

LEGEND

Federal Navigation Channel

Federal Navigation Center Line

Cable Submarine

Cable Overhead

Placement Area

Contour Lines

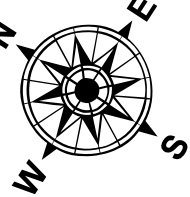
Shoaling Area

Shoalest Sounding**

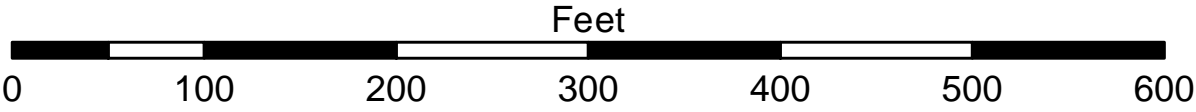
Beacon, General

Red Navigation Buoy

Green Navigation Buoy



1 inch = 100 feet



- NOTES:
1. THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 FOOT AREA CENTERED ON THE TEXT. DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.
 2. 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 PRESENT AT THAT TIME.
 3. SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES THAT HAVE BEEN VERIFIED TO MATCH AN AUTOMATED NOAA GAGE LOCATED AT ONTONAGON, MICHIGAN (6099044). DEPTHS ARE MEASURED USING AN R2 SONIC 2024 MULTIBEAM SONAR.
 4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 1408. THE POSITIONING SYSTEM IS APPLIANX POS MV.
 5. THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.
 6. PROJECT DEPTHS ARE 19.0 FEET, 22.0 FEET AND 23.0 FEET.
 7. IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY.



The data is publicly available. The data represents the results of data collection operations for the purpose of providing information to the public. Engineers actively and indicates the general existing conditions. The data is not intended for use in any other manner. The user is responsible for the results of any of the application of the data for other than its intended purpose.

DISCLAIMER: The United States Government (USACE) does not warrant, represent, or guarantee the accuracy, completeness, or reliability of the data for any particular purpose of the user. The data is provided "as is" and "as available" and is not intended to be used for any purpose other than its intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT			
Submitted:	Surveyed By:	ATA/KRC	
Recommended:	Plotted By:		
Approved:	Chief, Survey Section		
	Chief, Technical Services		

Ontonagon, MI
Ontonagon Harbor
OT_01_NGN_20200422_CS
22 April 2020

Sheet
Reference
Number
2 of 2