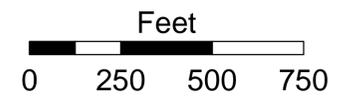
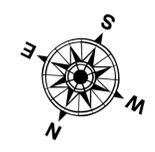


- LEGEND**
- Channel Centerline
  - Channel Limits
  - Cable Submarine
  - Cable Overhead
  - Obstruction Point
  - Beacon, General

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS 28.0' OUTER HARBOR, 29.0' APPROACH CHANNEL AND 27.0' RIVER CHANNEL BELOW LOW WATER DATUM.



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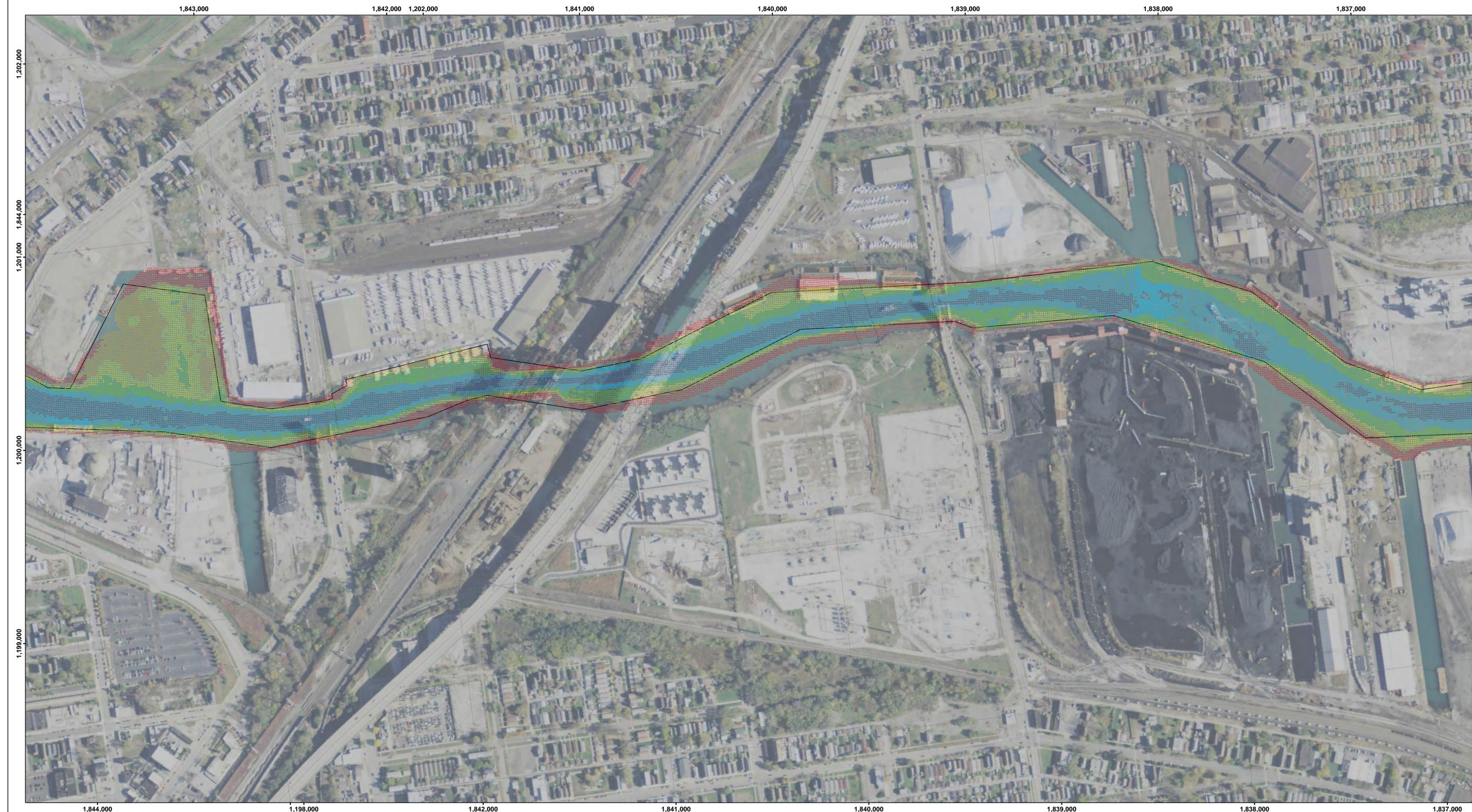
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<b>U.S. ARMY ENGINEERS CORPS OF ENGINEERS CHICAGO, ILLINOIS</b>	Surveyed by: J. Mrozek
	Survey Date: April 23, 2015
	Reviewed by: Path: G:\Hydro\products\MXD\LC_01_CAL_River.mxd

