Open Space Preservation
- Stormwater Management
- Subdivision Ordinance
- Zoning
- Other

#### Building Code

- Enforcement
- International Building Code
  - 2009
  - 2012
  - 2015
  - 2018
  - Other
- International Residential Code
  - 2009
  - 2012
  - 2015
  - 2018
  - Other
- Local or Enhanced Building Code
- Post Disaster Code Enforcement
- Other

#### Management Best Practices

- Integrate Natural Hazards into Planning Mechanisms
- Other

#### Mitigation Project

- Acquisition
- Elevation
  - Structure
  - Utilities
  - Other
- Flood Risk Management
  - Bridge
  - Culvert
  - Dams
  - Debris
  - Drainage Improvements
  - Jetties
  - Levees
  - Removal
  - Revetments
  - Seawalls
  - Other
- Forest or Vegetation Management
- Natural Systems Restoration
  - Beach
  - Dune Rehabilitation
  - Nourishment
  - Wetlands
  - Other
- Soil Stabilization or Erosion Control
- Retrofit
  - Non-Structural
  - Structural
  - Other
- Safe Room Construction
- Underground Utilities
- Other

#### Community Identified Program

- CRS
- Firewise
- NFIP
- StormReady
- Other



← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

## **Funding Types**

Use for answering Question 17.

### **Other Community**

- **Bonds**
- **General Funds**
- **Tax Levies**
- **Other**

### **FEMA**

- **FMA-Flood Mitigation Assistance**
- **HMGP-Hazard Mitigation Grant Program**
- **PA-Public Assistance**
- **RFC-Repetitive Flood Claims**
- **SRL-Severe Repetitive Loss**
- **Other**

### **Other Federal Agency**

- **BIA**
- **DOT**
- **EPA**
- **HUD**
- **NOAA**
- **USGS**
- **Other**

### **Private**

### **Property Owner**

### **State**

### **Other**

Attachment D-7  
Community Risk MAP Questionnaire  
Forms

---





## Community Risk MAP Questionnaire

As a partner, local participation is a primary component of identifying potential Risk MAP (Mapping, Assessment, and Planning) needs. The questions below ask for specific information regarding your community to assist in the development of Risk MAP projects. Please answer as thorough as possible and provide your notes at the Discovery Meeting.

COMMUNITY: Avon Lake CONTACT: Joe Reitz

Does your community have recent topographic data (e.g., LiDAR, DEM, etc.)?

No

Do you have local parcel or structural footprint data?

From Lorain County Auditor

Have there been any additional flood studies performed recently, that are not incorporated in the current FIRM?

Currently working on revision to portion of Powdermaker Ditch floodplain based on culvert replacement.

Are there areas of flooding within your community that are not identified on current FIRM? If so, what and where is the flooding source?

No

Has there been recent development causing change to flooding within your community (e.g., roads, filling, structural, etc.)?

Nothing other than culvert mentioned above.

Are there repetitively flooded properties within your community? If so, where?

None that city knows of other than sanitary surcharge areas.

Are there areas for potential mitigation projects in your community (e.g., severely flooded areas, properties, etc.)? If so, what and where?

No

Are there levees or other coastal flood control structures within your community?

No

Are there plans in place for flood control projects (e.g., levees, groins, breakwaters, artificial headlands, etc.)? If so, what and where?

No

Are there any other issues that need to be addressed regarding coastal flooding?

