

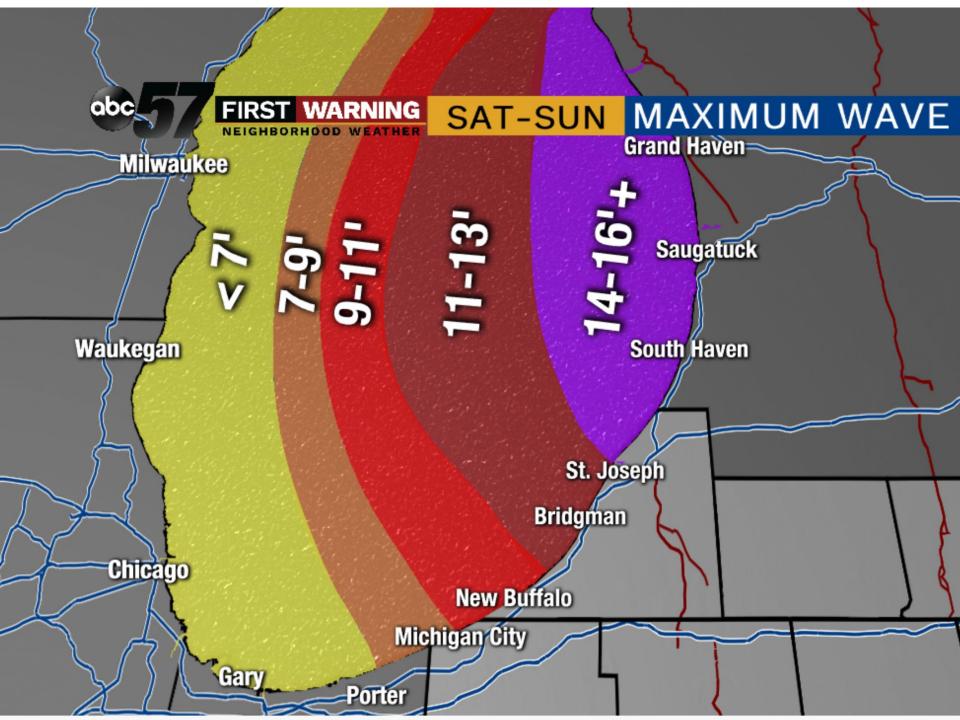
Air & Waste Management
Association and
Environmental Law Section
State Bar of Michigan
Joint Conference
November 17, 2020