**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
1 of 7**



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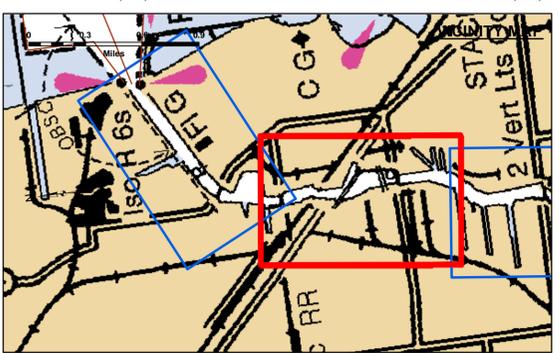
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	Reviewed by:	
	Path:	C:\Hydro\products\MXD\LC_01_CAL_River.mxd

**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
2 of 7**

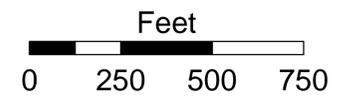
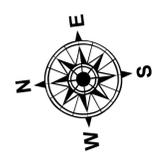


**LEGEND**

- Channel Limits
- Cable Submarine
- Cable Overhead
- Obstruction Point

	4+ Feet Above Authorized Channel Depth
	2-4 Feet Above Authorized Channel Depth
	0-2 Feet Above Authorized Channel Depth
	0-2 Feet Below Authorized Channel Depth
	2-4 Feet Below Authorized Channel Depth
	4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS 28.0' OUTER HARBOR, 29.0' APPROACH CHANNEL AND 27.0' RIVER CHANNEL BELOW LOW WATER DATUM.



