

# Lake Carriers' Association Captains Committee Meeting

**USACE**

**David Wright, Detroit District**

**Kevin Sprague, Soo Area Office**

Detroit District

February 6, 2014



US Army Corps of Engineers  
**BUILDING STRONG®**



# Agenda

Winter Maintenance Work  
Soo Rock Cut Wall Stabilization  
FY14 Funding  
Great Lakes Dredging  
Soo Locks Asset Renewal  
Open Discussion



# 2013-2014 Maintenance

## **Poe Lock**

- Poe Hydraulic System Replacement
- Gate 1 Investigation and re-stressing

## **MacArthur Lock**

- Concrete Repairs
- Valve Repairs
- Grouting
- Gate Anchorage Install

\*A New Compressed Air Plant and distribution system will be completed in 2014.





# Poe Lock Hydraulics



# Poe Lock Hydraulics



New Cylinder at Gate 2N



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# Fender Replacement



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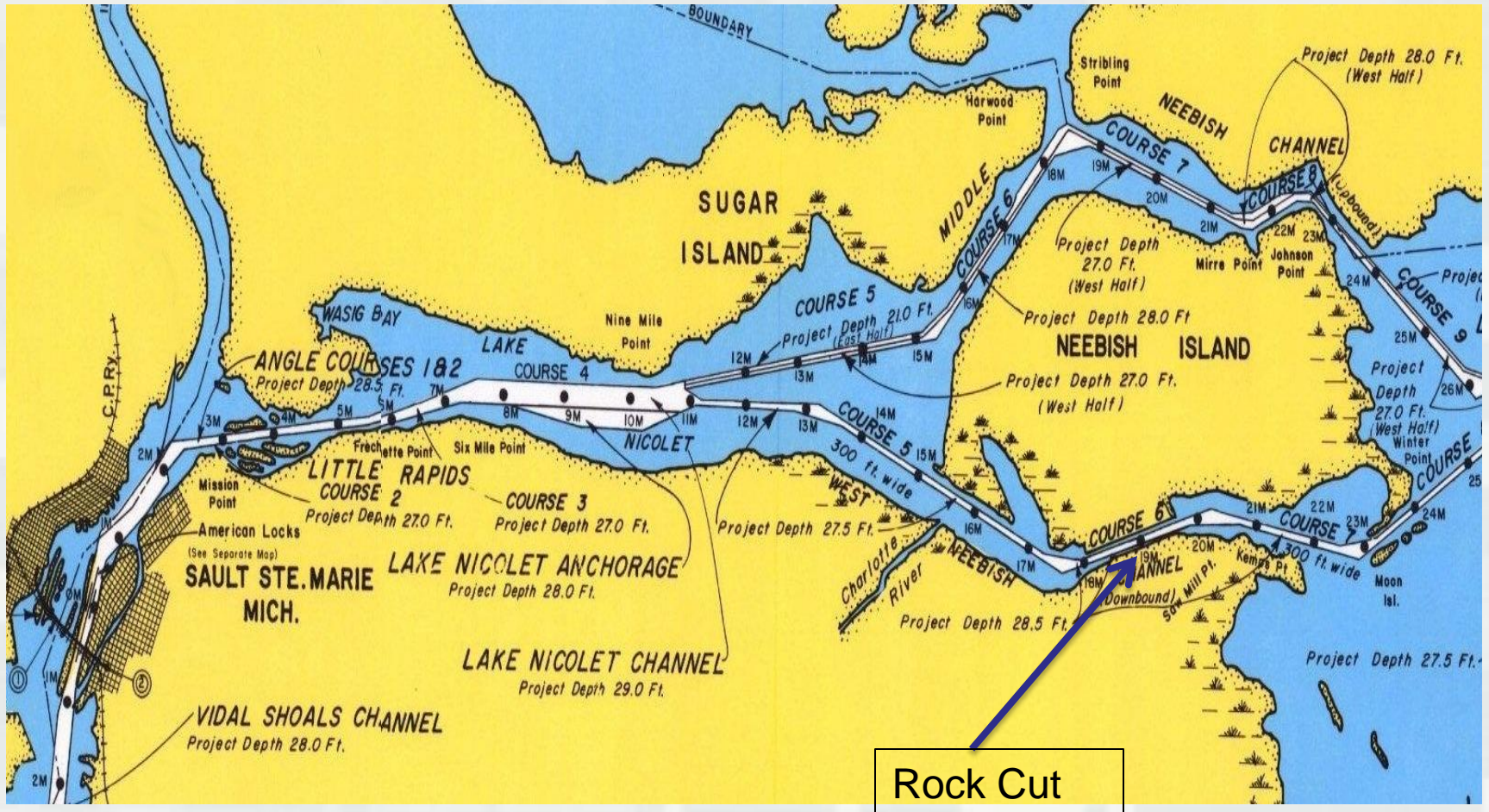