Allegan County Erosion
Dana Burd, P.E., CFM, LEED AP

Prein&Newhof





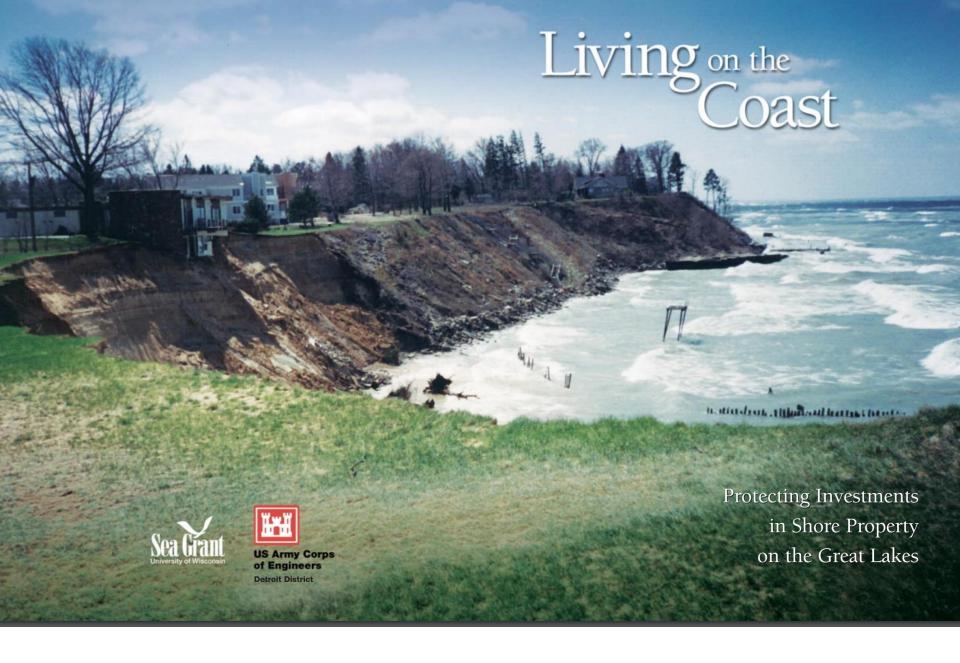




## Saugatuck Project

April 1988

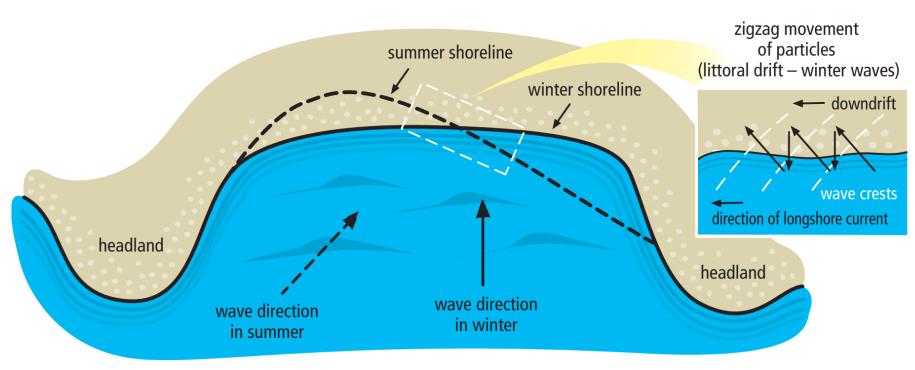
Allegan County, Douglas, Michigan



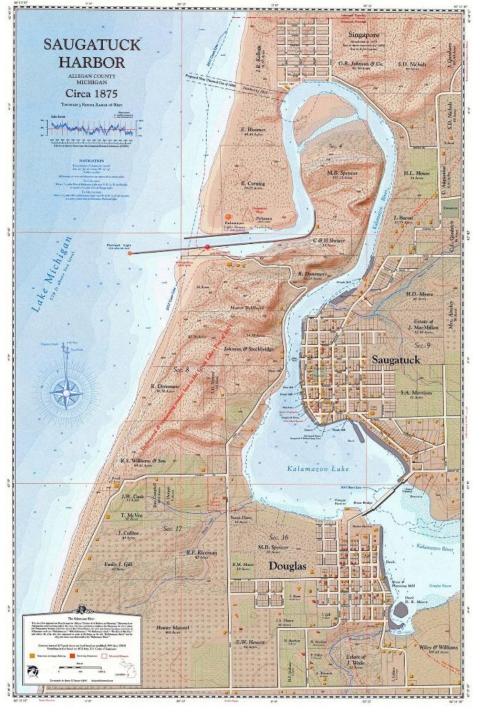
2003 - Mandatory Reading - the Science of Shore Erosion - Lessons