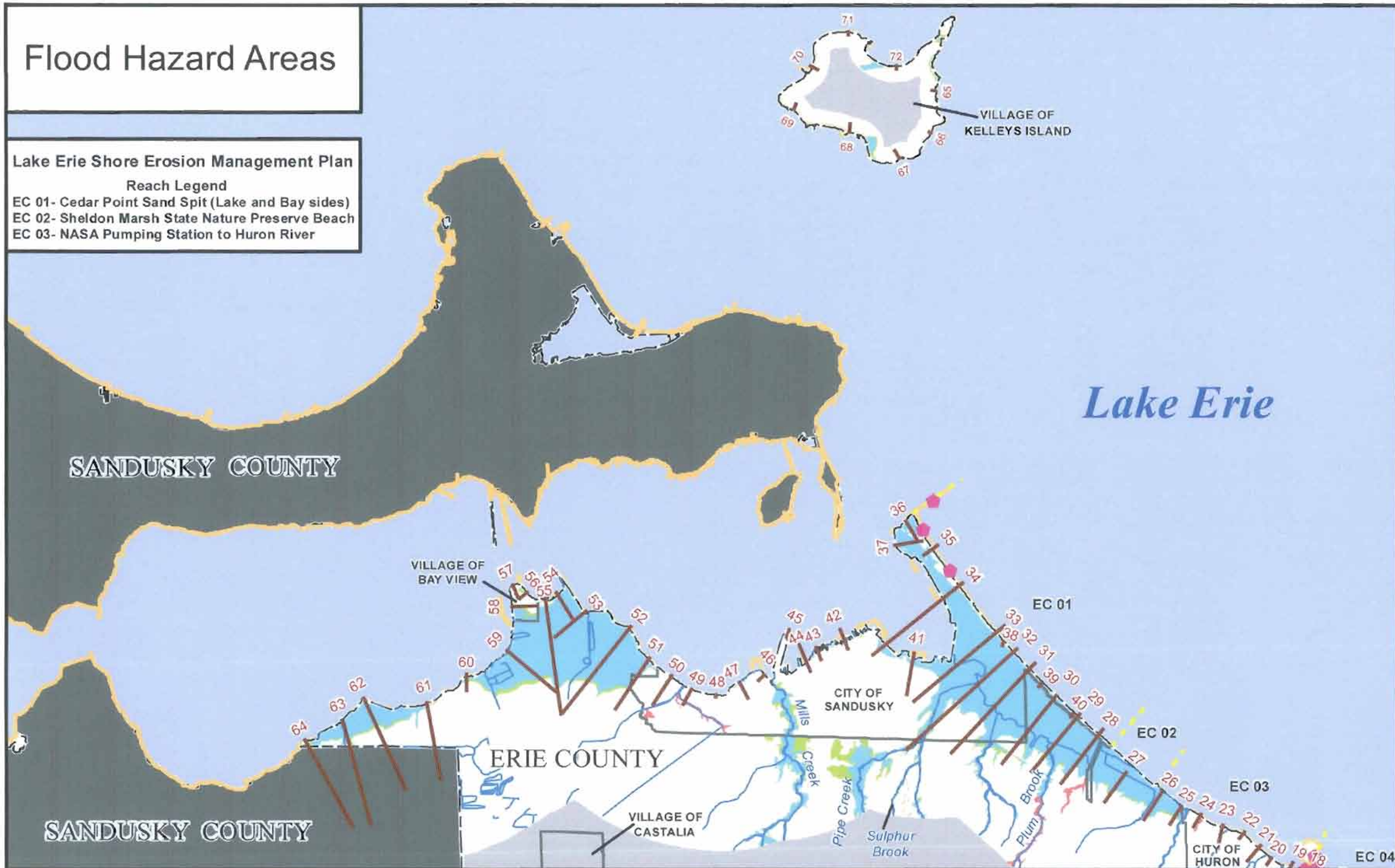
Who has review and oversight on submerged lands and improvements within such boundaries.

Attachment D-8  
Discovery Map Comments from  
Meeting

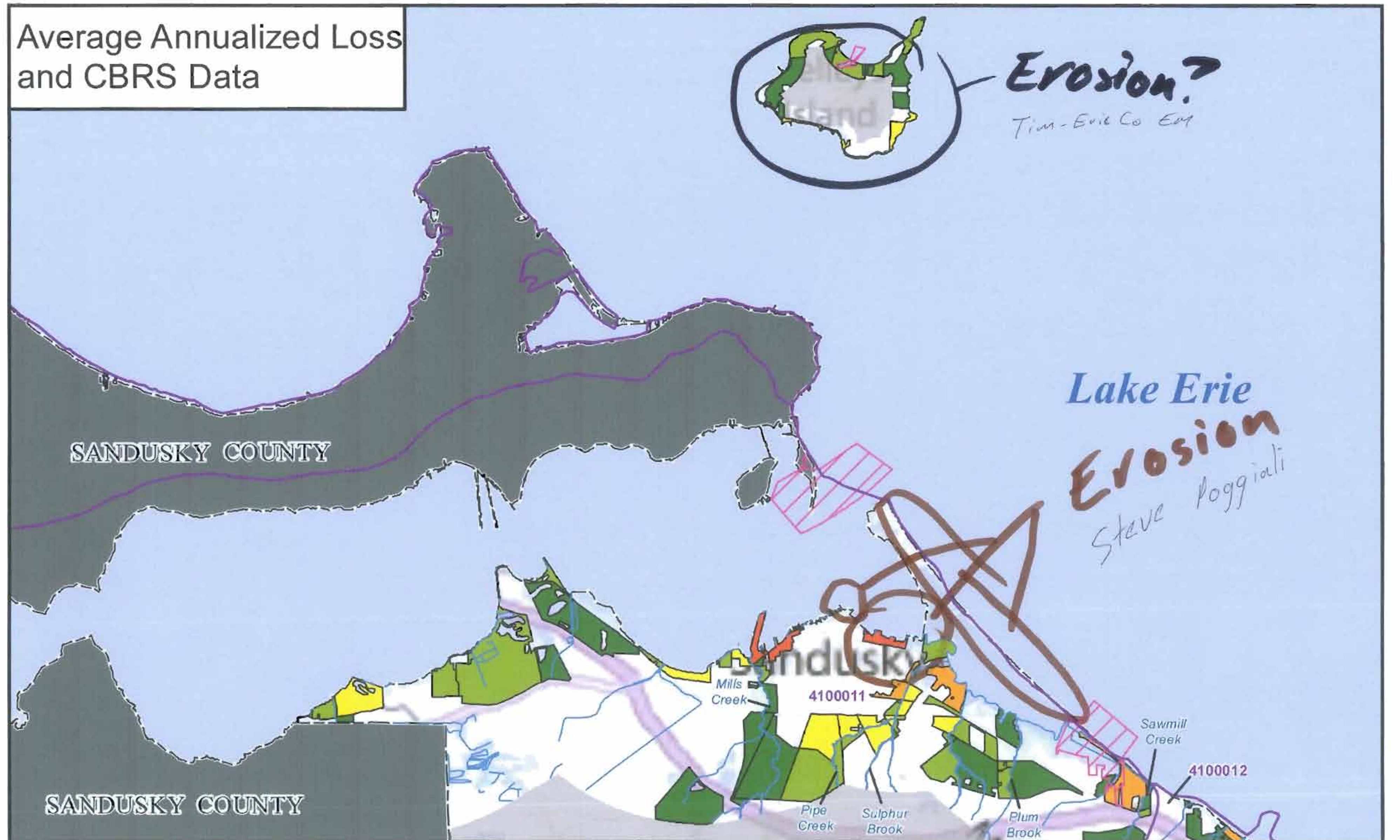
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### Flood Hazard Areas