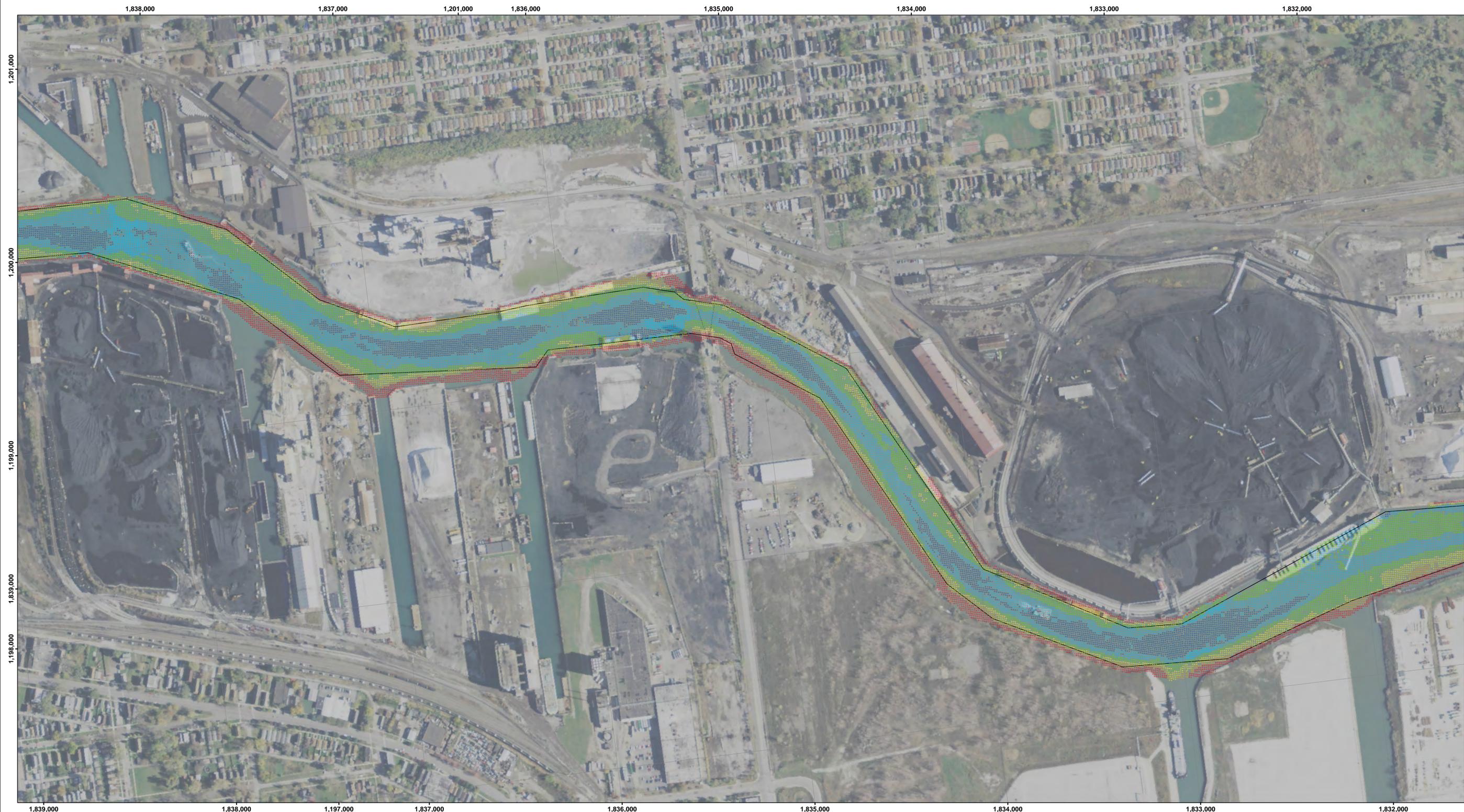
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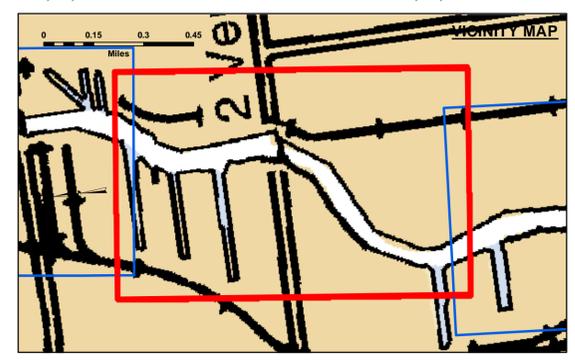
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<b>U.S. ARMY ENGINEERS CORPS OF ENGINEERS CHICAGO, ILLINOIS</b>	
Surveyed by: J. Mrozek	Survey Date: April 23, 2015
Reviewed by:	
Path: G:\Hydroproducts\MXDLC_01_CAL_River.mxd	