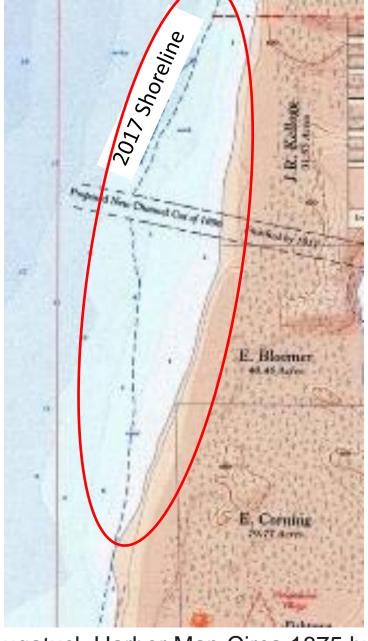
### Lesson 1 – Natural Processes

#### LIVING ON THE COAST



**Littoral Drift and a Shoreline Response to Waves** 



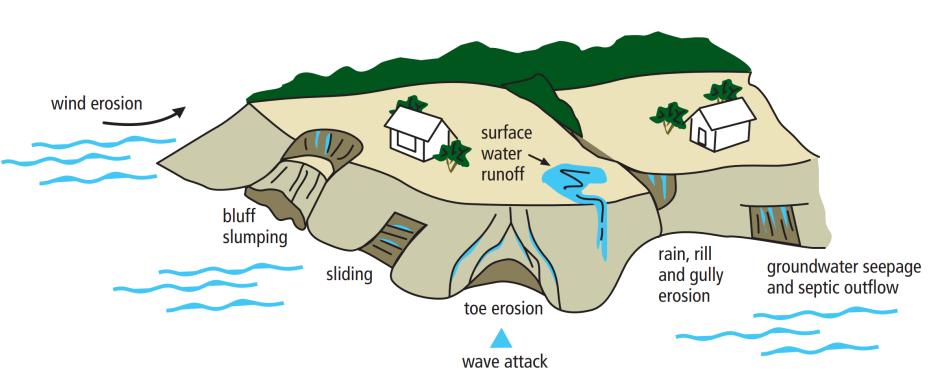


Saugatuck Harbor Map Circa 1875 by Cartographer James T. Fassen



### Lesson 2 – Nature is Relentless

LIVING ON THE COAST



**Causes and Effects of Coastal Erosion** 





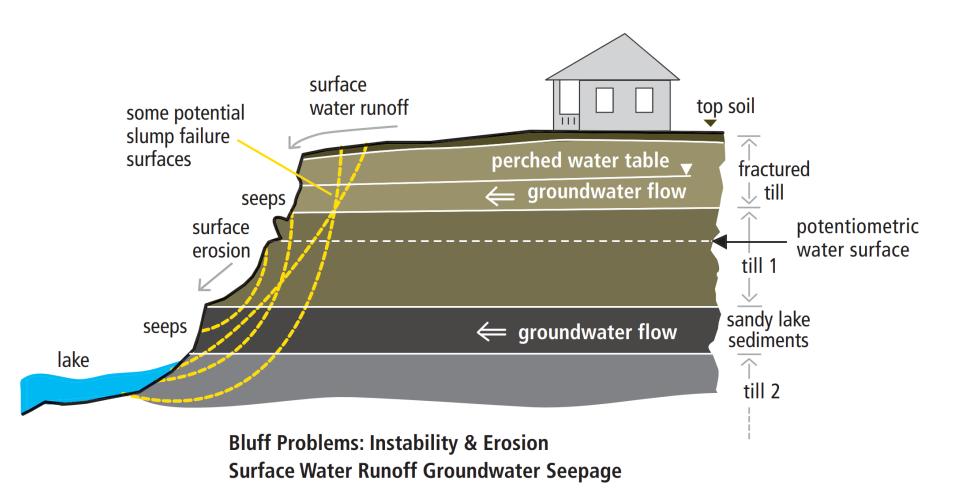






### It's not just the lake level

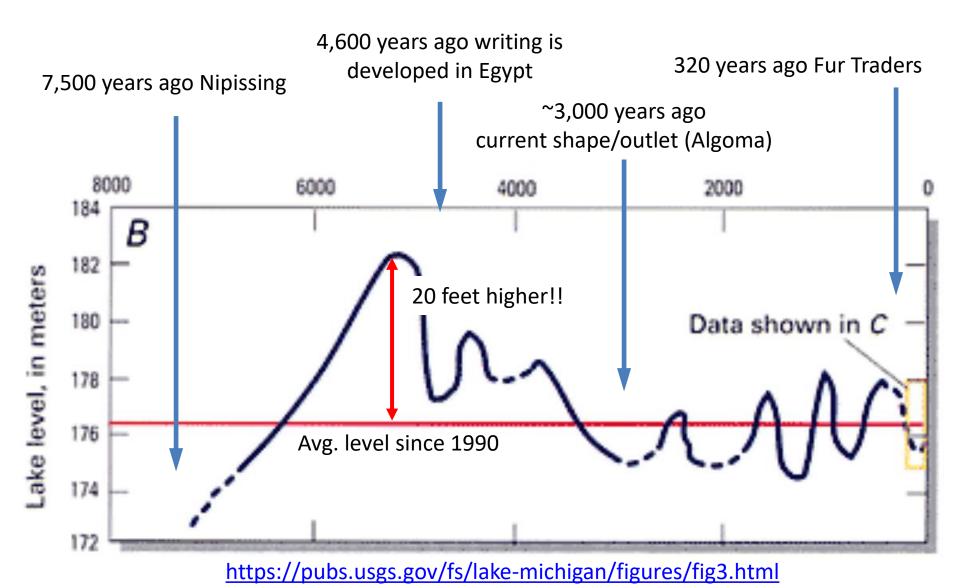
#### LIVING ON THE COAST

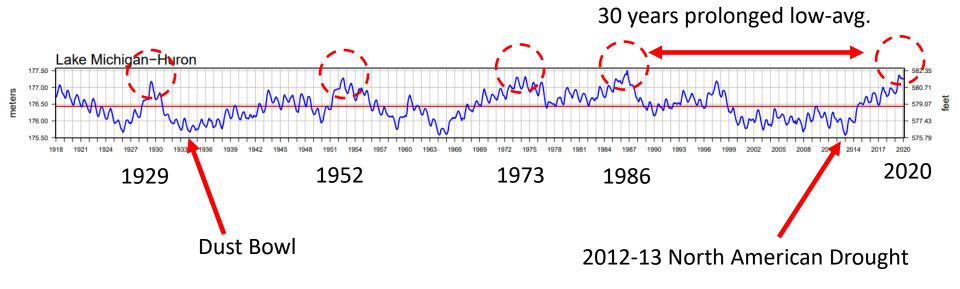




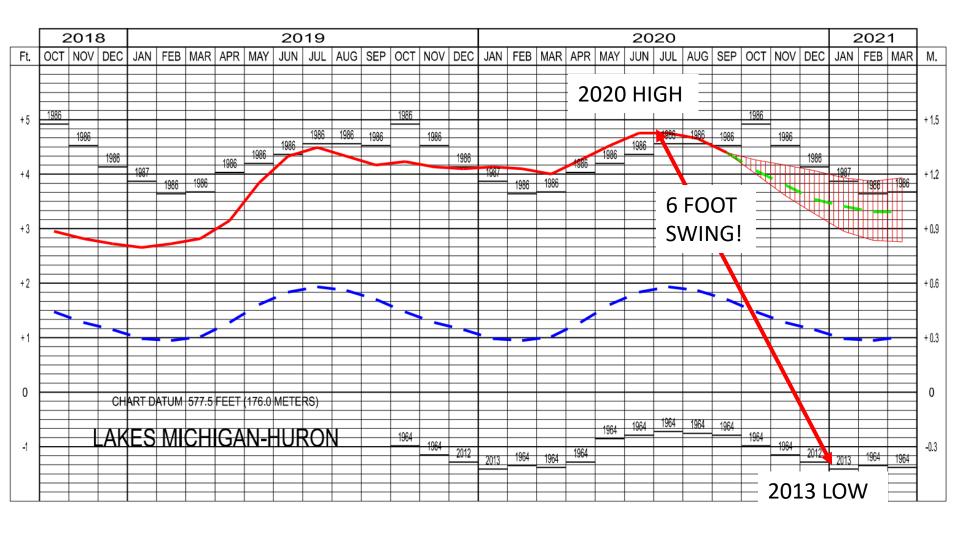


### Lesson 3 – How long have we been dealing with this?





### 2021... What's next?



6 Month Army Corp Projection (Oct 2020)











#### **EMERGENCY MGMT** HOME

Four Phases

Sirens

School Resources

Special Needs

NIMS

R.A.C.E.S.

Citizen Corps

Emergency Mgmt. Advisory Council

LEPC

Local Planning Team

Volunteers

Training and Exercises

Grants

Emergency Resources

Links

Meeting Minutes / Calendar site

**Emergency Management** 3271 122nd Ave. Allegan, MI 49010

Phone: (269) 673-0571 Fax: (269) 673-0566

Email Us



### High Water

The following are resources to help address concerns with high water issues. If you have any questions you can submit them to the Emergency Operations Center (EOC) Public Information Officer (PIO) at eocpio@allegancounty.org. The questions will be combined with the answers in our High Water Q&A document that is listed below under "Resources".

If your property is at risk of soil erosion or flooding please use the following link below and complete the "Self-Reporting Survey"



Edit

#### "Self-Reporting Survey"

Subject Matter Expert - WMU Geology Us S Army Corp of Eng. Flood Tips

Resources	
Туре	Name
-	1980 High Lake Levels Ref. Video I
-2	1980's High Lake Levels Ref. Video II
-	1986 MSP Lakeshore Flyover
<b></b>	2019_Sandbag_Brochure_3-2019
	Army Corp. Great Lakes High Water Info
3	Army Corp. Instructional Sandbagging Video
<b></b>	CAP Section 14 Program
人	Fact Sheet Great Lakes 2020 Declaration Process
人	FAQ Great Lakes NFIP 2020 FINAL
-	International Joint Commission for Great Lakes
灵	QA Fact Sheet Allegan County Emergency Management - 02032020
人	Sandbag Sand Suppliers 2019
人	Stream Bank and Shoreline Protection; Section 14 Program

Joe Bush was tagged.