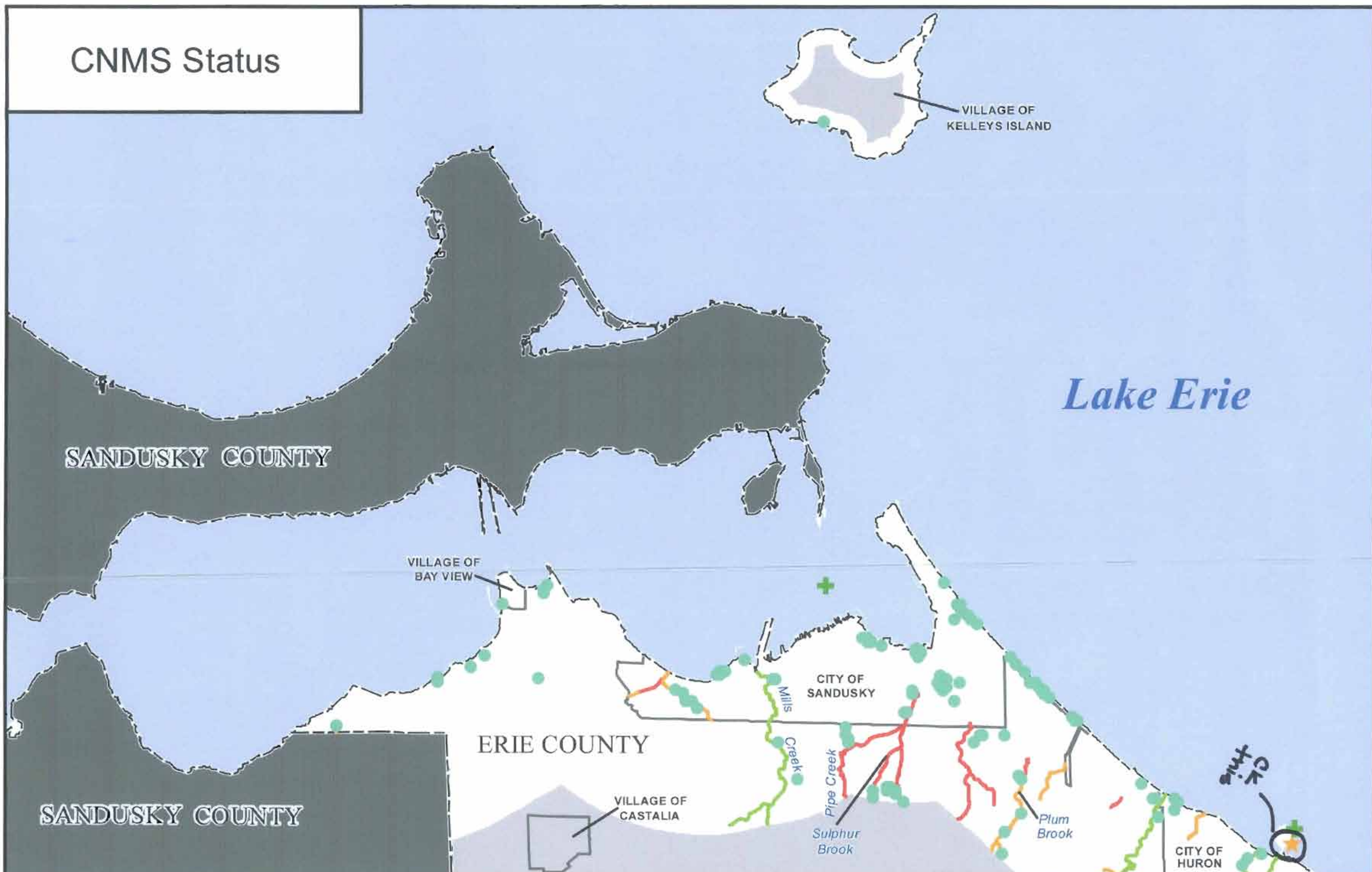
Lake Erie Shore Erosion Management Plan  
 Reach Legend  
 EC 01- Cedar Point Sand Spit (Lake and Bay sides)  
 EC 02- Sheldon Marsh State Nature Preserve Beach  
 EC 03- NASA Pumping Station to Huron River