**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
3 of 7**

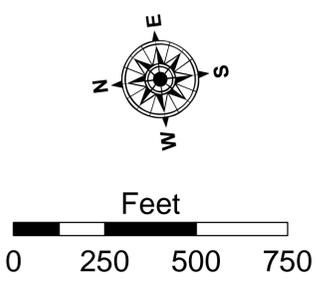


**LEGEND**

	Channel Limits
	Cable Submarine

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

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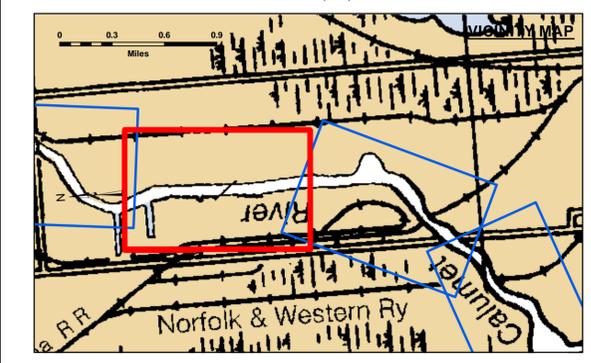
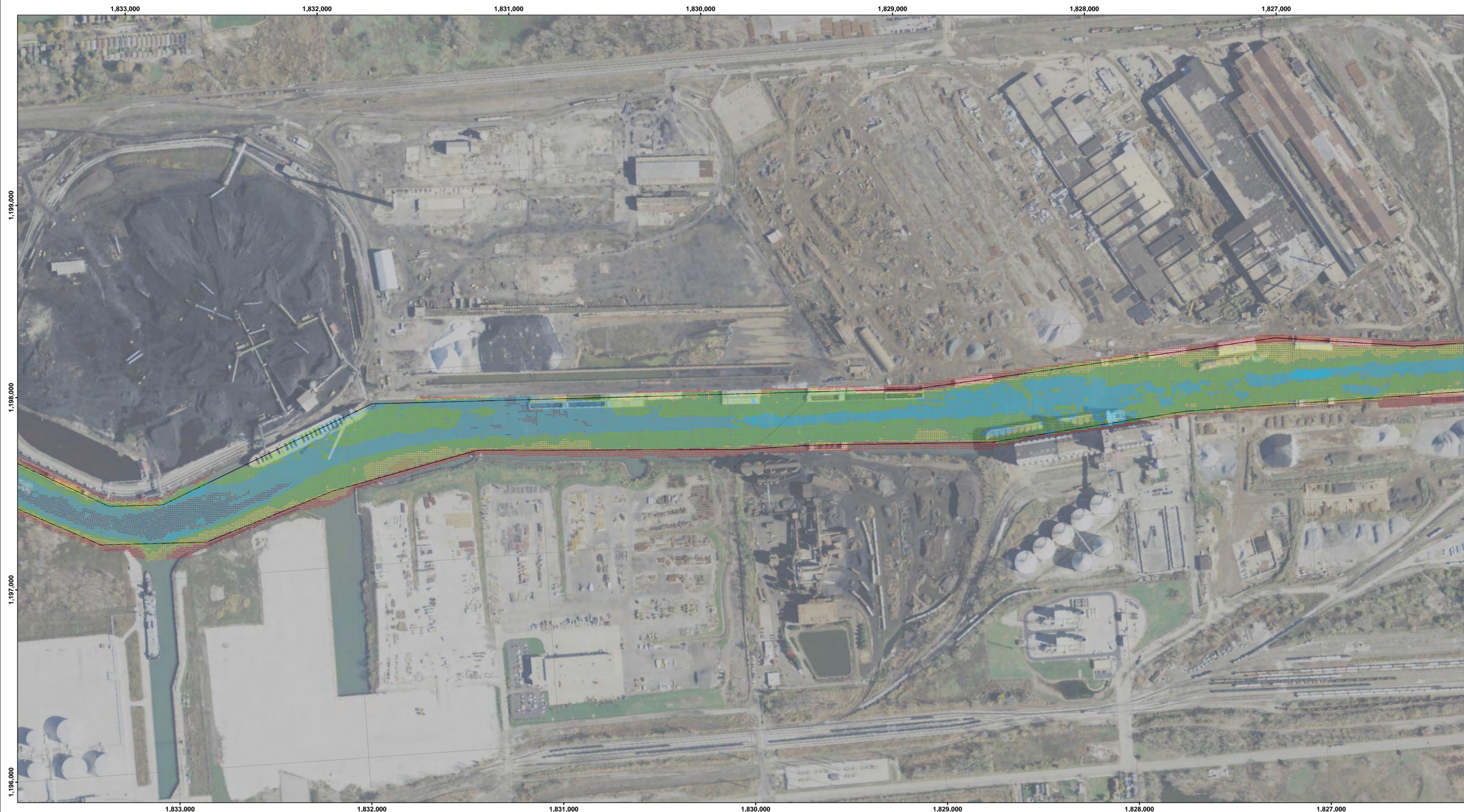
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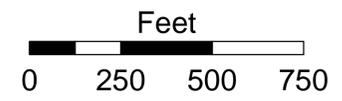
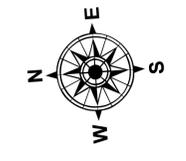


