

# ST. LOUIS DISTRICT DREDGING UPDATE

Presentation for the

**WEDA MIDWEST CHAPTER MEETING 2018**

Prepared by Lance Engle

15 March 2018

*“The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”*



US Army Corps  
of Engineers®

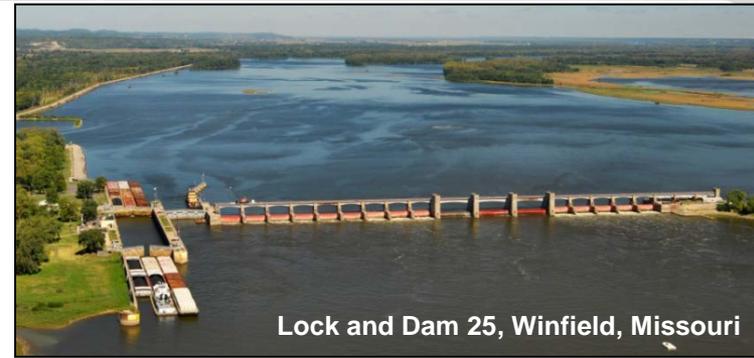


# NAVIGATION

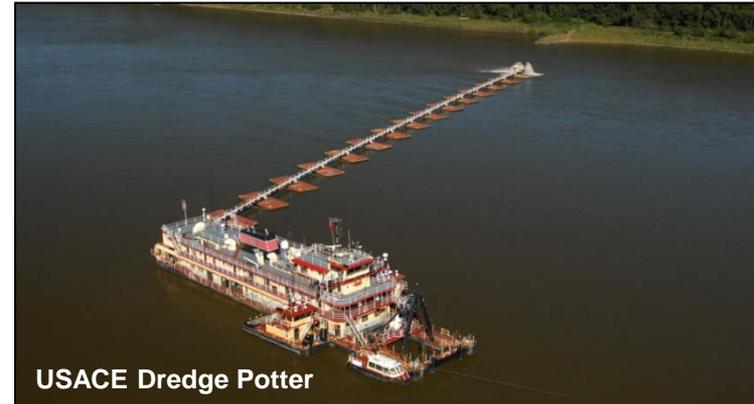


Mel Price Locks and Dam,  
Alton, Illinois.

Through effective water management, operation and maintenance of a Lock and Dam system, channel maintenance, and innovative River Engineering, St. Louis District balances diverse needs of Mississippi River stakeholders to promote the effective transportation of more than 100 million tons of commodities through St. Louis Harbor each year. The national system moves 566 million tons, creating an economic impact of more than \$180 billion annually.



Lock and Dam 25, Winfield, Missouri



USACE Dredge Potter



River training structures on the Middle  
Mississippi River.

River training structures create a self-sustaining navigation channel by using the energy of the water to predictably move sediment saving millions in dredging costs each year. With a high benefit to cost ratio, these structures enhance safety by improving navigation and providing ecosystem diversity.