### Average Annualized Loss and CBRS Data



### CNMS Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Erie County	236	191	0	44	1,555,989
Bay View, Village of	4	4	0	0	37,843
Berlin Heights, Village of	N/A	N/A	N/A	N/A	N/A
Castalia, Village of	1	0	0	1	.00
Huron, City of	128	105	0	23	732,297
Kelley's Island, Village of	N/A	N/A	N/A	N/A	N/A
Sandusky, City of	302	225	0	77	960,959
Vermilion, City of	360	323	0	37	3,834,830

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Erie	DR	Tornado	Tornadoes, Severe Storms, and Flooding
OH	11/24/1972	Erie	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Erie	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Erie	DR	Severe Storm	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/19/2004	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/13/2005	Erie	DR	Severe Storm	Severe Storms, Tornadoes, Straight Line Winds, & Floods

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Erie County - Countywide All Natural Hazards Mitigation Plan	02/07/2006	01/28/2013	Construct elevated or alternative roads that are unaffected by flooding to eliminated repairs and replacements due to deterioration caused by repeated flooding



### MAP SYMBOLOGY

<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>● LOMCs</li> <li>★ Wave Gages</li> <li>— Transects</li> <li>— Lake Erie Shoreline</li> <li>□ HUC 8</li> <li>□ CBRS</li> <li>— Streams</li> <li>□ Discovery Area</li> <li>□ Surrounding Counties</li> <li>□ County Boundary</li> <li>□ Municipal Boundaries</li> </ul>	<ul style="list-style-type: none"> <li>★ Ports</li> <li>● Coastal Structures</li> <li>--- LESEMP</li> </ul> <p><b>SPECIAL FLOOD HAZARD AREAS</b></p> <ul style="list-style-type: none"> <li>■ A</li> <li>■ AE</li> <li>■ 0.2 PCT ANNUAL CHANCE FLOOD</li> </ul>	<p><b>ERIE COUNTY AAL DATA</b>                  Total Average Annualized Losses per Census Block</p> <ul style="list-style-type: none"> <li>■ \$1 - \$2,500</li> <li>■ \$2,501 - \$100,000</li> <li>■ \$100,001 - \$250,000</li> <li>■ \$250,001 - \$750,000</li> <li>■ \$750,001 - \$2,000,000</li> </ul>	<p><b>CNMS VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li>— UNVERIFIED</li> <li>— UNKNOWN</li> <li>— VALID</li> </ul>
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### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM Discovery Map

### LAKE ERIE COASTAL STUDY

Erie County, Ohio (Map 1 of 2)

Bay View, Village of  
 Berlin Heights, Village of  
 Castalia, Village of  
 Erie County  
 Huron, City of  
 Kelley's Island, Village of  
 Sandusky, City of  
 Vermilion, City of

# DRAFT MAP



Discovery Meeting Date:  
August 1, 2012

# Flood Hazard Areas

## Lake Erie Shore Erosion Management Plan

- Reach Legend**  
 EC 01- Cedar Point Sand Spit (Lake and Bay sides)  
 EC 02- Sheldon Marsh State Nature Preserve Beach  
 EC 03- NASA Pumping Station to Huron River  
 EC 04- Huron River to Old Woman Creek  
 EC 05- Old Woman Creek to Joppa Road  
 EC 06- Joppa Road to Vermilion River