**LEGEND**

- Channel Limits
- Cable Overhead

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

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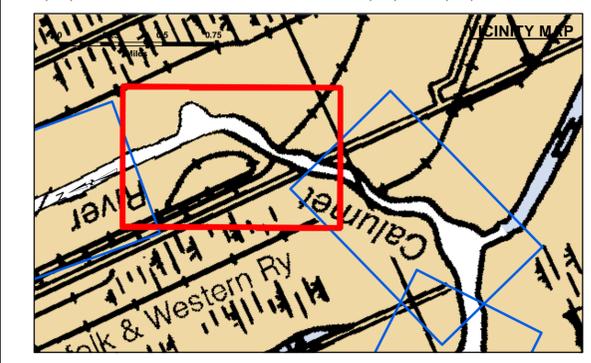
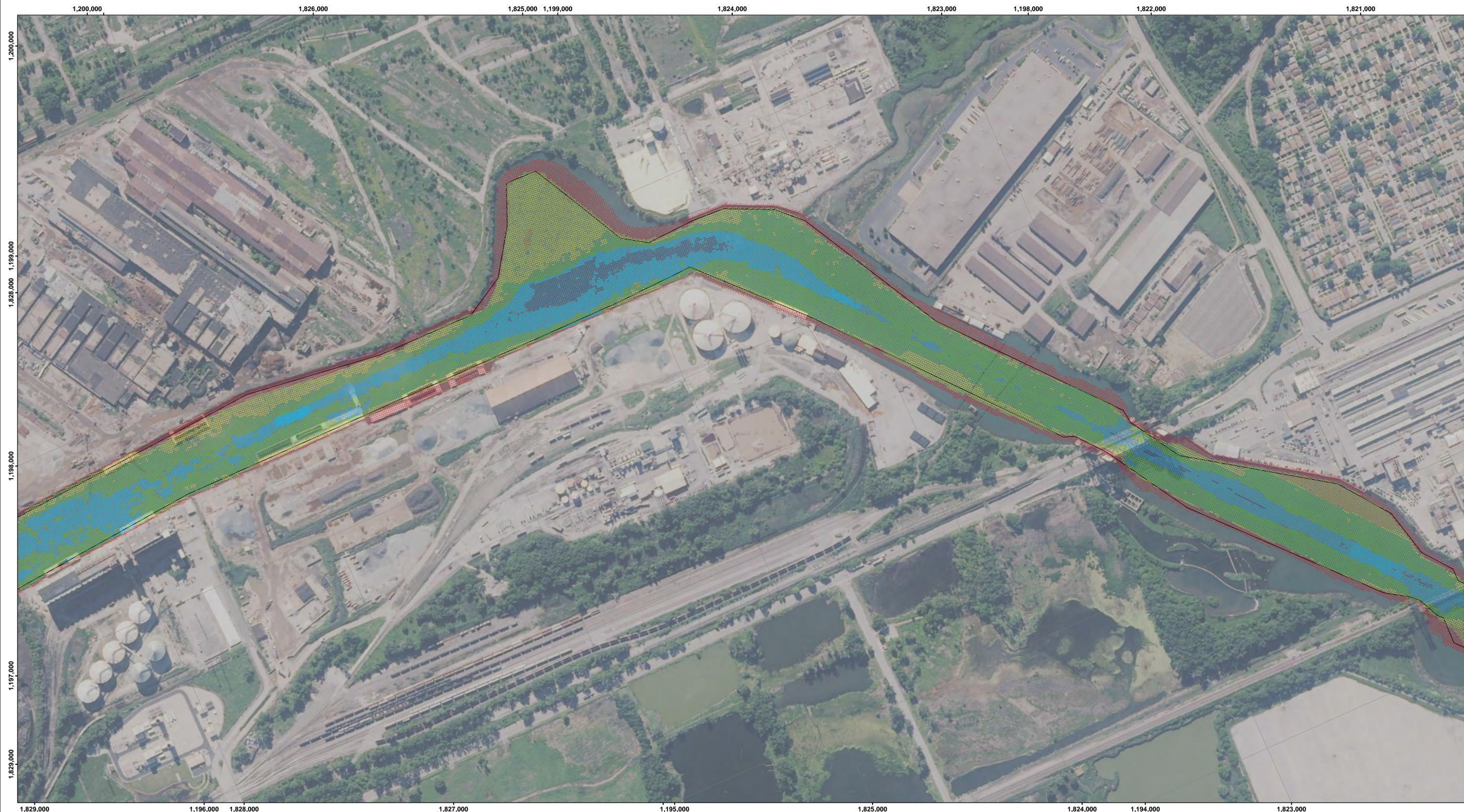
Surveyed by: J. Mrozek	Survey Date: April 23, 2015
Reviewed by:	
Path: G:\Hydroproducts\MMDLCL_01_CAL_River.mxd	