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# West Neebish Island Rock Cut





# 2013 Rock Cut Wall Rehabilitation



## 2013 Work Area Approximately 1,000 Feet





## 2013 Aerial View and Work Area ~ Approximately 1,000 Feet





## 2013 Aerial View and Work Area ~ Approximately 1,000 Feet





**The 2013 wall work is identical to this section of wall replaced in 2012.**



# FY14 Corps Funding Status

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- Congress has passed a spending bill for FY14.
- In addition to project specific line items, bill includes several additional pots of funding identified for specific O&M activities (\$270M total).
- HQUSACE is in process of determining what additional project needs will be funded with the additional funding and has to report proposed plan back to Congress by end of February.
- Likely that the Great Lakes districts will receive additional project funding





# FY 14 Conference Report

## Great Lakes Navigation

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\$94.9M Great Lakes Navigation Operations & Maintenance

### Key Items in FY14 Conference Report

\$39.9M in Dredging (18 projects – 3.1M cubic yards)

\$10.6M in Dredged Material Management

\$1.6M in Soo Asset Renewal



# FY14 Dredging Funding





# FY 14 Conference Report

## Dredging Projects

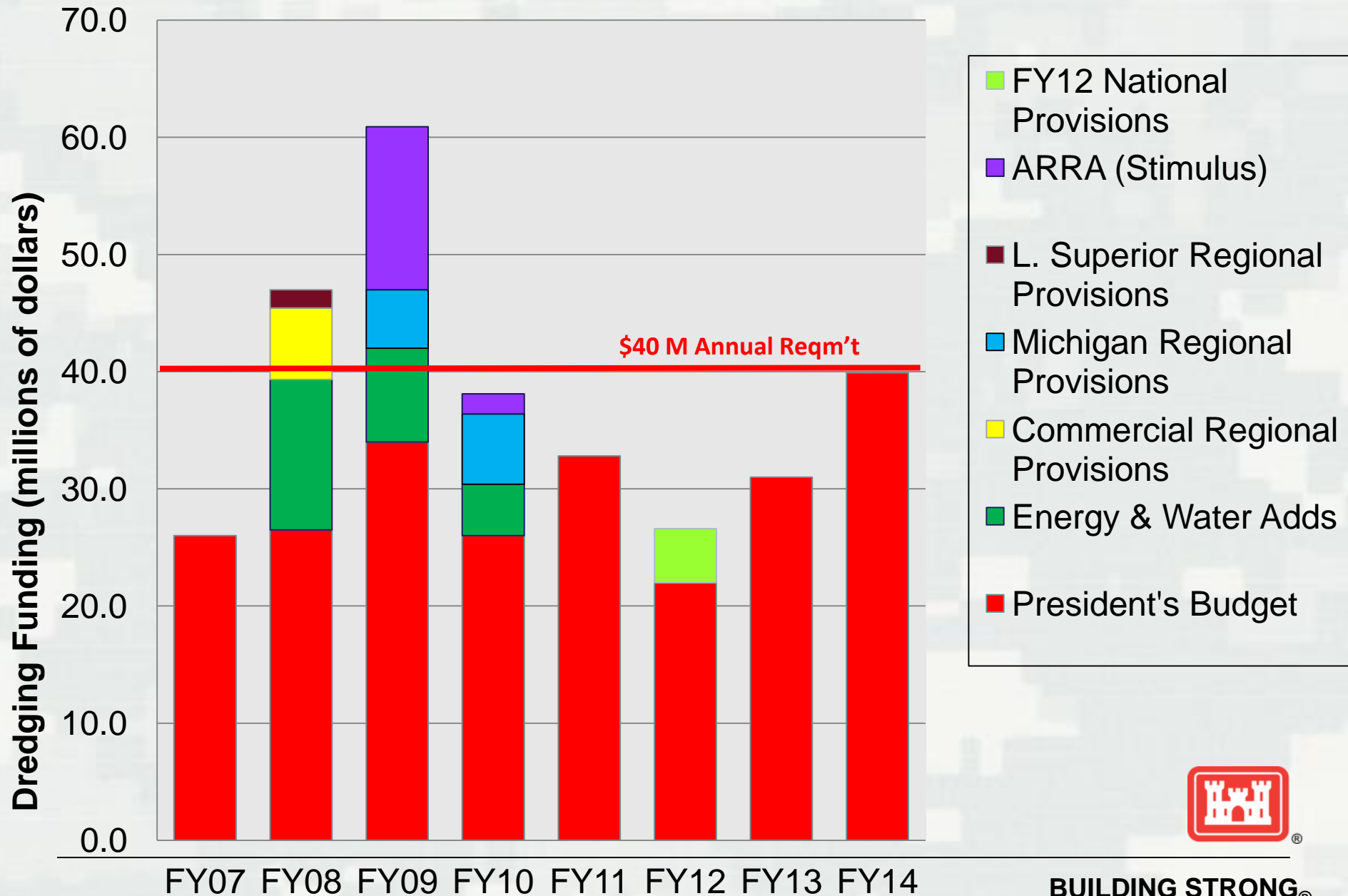
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Duluth-Superior  
Green Bay  
Calumet  
Indiana Harbor  
Holland  
Grand Haven  
Lorain  
Waukegan  
St. Marys River