# Average Annualized Loss and CBRs Data



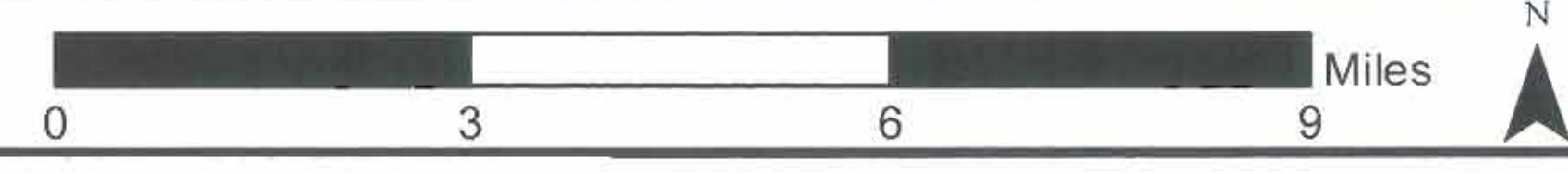
# CNMS Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Erie County	236	191	0	44	1,576,794
Bay View, Village of	4	4	0	0	37,843
Berlin Heights, Village of	N/A	N/A	N/A	N/A	N/A
Castalia, Village of	1	0	0	1	.00
Huron, City of	128	105	0	23	732,297
Kelleys Island, Village of	N/A	N/A	N/A	N/A	N/A
Sandusky, City of	302	225	0	77	960,959
Vermilion, City of	360	323	0	37	3,834,830

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Erie	DR	Tornado	Tornadoes, Severe Storms, and Flooding
OH	11/24/1972	Erie	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Erie	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Erie	DR	Severe Storm	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/19/2004	Erie	DR	Severe Storm	Severe Storms & Flooding
OH	09/13/2005	Erie	DR	Severe Storm	Severe Storms, Tornadoes, Straight Line Winds, & Floods

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Erie County - Countywide All Natural Hazards Mitigation Plan	02/07/2006	01/28/2013	Construct elevated or alternative roads that are unaffected by flooding to eliminated repairs and replacements due to deterioration caused by repeated flooding



# MAP SYMBOLOGY

<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>● LOMCs</li> <li>— Transsects</li> <li>— Lake Erie Shoreline</li> <li>□ HUC 8</li> <li>▨ CBRs</li> <li>— Streams</li> <li>□ Discovery Area</li> <li>■ Surrounding Counties</li> <li>■ County Boundary</li> <li>□ Municipal Boundaries</li> </ul>	<ul style="list-style-type: none"> <li>★ Wave Gages</li> <li>⊕ Ports</li> <li>✳ USGS Gages</li> <li>✳ Coastal Structures</li> <li>--- LESEMP</li> </ul> <p><b>SPECIAL FLOOD HAZARD AREAS</b></p> <ul style="list-style-type: none"> <li>■ A</li> <li>■ AE</li> <li>■ 0.2 PCT ANNUAL CHANCE FLOOD</li> </ul>	<p><b>ERIE COUNTY AAL DATA</b> Total Average Annualized Losses per Census Block</p> <ul style="list-style-type: none"> <li>■ \$1 - \$2,500</li> <li>■ \$2,501 - \$100,000</li> <li>■ \$100,001 - \$250,000</li> <li>■ \$250,001 - \$750,000</li> <li>■ \$750,001 - \$2,000,000</li> </ul>	<p><b>CNMS VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li>— UNVERIFIED</li> <li>— UNKNOWN</li> <li>— VALID</li> </ul>
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# COASTAL STUDY LOCATOR