**U.S. ARMY ENGINEERS  
CORPS OF ENGINEERS  
CHICAGO, ILLINOIS**

**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL**

**CONDITION SURVEY**

**Sheet  
Reference  
Number  
4 of 7**

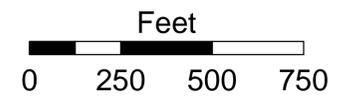
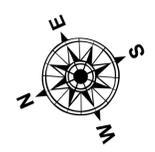


**LEGEND**

- Channel Limits
- Cable Submarine
- Cable Overhead

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

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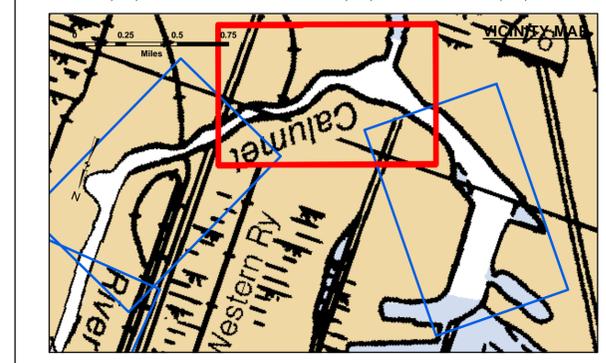
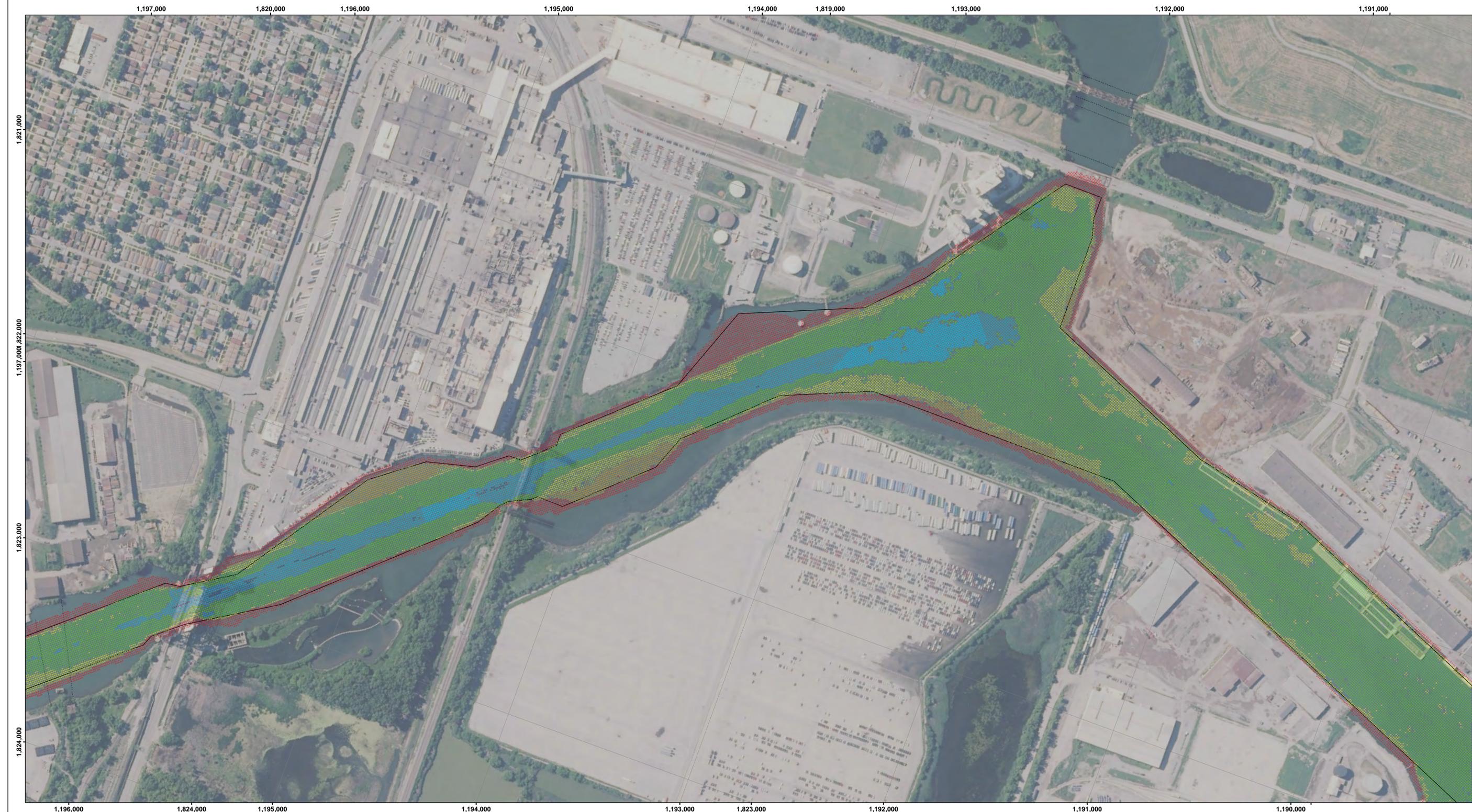