Saginaw River  
Detroit River  
Toledo  
Sandusky  
Cleveland  
Ashtabula  
Buffalo  
Fairport  
Burns Harbor

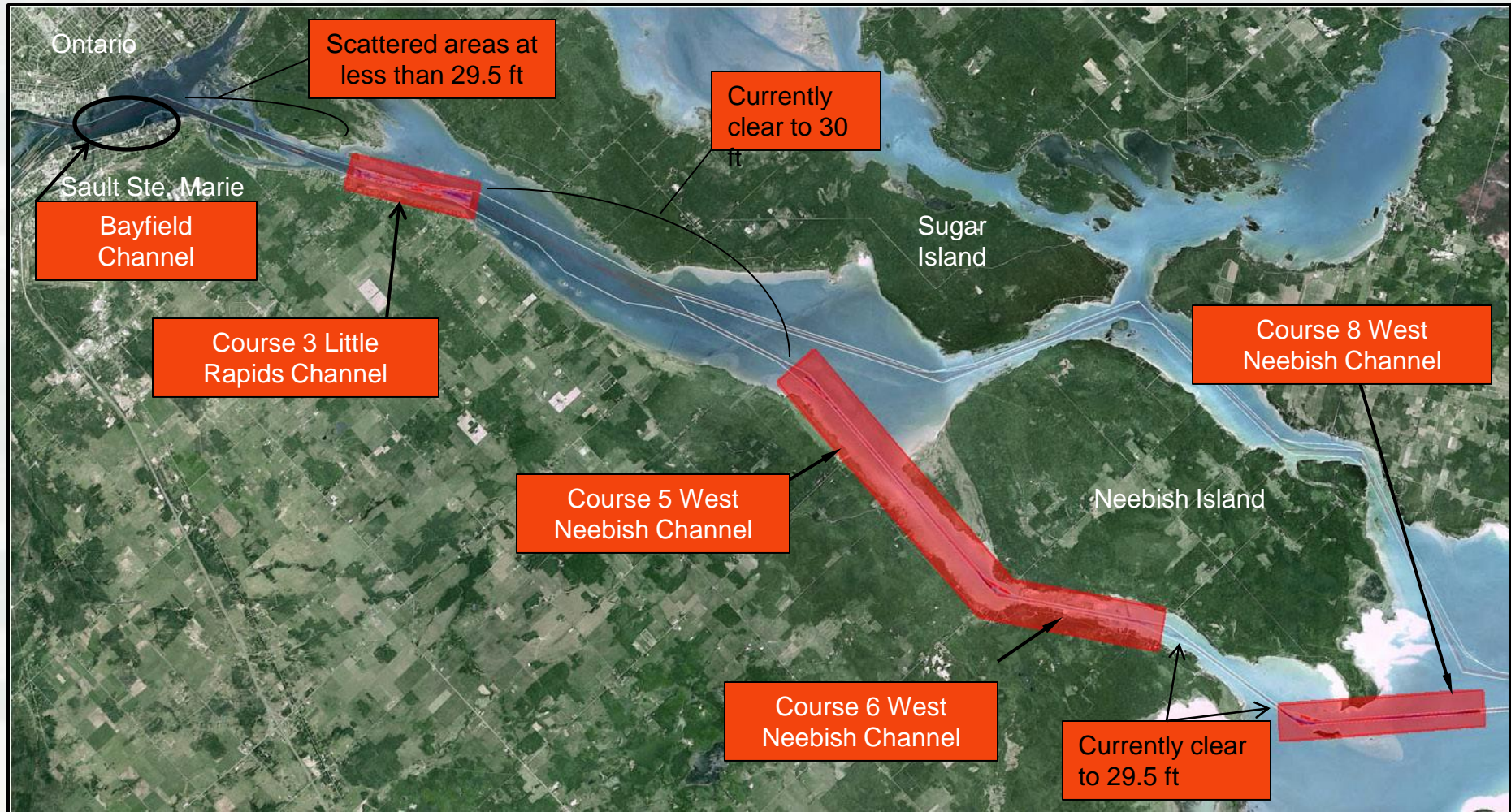


# Dredging Funding Trends 2007 - 2013