# NATIONAL FLOOD INSURANCE PROGRAM Discovery Map

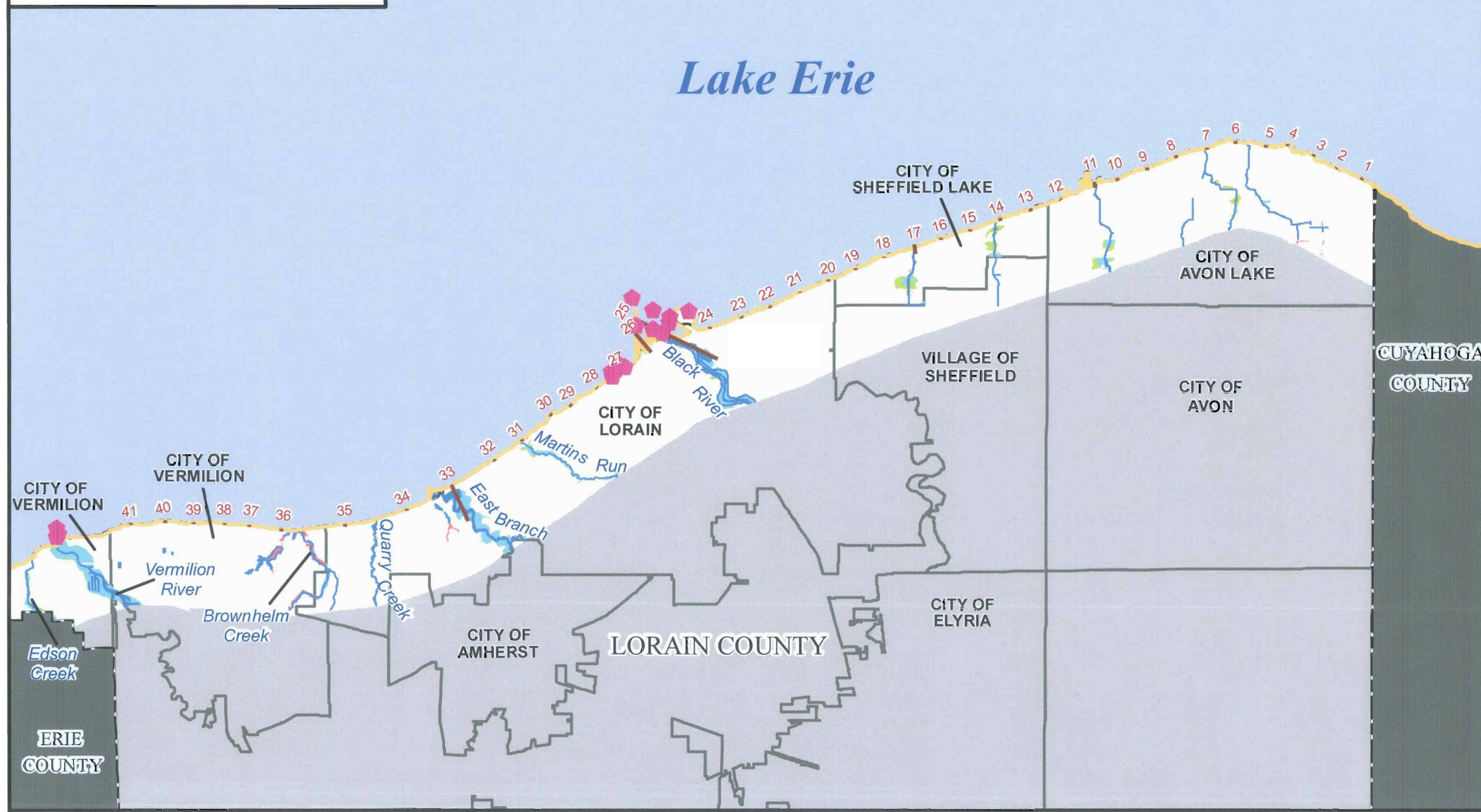
**LAKE ERIE COASTAL STUDY**  
 Erie County, Ohio (Map 2 of 2)

Bay View, Village of Huron, City of  
 Berlin Heights, Village of Kelleys Island, Village of  
 Castalia, Village of Sandusky, City of  
 Erie County Vermilion, City of

