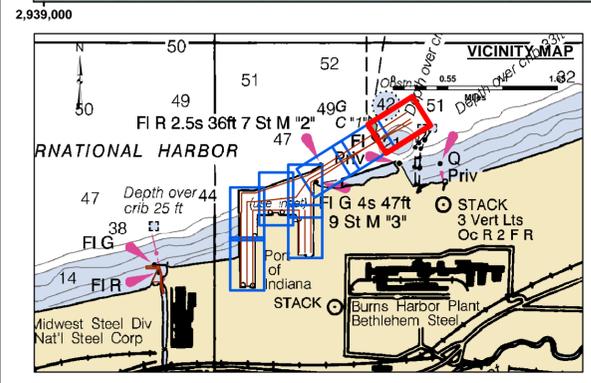


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**CHICAGO DISTRICT  
BURNS HARBOR, INDIANA  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
1 of 8**

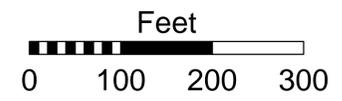


**LEGEND**

	Channel Centerline
	Channel Limits

- 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 27.0' INNER HARBOR 28.0' OUTER HARBOR AND 30.0' APPROACH CHANNEL BELOW LOW WATER DATUM.



**NOTES:**

THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH SOUNDING THE FOOT BY FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT POINT RIMOUSKI QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT WAUKEGAN HARBOR, ILLINOIS. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APR 7-8, 2014 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

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 INDIANA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, INDIANA WEST (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