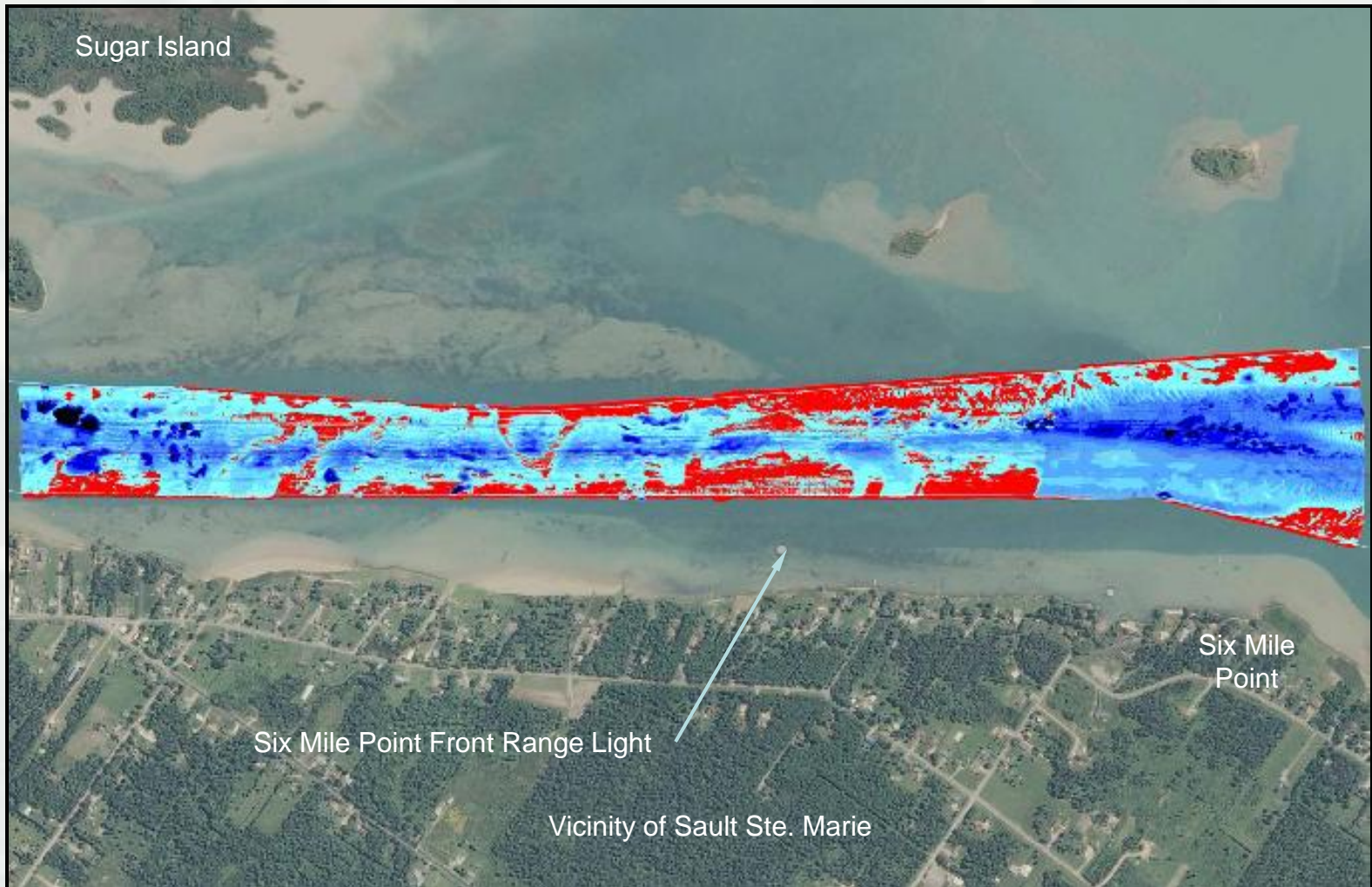


# LOWER ST. MARYS RIVER CHANNEL CONDITIONS





## COURSE 3 LITTLE RAPIDS CHANNEL

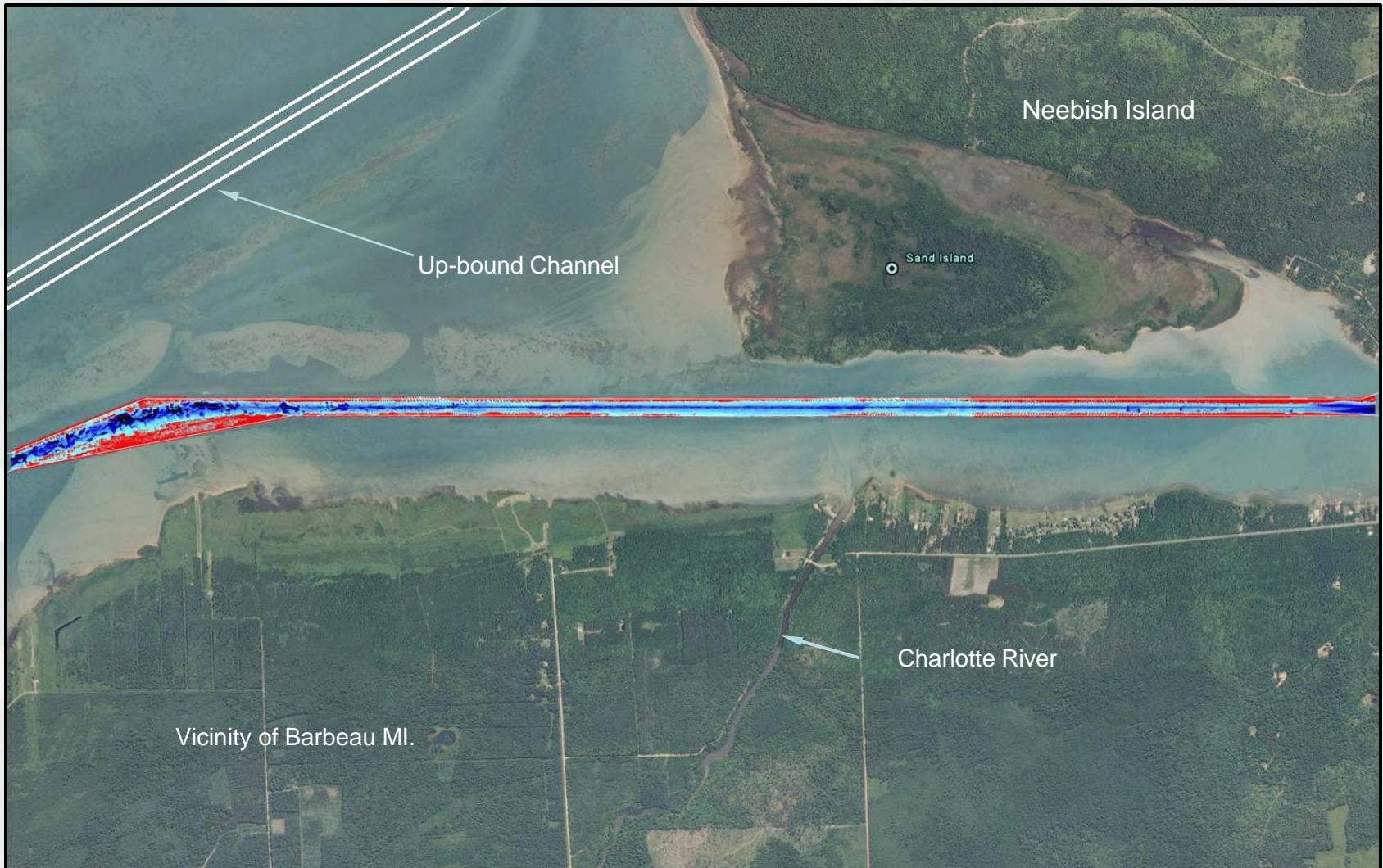


**Submitted Budget Pkg for FY15, Estimated