



**US Army Corps  
of Engineers®**

DETROIT DISTRICT

ATTN: CELRE-DE  
477 MICHIGAN AVENUE  
DETROIT MI 48226-2575  
[HTTP://WWW.LRE.USACE.ARMY.MIL/](http://www.lre.usace.army.mil/)

**DATE:** 10/25/2022

**POC:** Elizabeth  
Wilkinson  
(616) 240-7989

## NOTICE TO NAVIGATION INTERESTS

**NOTICE NUMBER:** 201473

**LOCAL NUMBER:** L22-17

**WATERWAY:** ST. JOSEPH HARBOR

**EFFECTIVE:** 10/25/2022 10:43 thru Until Further  
Notice

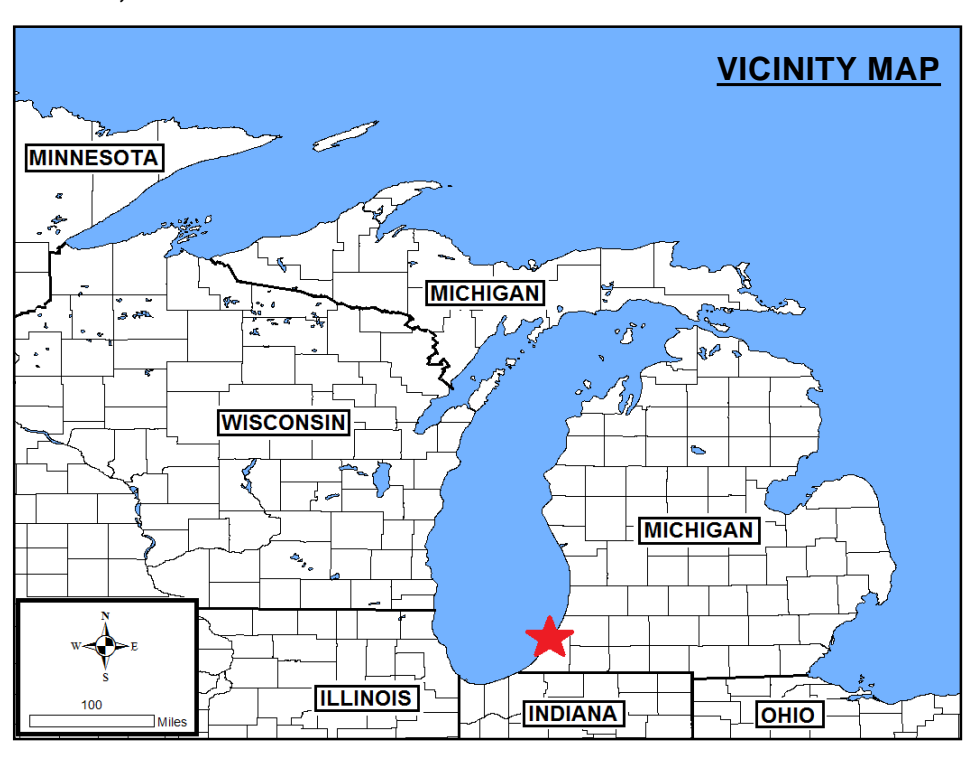
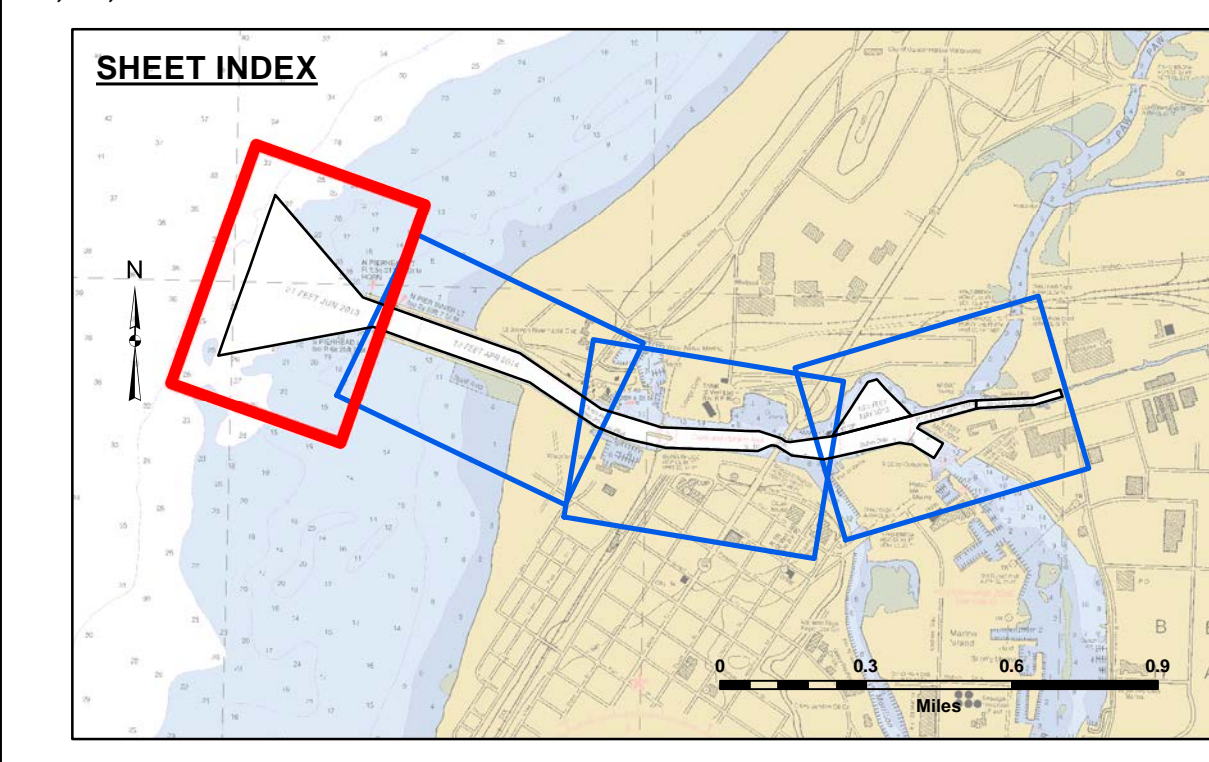
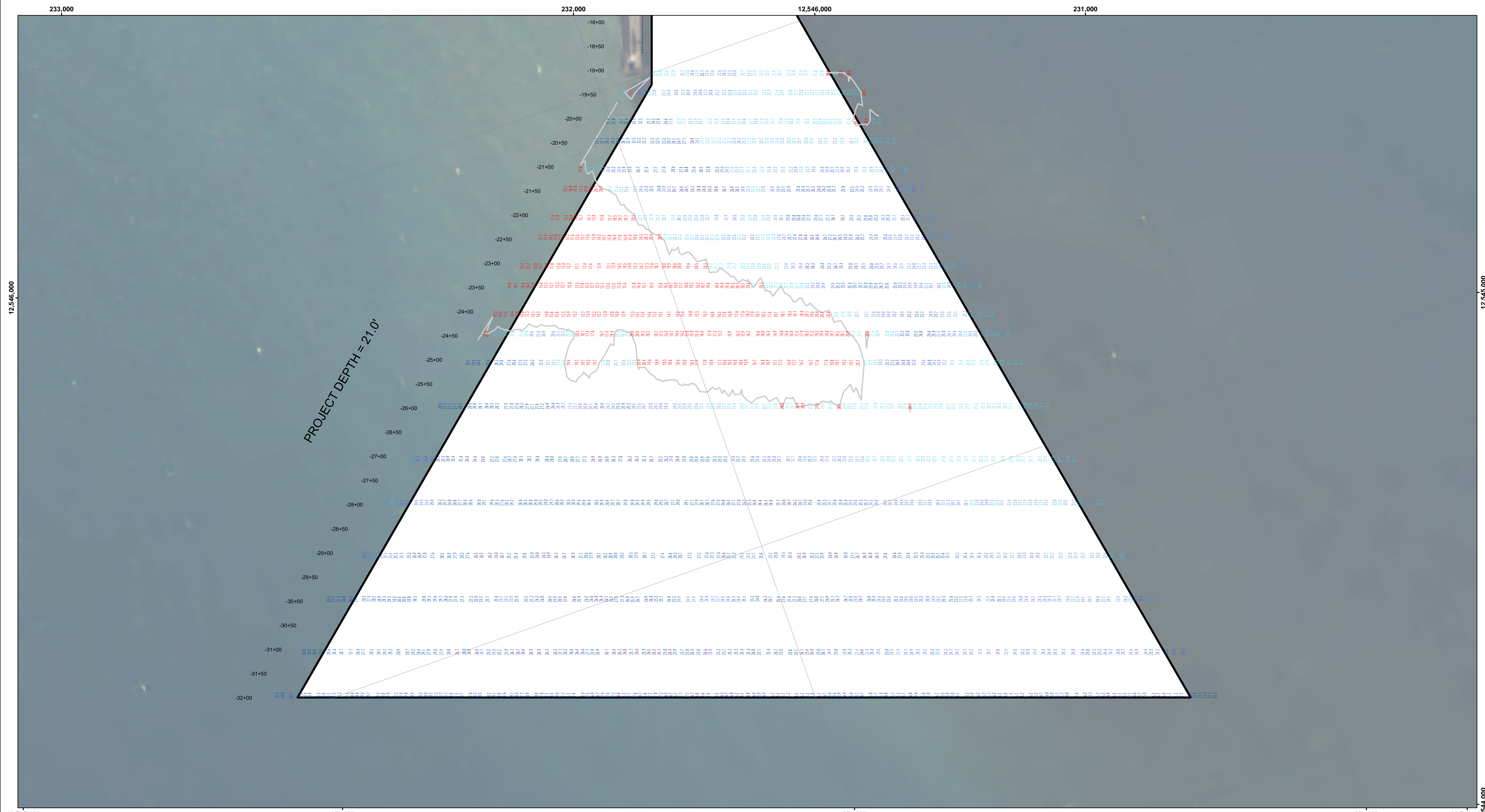
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### **REPORTED SHOALING – ST JOSEPH HARBOR, MI**