US Army Corps  
of Engineers<sup>®</sup>





# CHANNEL MAINTENANCE DREDGING

Surveys 2017

1. Pathfinder Channel Patrol: 100 days
2. Contract Surveys
  - a) 3 line surveys: 2-4
  - b) Pre/post surveys: 114



MV PATHFINDER



Contract Survey Boat



US Army Corps  
of Engineers<sup>®</sup>



# CHANNEL MAINTENANCE DREDGING

## Dredge Plant Utilization

2017 Dredge Cubic Yard Totals

Potter: 4.5M

Goetz: 342k

Bill Holman: 64k



USACE DREDGE GOETZ  
9 Jobs, Aug 23 – 12 Oct



USACE DREDGE POTTER  
39 Jobs, July 10 – Nov 26



LRL CONTRACT DREDGE BILL HOLMAN (LUHR)  
1 Job (SEMO PORT) 28 Aug – 2 Sep



US Army Corps  
of Engineers<sup>®</sup>



# CHANNEL MAINTENANCE DREDGING

## Dredge Material Placement

- Upland CDF (minimal use)
- **Open Water or Bankline**



Dredge Goetz at Kaskaskia Upland CDF

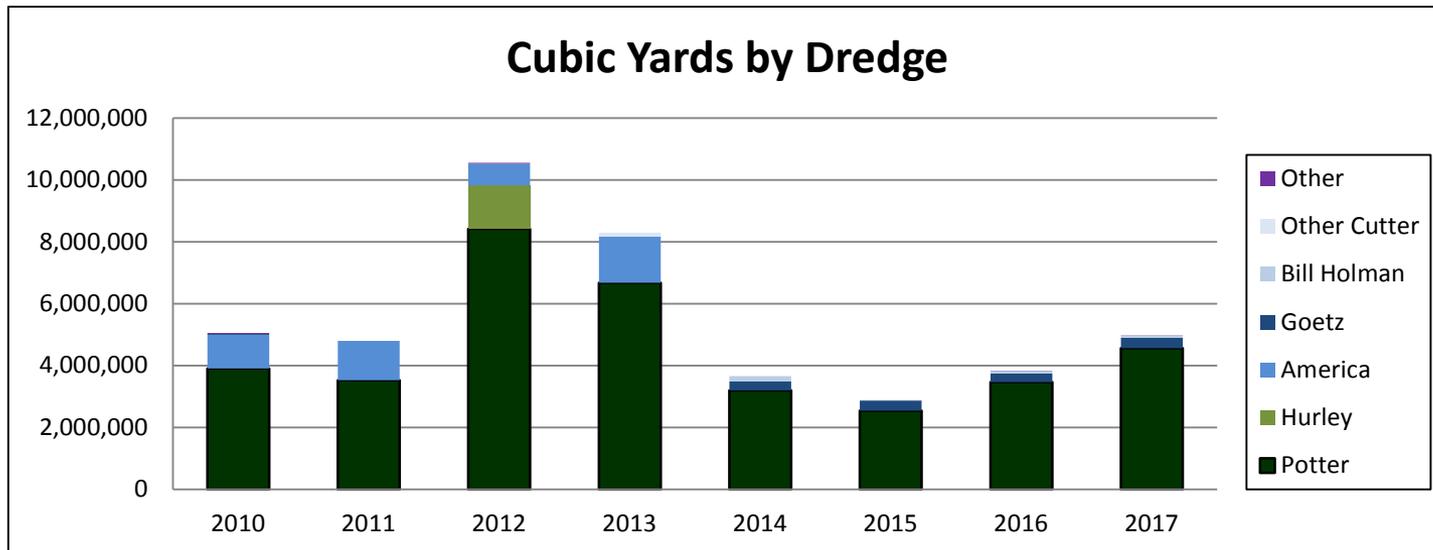


Dredge Potter 800-ft Pontoon Pipeline



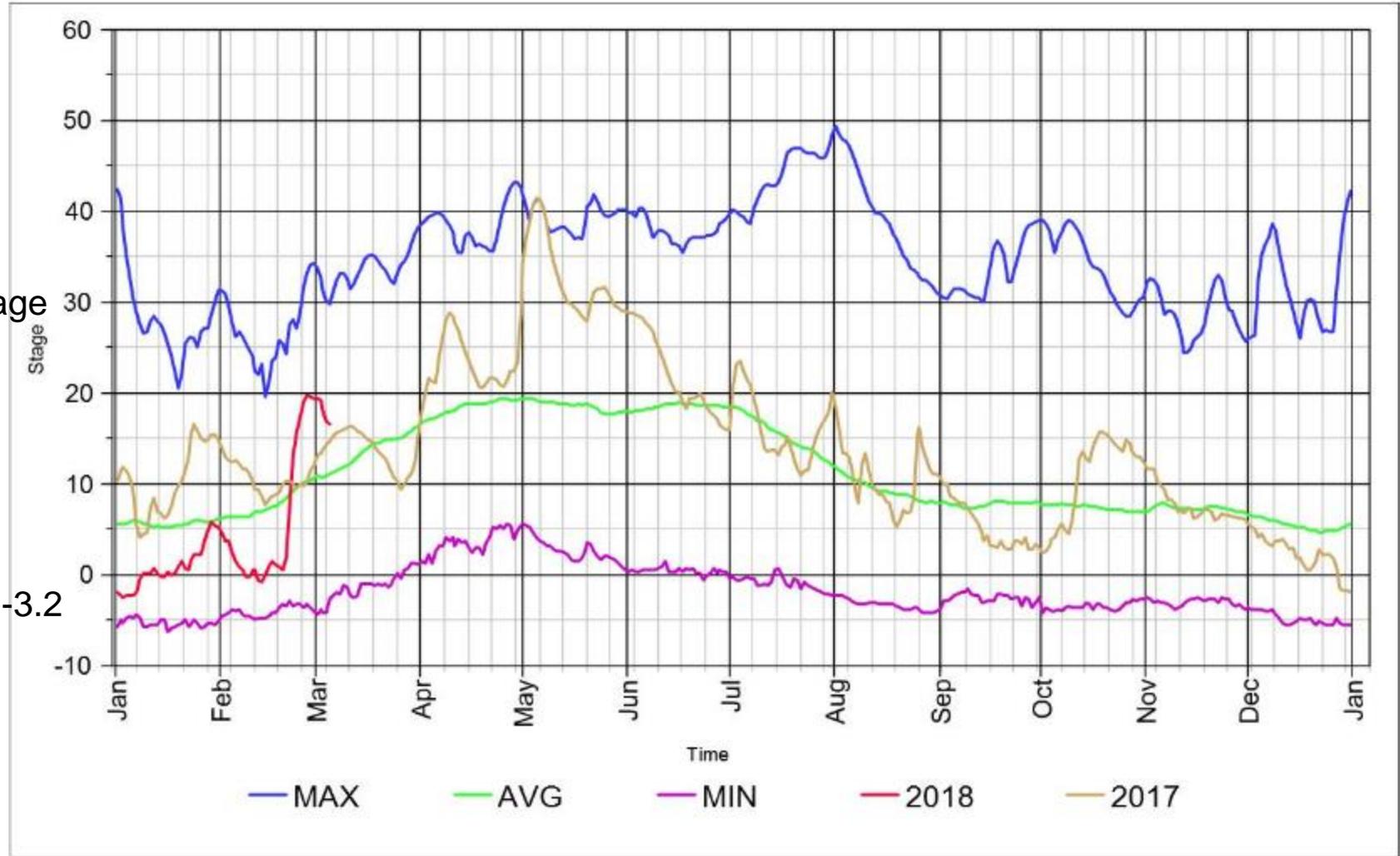
Dredge Potter 2400-ft Flex Pipe & Spill Barge

# CHANNEL MAINTENANCE Trends



# HYDROGRAPH – ST. LOUIS

Flood Stage



LWRP -3.2

— MAX — AVG — MIN — 2018 — 2017