Qty = 118,600 CY**





# COURSE 5 WEST NEEBISH CHANNEL

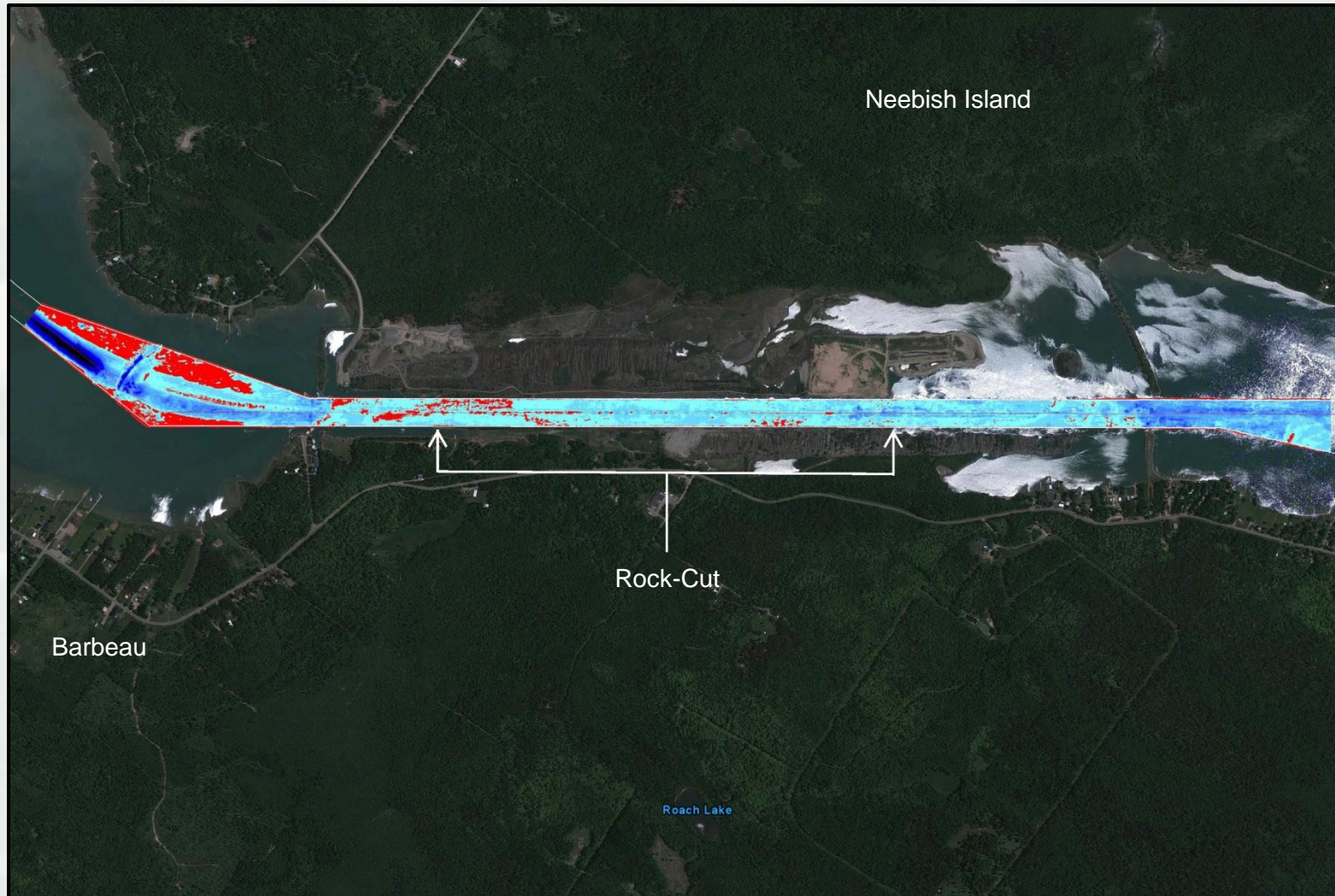


**Submitted Budget Pkg for FY15, Estimated Qty = 217,000 CY**





# COURSE 6 WEST NEEBISH CHANNEL ROCKCUT



Government Plant