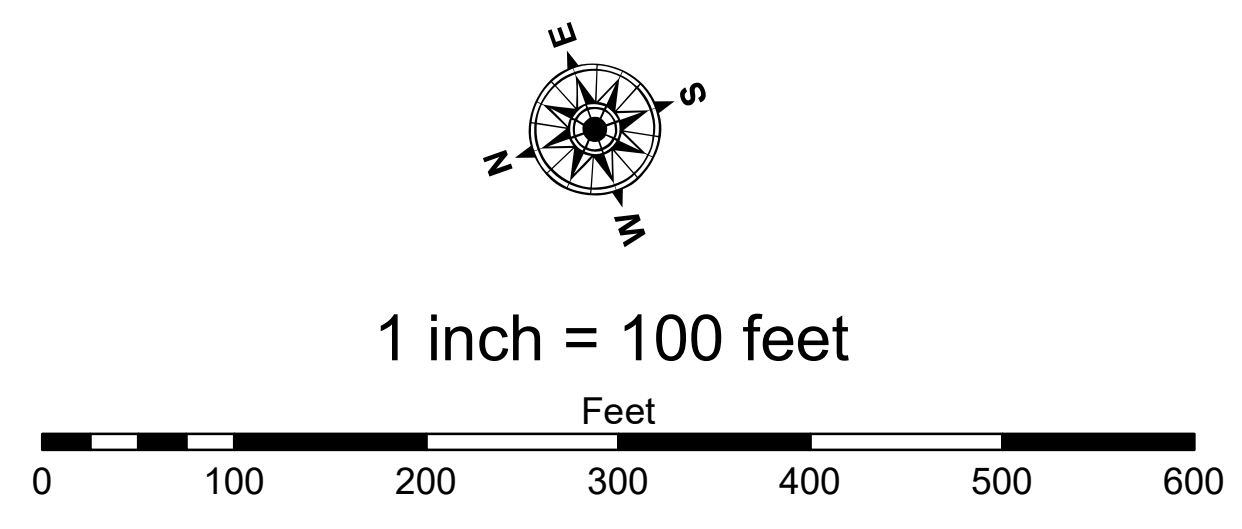
1. Recent project condition surveys at St. Joseph Harbor, MI, indicate shoaling in the navigation channel.
2. Shoaling is present at the entrance of the channel throughout project stationing -25+00 to -22+00 with depths as shallow as 11.1 feet below the International Great Lakes Datum of 1985 (IGLD85), Low Water Datum (LWD) on the North Easterly side of the channel. Project depth for the reach of navigation channel is authorized to 21.0' below IGLD85, LWD.
3. The most recent project condition survey is attached to this notice.
4. Questions regarding this notice may be directed to the Grand Haven Resident Engineer, Ms. Elizabeth Wilkinson at (616)240-7989. Our internet address is: <https://www.lre.usace.army.mil.Missions/Operations/>

//signed//

CYNTHIA A. JAREMA



- LEGEND**
- ..... Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - ⊥ Beacon, General
  - Contour Lines
  - ▭ Channel Limits
- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
  - PROJECT DEPTH +2'
  - PROJECT DEPTH +3'
  - PROJECT DEPTH +4'
  - PROJECT DEPTH +5'



**NOTES:**

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

GRIDS SHOWN ARE BASED ON THE NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM, US SURVEY FOOT.

ALL SOUNDINGS ARE REFERENCED TO 1 G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

PROJECT DEPTHS FOR THIS HARBOR RANGE FROM 23.0' TO 18.0'

POSITIONING METHOD: MARINESTAR GNSS G2  
 MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V  
 EQUIPMENT: ODOM CV SINGLE BEAM ECHOSOUNDER  
 SOFTWARE: HYPACK 2021  
 VESSEL: LAUNCH 9058  
 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS



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|  |                       |                           |
|--|-----------------------|---------------------------|
| U.S. ARMY CORPS OF ENGINEERS<br>DETROIT DISTRICT |                       |                           |
| Submitted:                                       | Surveyed By:          |                           |
| Recommended:                                     | Plotted By:           |                           |
| Approved:  | Chief, Survey Section | Chief, Technical Services |

**ST JOSEPH HARBOR, MI**  
**St Joseph Harbor**  
**ST\_01\_JOE\_20221021\_CS**  
**21 October 2022**

**Sheet Reference Number**  
**1 of 4**