# UPPER MISSISSIPPI RIVER RESTORATION PROGRAM

## Upper Mississippi River Restoration Program

- Public Law 99-662, 1986 WRDA, as amended, authorizes the US Army Corps of Engineers (USACE) to study, design, and construct Habitat Rehabilitation & Enhancement Projects (HREP) on the Upper Mississippi River system without specific Congressional authorization.
- Current Feasibility Projects with side channel restoration (dredging)
  - **Crains Island** (Open River, miles 103 - 105)
    - Complete Feasibility May 2018, Potentially construct in FY 19/20
  - **Harlow Island** (Open River, miles 144 – 144.5)
    - Complete Feasibility FY19
  - **Piasa & Eagles Nest Islands** (Pool 26, mile 212 – 208)
    - Complete Feasibility Sep 2018.
- POC: Brian Markert, Program Manager: 314-331-8455
- <http://www.mvr.usace.army.mil/Missions/Environmental-Protection-and-Restoration/>



# SMALL DREDGE CONTRACT

- **Carlyle Lake Environmental Dredging Contract**
  - 12-14 Cutterhead Dredge
  - Base + 4 Option Years
  - Feb 2018: Bids Received
  - Mar 2018: Award

POC: Joe Smothers, 618-594-2484



US Army Corps  
of Engineers<sup>®</sup>



# THE END



## Contact Information:

Lance Engle

Dredging Project Manager

St. Louis District

314-865-6343

[lance.engle@usace.army.mil](mailto:lance.engle@usace.army.mil)



US Army Corps  
of Engineers<sup>®</sup>



U.S. ARMY<sup>®</sup>