## COURSE 8 WEST NEEBISH CHANNEL



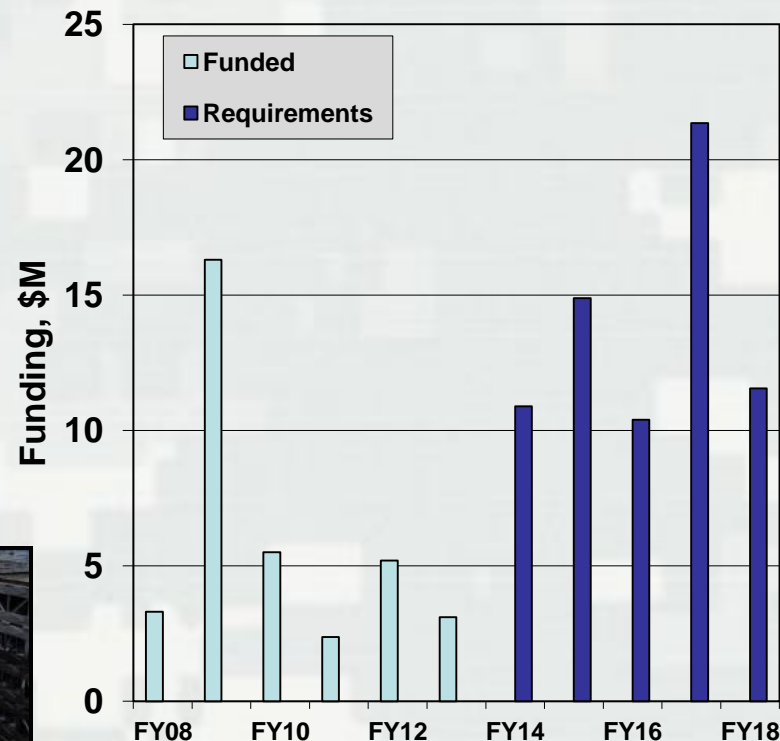
**\$500K Budget Pkg in FY14 PBUD – removal of shoaling to project depth + advance maintenance**