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Reviewed by:	
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**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
5 of 7**

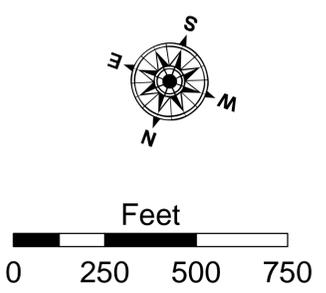


**LEGEND**

- Channel Limits
- Cable Submarine
- Cable Overhead
- Obstruction Point

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

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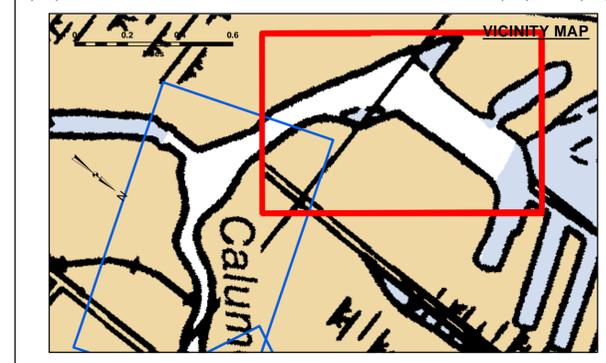


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<b>U.S. ARMY ENGINEERS CORPS OF ENGINEERS CHICAGO, ILLINOIS</b>	
Surveyed by: J. Mrozek	Survey Date: April 23, 2015
Reviewed by:	
Path:	C:\hydro\products\MXD\LC_01_CAL_River.mxd

**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
6 of 7**

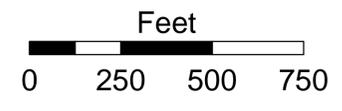


**LEGEND**

- Channel Limits
- Wrecks-Submerged

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

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HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER 4.0

GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, ILLINOIS EAST ZONE (1201), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BETWEEN APRIL 22, 2015 AND APRIL 30, 2015 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.



**DISCLAIMER:** The United States Government furnishes these data and the recipient accepts them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient shall be responsible for the accuracy, completeness, reliability, usability or availability for any particular purpose of the data. The recipient shall be responsible for the accuracy, completeness, reliability, usability or availability for any particular purpose of the data. The recipient shall be responsible for the accuracy, completeness, reliability, usability or availability for any particular purpose of the data. The recipient shall be responsible for the accuracy, completeness, reliability, usability or availability for any particular purpose of the data.

<b>U.S. ARMY ENGINEERS CORPS OF ENGINEERS CHICAGO, ILLINOIS</b>	
Surveyed by: J. Mrozek	Survey Date: April 23, 2015
Reviewed by:	
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**CALUMET HARBOR, ILLINOIS  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
7 of 7**