James M. Storey is with Joe Bush. 6 hrs · 🚱

SHORELINE EROSION HELP NEEDED ASAP- Of Water Resources Commissioner Joe Bush and before MI Senate appropriations committee this need for state action to help local governments erosion crisis along our shorelines. Beach trash and water system threats need immediate atter





CURRENT STATUS & FUTURE PREDICTIONS OF LAKE MICHIGAN LEVELS Deanna Apps, Physical Scientist, USACOE, Detroit District

Greg Weykamp, Edgewater Resources Kyle Alexander, John Bayha & Jerrod Sanders, EGLE

ISSUES TO LOOK FOR IN A PROPERTY & WAYS TO TACKLE PROBLEMS

Logan Williams, Emergency Management, USACOE Brian Bosgraaf, Cottage Homes

Greg Weykamp, Edgewater Resources Kyle Alexander, John Bayha & Jerrod Sanders, EGLE Dr. Ron Chase, Western Michigan University, Emeritus Michigan Geological Survey at WMU

CAN WE EXPECT HELP ON A FEDERAL LEVEL?

Fred Upton, U.S. House of Representatives, Michigan, 6th District

WHAT ARE OUR PRIORITIES?

Kate Hosier, Assistant Manager, City of South Haven

HELP ON A STATE LEVEL?

Mary Whiteford, Michigan House of Representatives, 80th District Beth Griffin, Michigan House of Representatives, 66th District Aric Nesbitt, Michigan Senate, 26th District

HELP ON THE LOCAL LEVEL? Scott Corbin, Allegan County Emergency Manage

LOCAL INFORMATION—MANAGING EXPECTATIONS & SAFETY OF RESIDENTS, BUYERS & SELLERS Scott Corbin, Allegan County Emergency Management Director Sheriff Frank Baker, Allegan County Brian Dissette, Manager, City of South Haven Kate Hosier, Assistant Manager, City of South Haven

#### **Allegan County Emergency Management**

February 21 at 5:34 PM

Today, Allegan County Emergency Management participated in a panel discussion on rising waters and shoreline erosion issues along Lake Michigan hosted by the So... See More





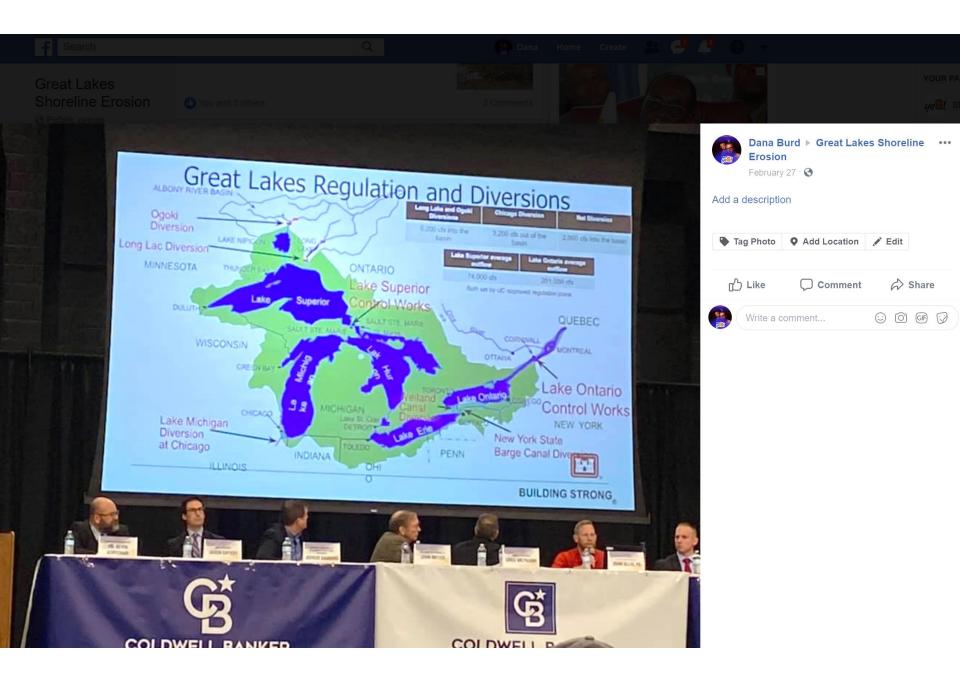




WOODTV.COM

### Upton, Stabenow tour Michigan's lakeshore erosion

The historically high waters of Lake Michigan are drawing lawmakers from...









# Prein&Nev1986 Washout in 2012

FIGURE 3

PREPARED FOR SAUGATUCK TOWNSHIP

PROJECT NUMBER 2150060







Thank you! Questions?

Allegan County Erosion

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