# Soo Locks Asset Renewal Long-Term Plan

Asset Renewal Plan will maximize reliability and reduce risk through 2035

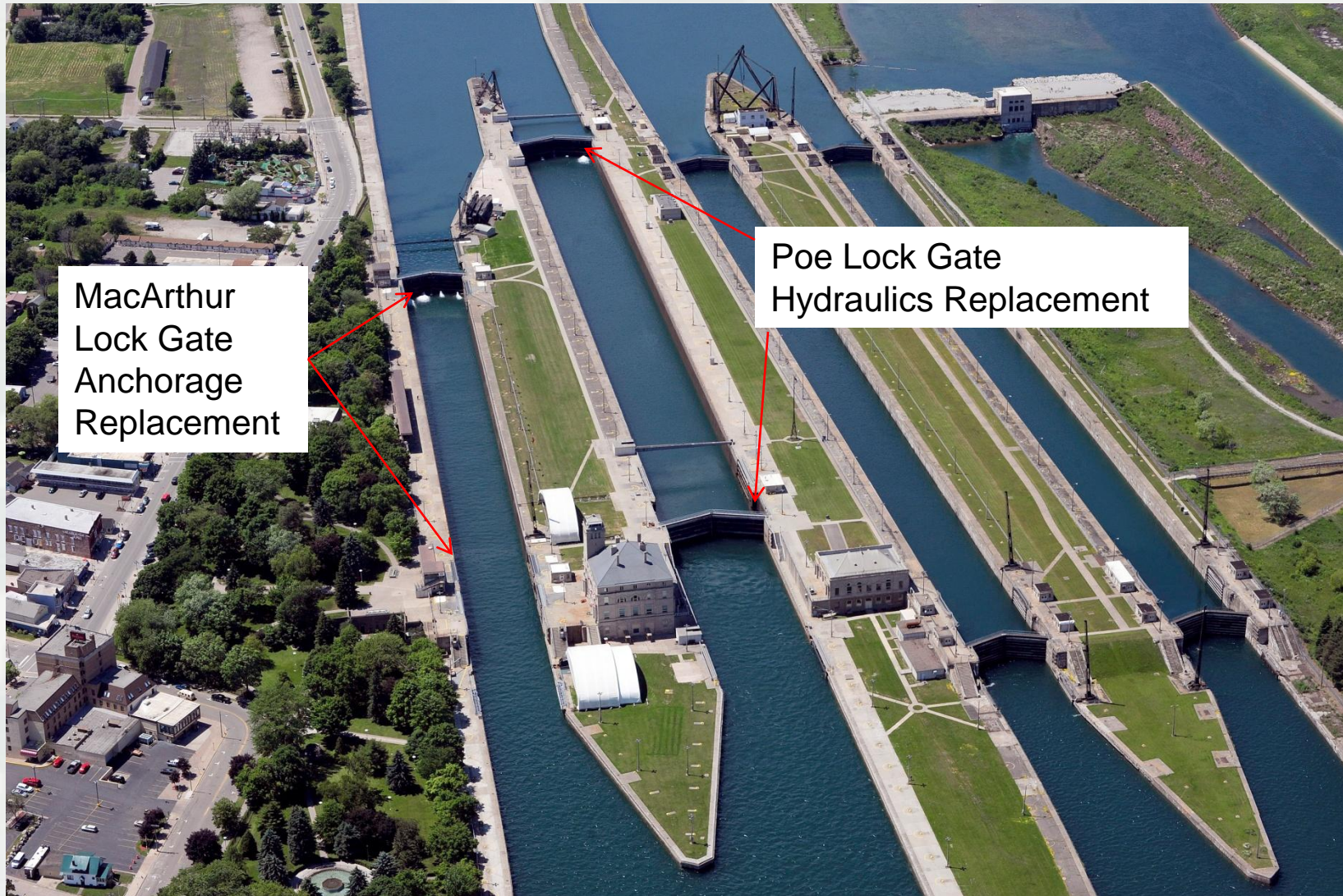
- \$35.9M funded to date through FY13
  - New hydraulics, stop logs, utilities
  - Crib Dam construction
  - Compressed Air System
  - Mac Lock modernization design
- Remaining funding required \$69 million over 5 years
  - Poe and Davis Pump Well Valves
  - Poe Electrical Rehabilitation
  - MacArthur Interlocks and Controls Upgrade



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# Soo Locks Asset Renewal - Ongoing