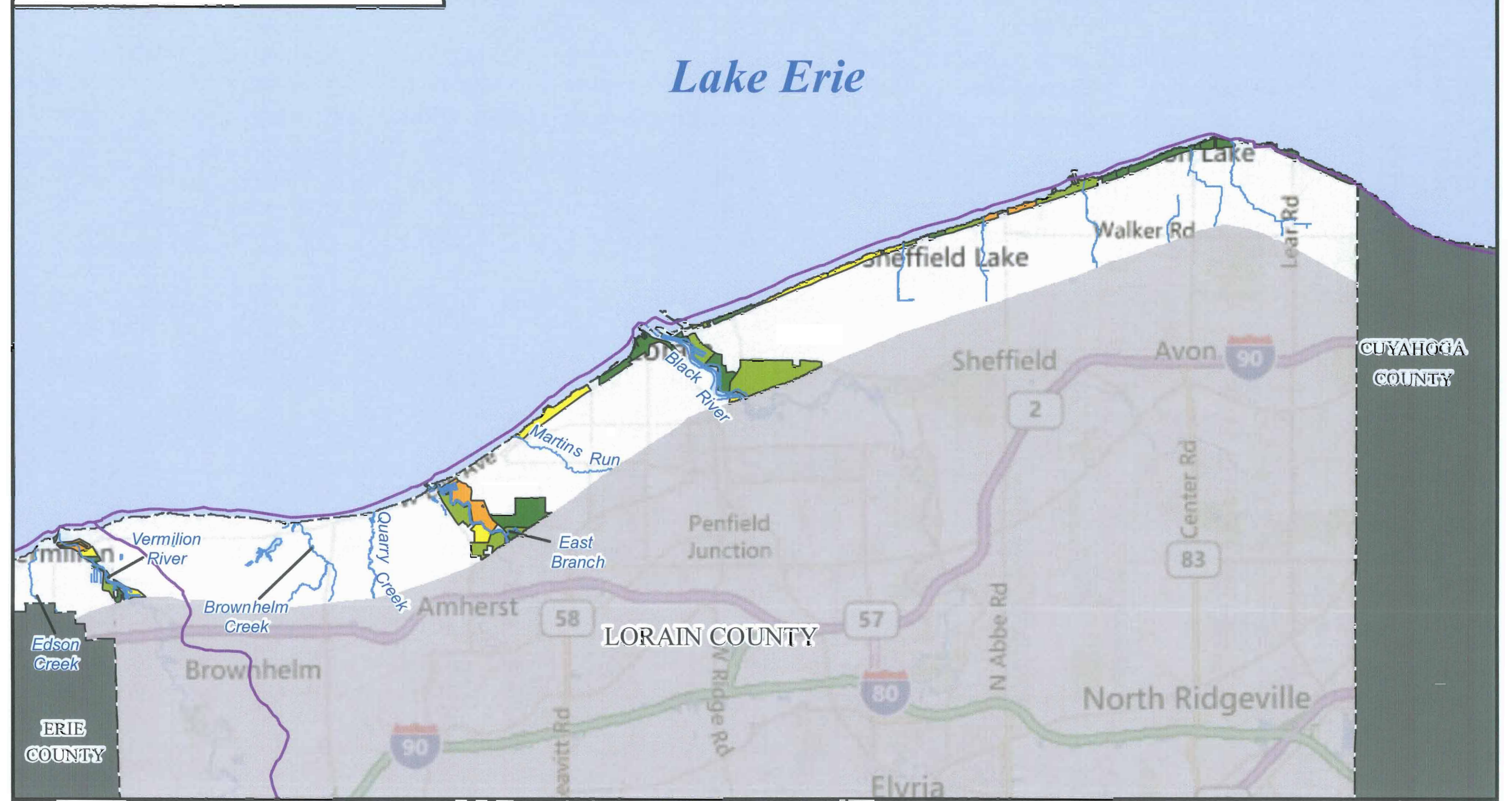
**DRAFT MAP**

Discovery Meeting Date:  
August 1, 2012

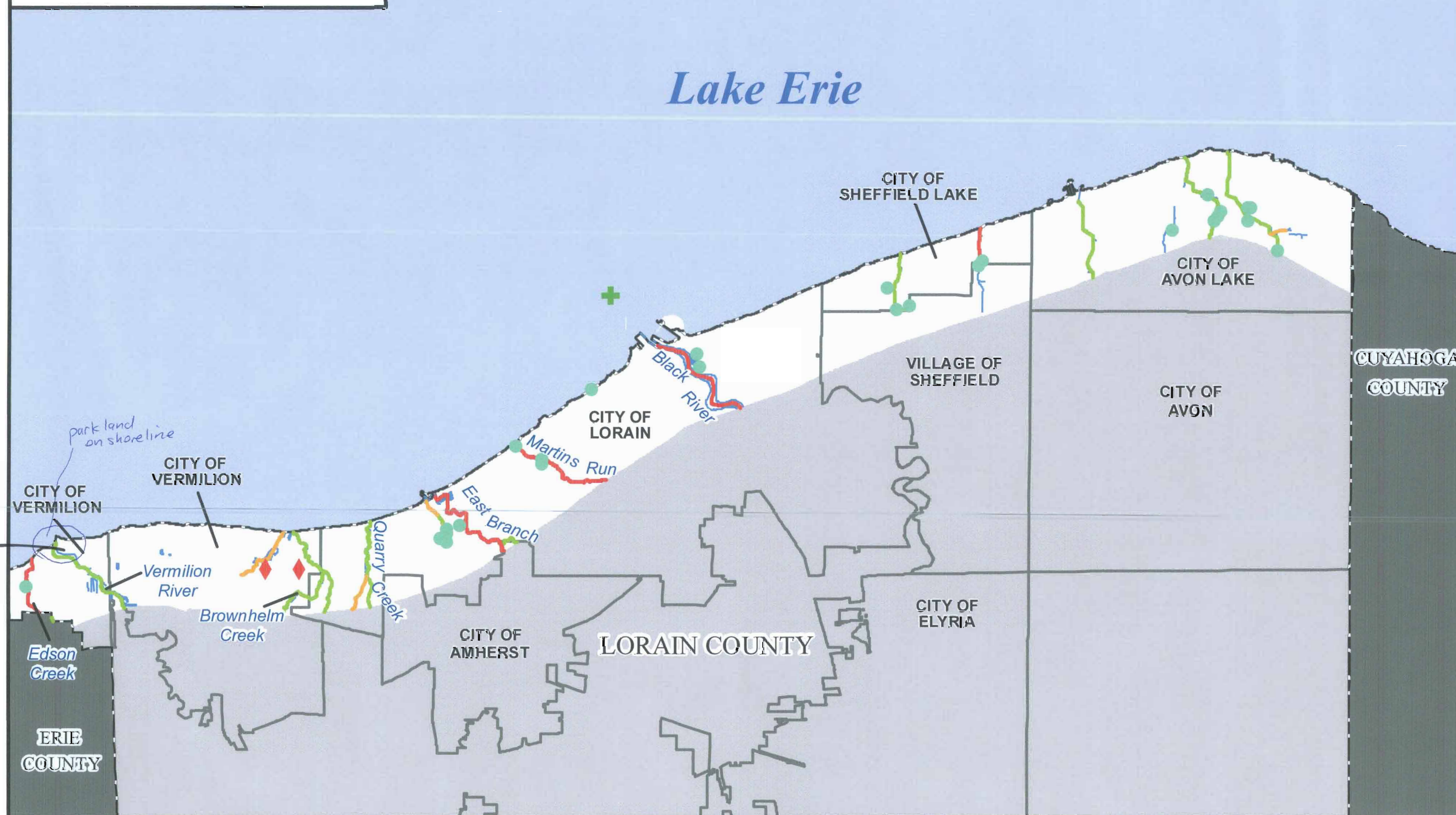
### Flood Hazard Areas



### Average Annualized Loss and CBRS Data



### CNMS Status



Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Lorain County	65	55	0	10	729,364
Amherst, City of	5	5	0	0	21,787
Avon, City of	22	14	0	8	135,441
Avon Lake, City of	8	4	0	4	29,909
Lorain, City of	53	27	0	26	744,636
Sheffield, Village of	3	3	0	0	11,589
Sheffield Lake, City of	14	5	1	8	14,258
Vermilion, City of	360	323	0	37	3,834,830

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/15/1969	Lorain	DR	Tomado	Tomadoes, Severe Storms, & Flooding
OH	07/19/1972	Lorain	DR	Flood	Tropical Storm Agnes
OH	11/24/1972	Lorain	DR	Flood	Severe Storms & Flooding
OH	04/27/1973	Lorain	DR	Flood	Severe Storms & Flooding
OH	06/10/1989	Lorain	DR	Flood	Severe Storms & Flooding
OH	08/04/1992	Lorain	DR	Severe Storms	Severe Storms, Tornadoes, & Flooding
OH	08/25/1995	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	06/03/2004	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	09/19/2004	Lorain	DR	Severe Storms	Severe Storms & Flooding
OH	02/15/2005	Lorain	DR	Severe Storms	Severe Winter Storms, Flooding, and Mudslides