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2,938,000

2,332,000

2,333,000

2,333,000

2,937,000

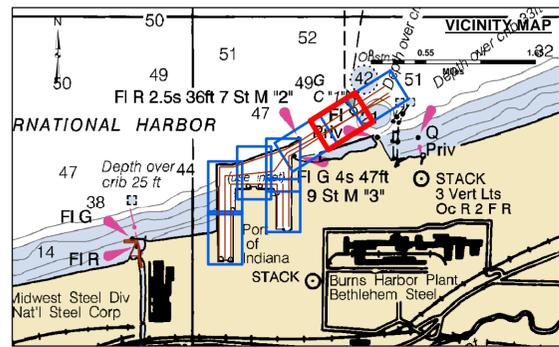
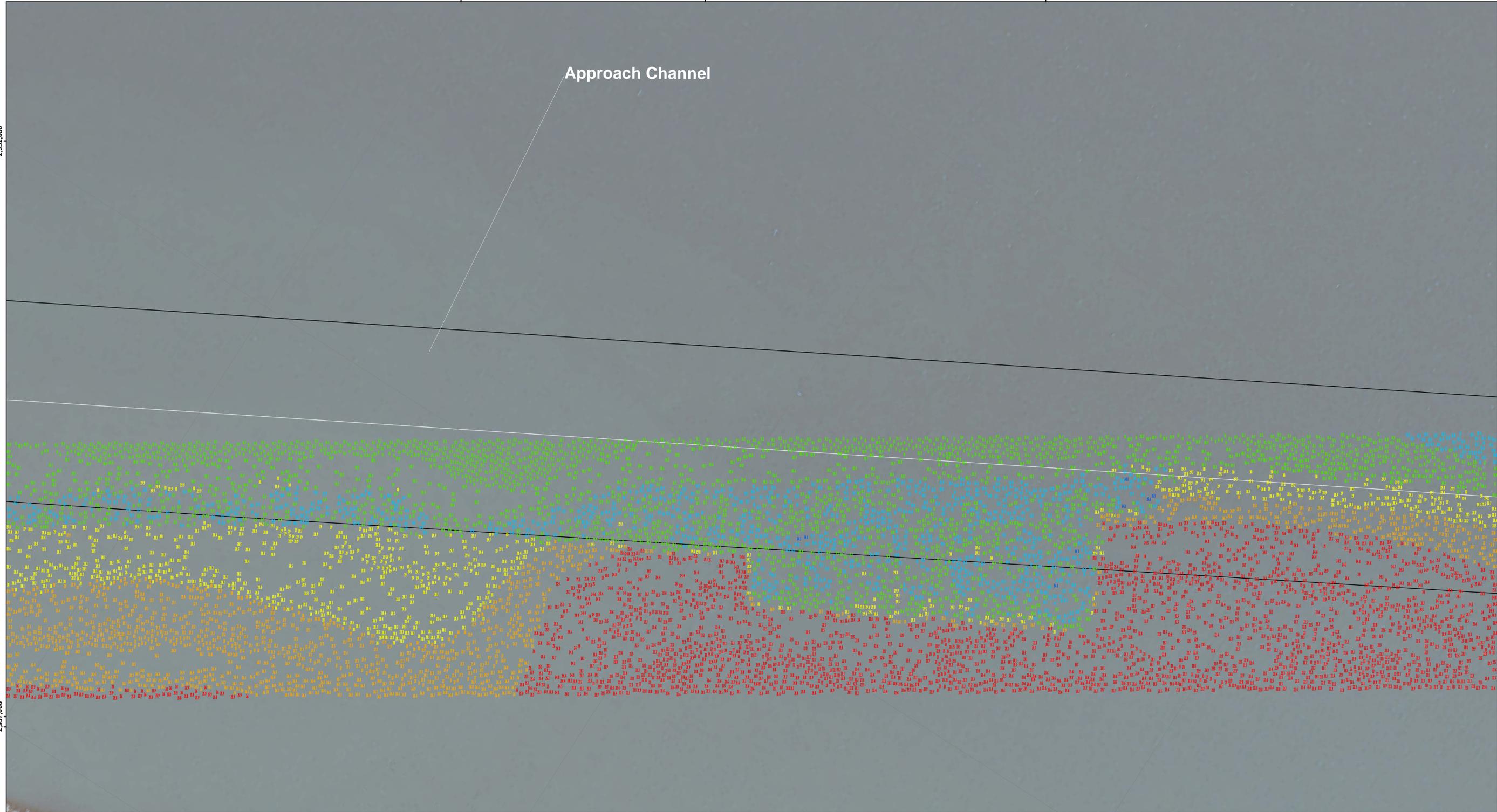
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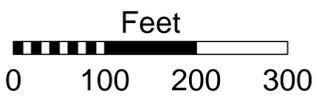


**LEGEND**

- Channel Centerline
- Channel Limits

- 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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**NOTES:**