# Poe Lock Hydraulics



New Cylinder at Gate 2N



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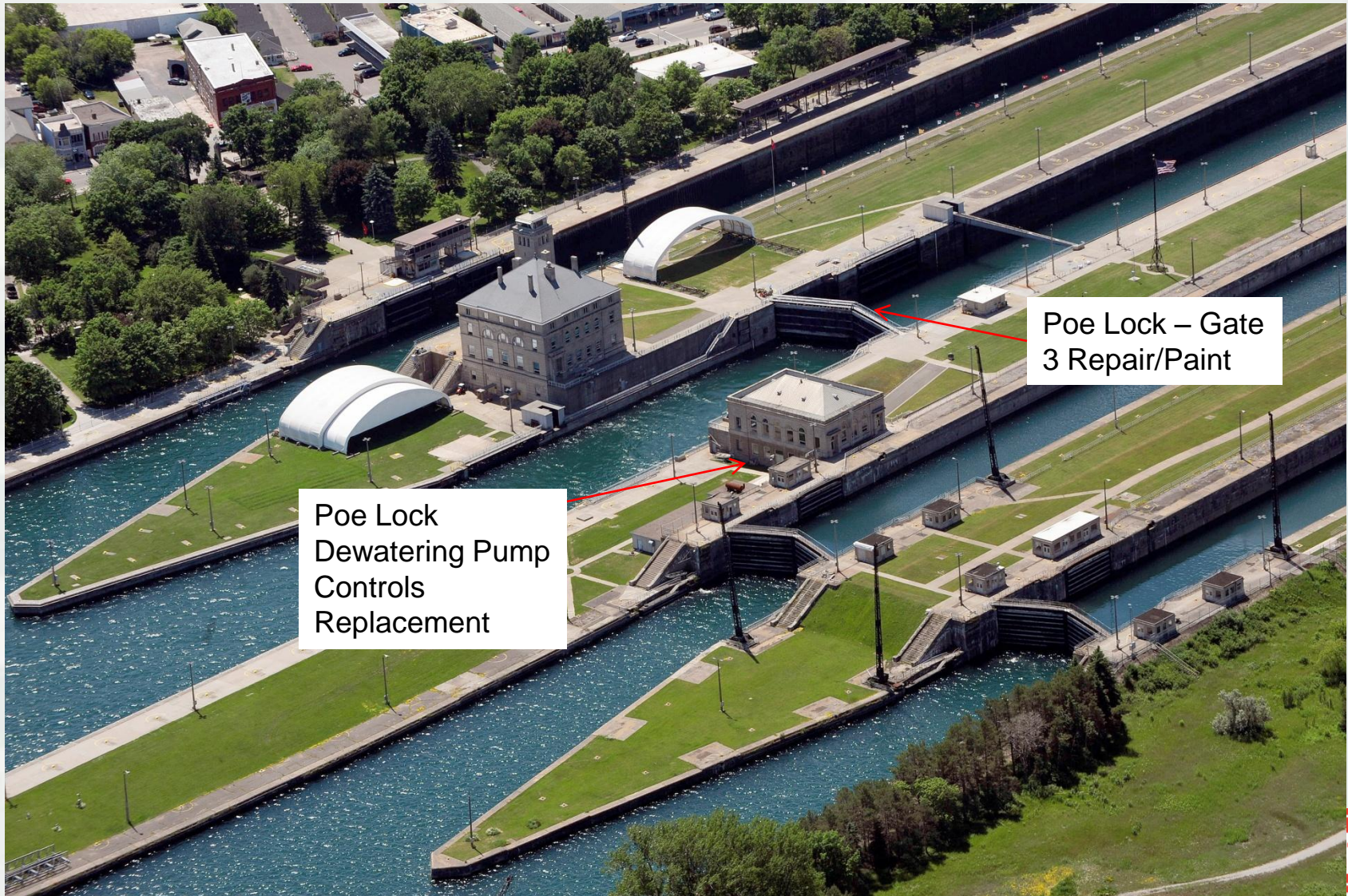


# MacArthur Lock Gate Anchorages





# Soo Locks Asset Renewal - FY14 Spending Bill





# St Clair River, Michigan



AREA	DEPTH		WIDTH	
	AUTHORIZED	RECOMMENDED	AUTHORIZED	RECOMMENDED
SHOWN	27.1'-30'	27.1'-30'	700'-1,400'	700'-1,400'



# Open Discussion on Locks, St. Marys River, Great Lakes Navigation



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# Key Great Lakes Contacts

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GL Navigation Business Line Manager

Mike O'Bryan – (313) 226-6444

Marie Strum – (313) 226-6794

Shamel Abou-El-Seoud - Chicago Construction-Operations Chief  
(312) 846-5470

Josh Feldmann - Buffalo District Operations Chief  
(716) 879-4206

Dave Wright - Detroit Operations Chief  
(313) 226-3573

Kevin Sprague – Soo Area Engineer  
(906) 635-3464



# Questions?





# WRDA 2000 Section 343 Authority

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- The Corps has the authority to dredge below project depths under certain circumstances
- WRDA 2000 Section 343:
  - (b) Dredging Levels.--In operating and maintaining Federal channels and harbors of, and the connecting channels between, the Great Lakes, the Secretary shall conduct such dredging as is necessary to ensure minimal operation depths consistent with the original authorized depths of the channels and harbors when water levels in the Great Lakes are, or are forecast to be, below the International Great Lakes Datum of 1985.
- This provides authority; O&M funding for the additional dredging would also be needed