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Lorain County - Countywide All Natural Hazards Mitigation Plan	08/09/2007	01/29/2012	Create a dedicated "radio" channel for decision-makers to utilize for coordination. Seek solutions to the inflow and infiltration with regard to the sanitary systems, such as replacing deteriorating sanitary sewer piping. Coordinate a First Response Team and train them in techniques on search and rescue emergencies when there is fast moving water.



### MAP SYMBOLOGY

LEGEND		LORAIN COUNTY AAL DATA	CNMS VALIDATION STATUS
◆ Dams	◆ Ports	Total Average Annualized Losses per Census Block	UNVERIFIED
● LOMCs	◆ Coastal Structures	\$1 - \$2,500	UNKNOWN
— Transects	SPECIAL FLOOD HAZARD AREAS	\$2,501 - \$100,000	VALID
— Lake Erie Shoreline	A	\$100,001 - \$250,000	
— HUC 8	AE	\$250,001 - \$750,000	
— CBRS	0.2 PCT ANNUAL CHANCE FLOOD	\$750,001 - \$2,000,000	
— Streams			
Discovery Area			
Surrounding Counties			
County Boundary			
Municipal Boundaries			

### COASTAL STUDY LOCATOR



**NATIONAL FLOOD INSURANCE PROGRAM**  
**Discovery Map**  
**LAKE ERIE COASTAL STUDY**  
 Lorain County, Ohio

Amherst, City of  
 Avon, City of  
 Lorain, County of  
 Sheffield Lake, City of  
 Sheffield, Village of  
 Vermilion, City of

**DRAFT MAP**

Discovery Meeting Date:  
 August 1, 2012