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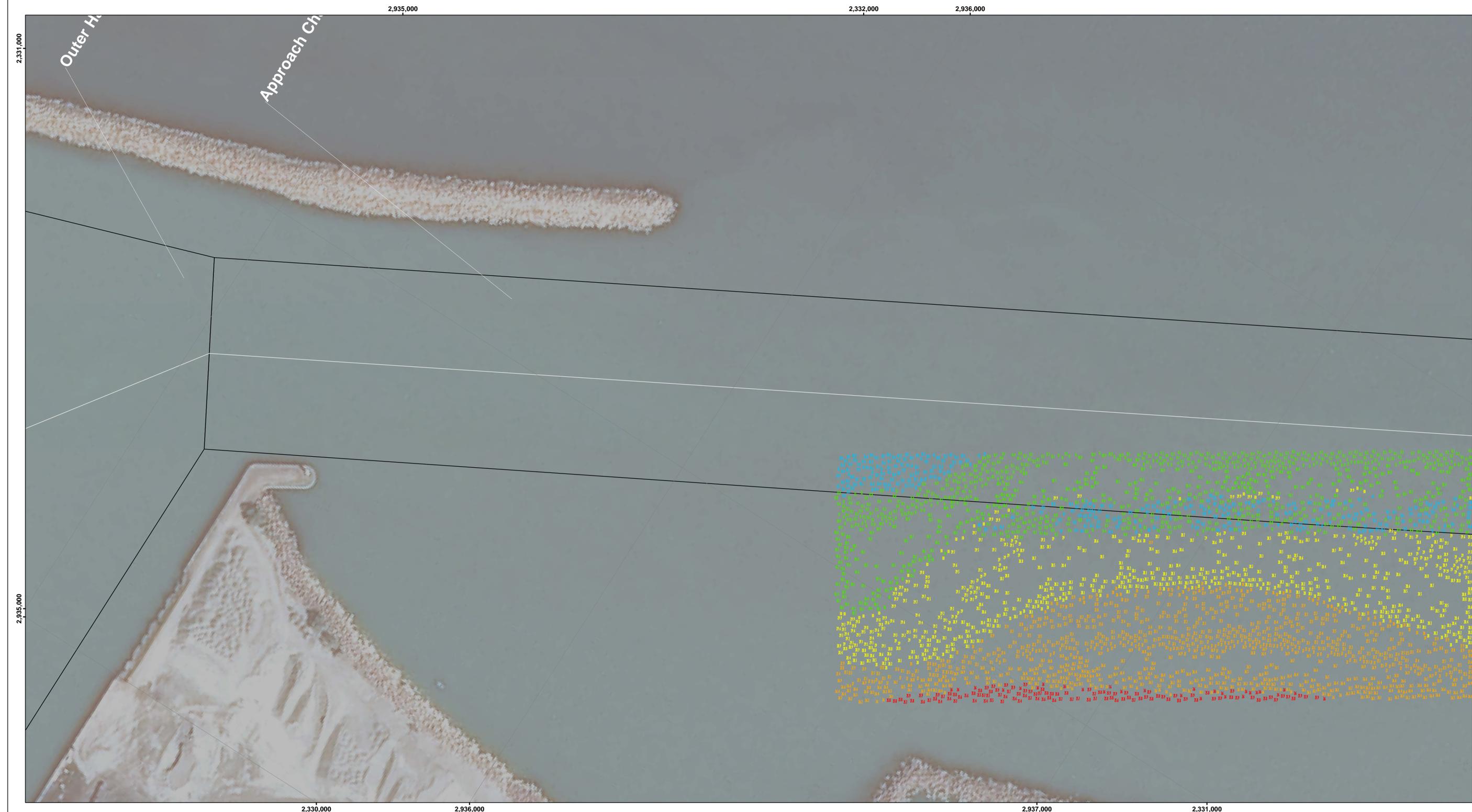


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Surveyed by: J. Mrozek	Survey Date: Apr. 7, 2014
Reviewed by:	
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**CHICAGO DISTRICT  
BURNS HARBOR, INDIANA  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
2 of 8**

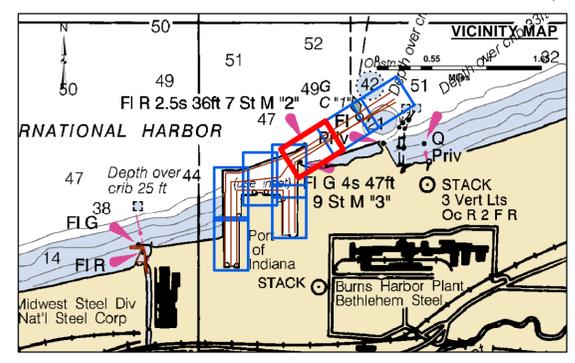


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Reviewed by:	
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**CHICAGO DISTRICT  
BURNS HARBOR, INDIANA  
FEDERAL NAVIGATION CHANNEL  
CONDITION SURVEY**

**Sheet  
Reference  
Number  
3 of 8**

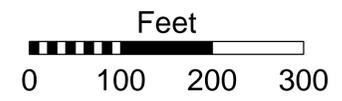


**LEGEND**

	Channel Centerline
	Channel Limits

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