Olmsted Locks & Dam

Project Update Inland Waterways Users Board (Meeting No. 90)

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Olmsted Bottom Line Up Front

✓ Current Schedule: Ahead of Schedule

Operational Milestone

1 Oct 2022 (80% cert. (PACR))

1 Oct 2018 Scheduled

6 Sep 2018 Actual

Completion Milestone

2026 (80% cert. (PACR))

2021 Scheduled

✓ Current Cost: Under Budget

TEP (Total Estimated Price) = \$2.782B vs. \$3.1B (80% certainty) Savings = \$317M (FY19 Allocation = \$50M)

√ Keys:

1. Efficient funding (annual capability) has allowed the PDT to effectively plan and execute our annual work plan.

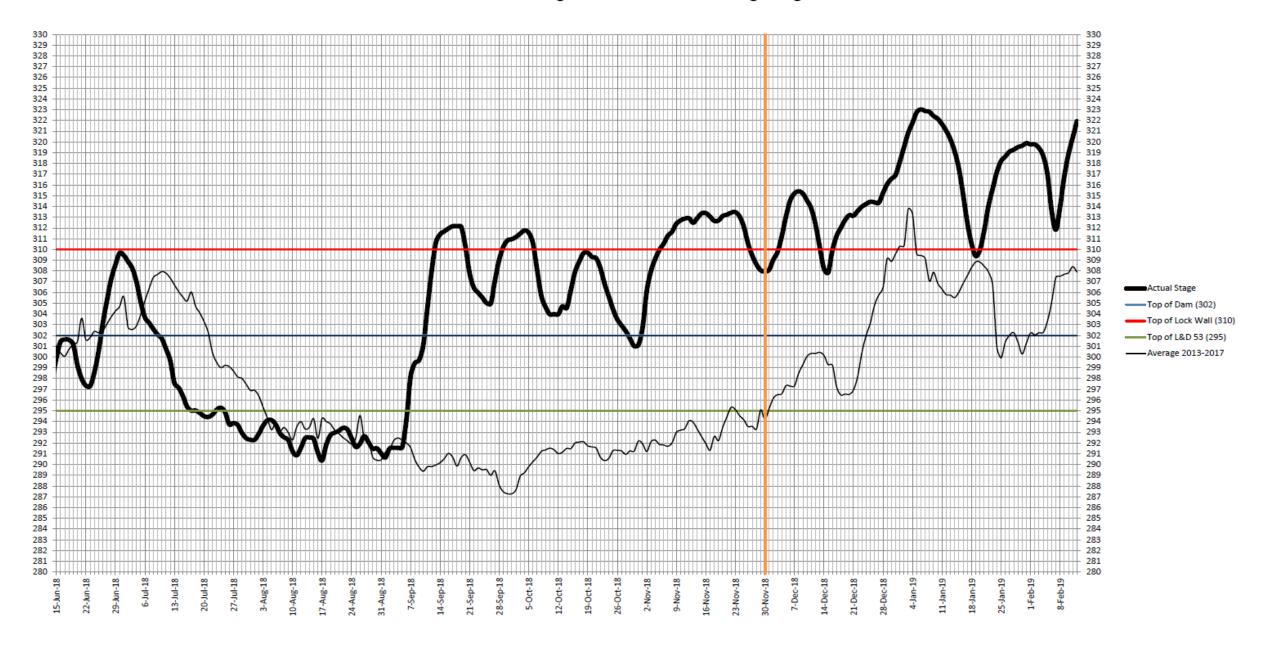
2. Advantageous river conditions have allowed the work to expand beyond the contractual low water season (15 Jun – 30 Nov).











2018 LWS completion items impacted By high water

- Concrete Spall Repair
 - TG Bays and Nav Pass Shells
- Isolation Joint Bracing and Grouting
 - Three locations
- Complete Grouting
 - Several locations
- Left Boat Abutment/Fixed Weir
- U/S Mooring Cells
- Wicket 32 Repair
- L&D 53 Phase I Demo

All these items require Water Elevation control and other Operational requirements to complete









Olmsted Locks and Dam, Ohio River, IL & KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$2,867,296,000
Allocations through FY2014:	\$29,515,929	\$943,838,592	\$861,338,594	\$1,834,693,115
FY15 Allocation:	\$0	\$180,803,500	\$31,906,500	\$212,710,000
FY16 Allocation:	NA	\$227,800,000	\$40,200,000	\$268,000,000
FY17 Allocation:	NA	\$212,470,000	\$37,500,000	\$249,970,000
FY18 Allocation:	NA	\$148,750,000	\$26,250,000	\$175,000,000
FY19 Budget:	NA	\$29,750,000	\$5,250,000	\$ 35,000,000
FY19 Allocation:		\$12,750,000	\$2,250,000	\$ 15,000,000
Total Allocations to Date:	\$29,515,929	\$1,756,162,092	\$1,004,695,094	\$2,790,373,115
Remaining TPC Balance:		\$65,384,452	\$11,528,433	\$76,922,885
Remaining Balance Change From Last Meet	-\$15,000,000			

Note: * Cost and Schedule data reflective of the latest Certified Cost Estimate (01 OCT 2017 price levels) completed May 2018.

Next Certified Cost Estimate (01 OCT 2019 price levels) expected APR 2020.

Remaining TPC Balance is difference between Total Project Cost and Total Allocations to date.

Changes

Funded \$15,000,000 in FY19 Workplan

Funding Overview

\$ 775.0M
\$3,559.0M
\$ 29.5M
\$ 168.5M
\$ 131.0M
\$ 16.0M

Current Status of the Project

- All Damming surfaces in place
- U/S MC's under construction
- L&D 52 marine demo awarded 26 Sep 2018
- L&D 53 Ph I demo progressing

Next Steps

- Complete isolation pile bracing and all remaining grouting
- Demo 53 Marine Ph II
- L&D 52 and 53 Landside demolition and property disposal
- Wicket #32 repair
- Spall repair



Olmsted Locks and Dam, Ohio River, IL & KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Dam	26-Aug-96	28-Jan-04	30-Sep-19	6-Sep-18	31-Mar-20
Wicket Lifter	1-Jan-15	2-Sep-16	21-Dec-17	19-Feb-18	30-Dec-20
Building & Grounds	1-Dec-15	2-Feb-17	28-Sep-18	1-Oct-18	30-Jun-19
Demolition L&D 52	1-Feb-17	26-Sep-18	31-Dec-20	N/A	31-May-21
Demolition L&D 53 (Nav Lane)	15-Oct-16	1-Nov-17	31-Dec-19	N/A	31-Mar-20
River Dikes	12-Feb-15	12-Aug-16	30-Jun-19	30-Jun-19	30-Jun-19

NOTE: Green highlighted dates are actual dates. Red highlighted dates are changes. Wicket Lifter Keen placed in service 27 Apr 2018.



Olmsted Project Time and Cost Scorecard



Expenditures (thru Dec)

Planned (BCWS) \$2.446B Earned (BCWP) \$2.852B Actual (ACWP) \$2.595B

BCWP: Reports the value (based on % complete) of the work performed to date.

Target:

Actual as compared to Planned: (<1% = Green) (>1% and <3% =

Yellow) and (>3% = Red)

Schedule (thru Dec)

(PACR)/(Current)

Project Complete April 2026/Dec 2021
Dam Operational Oct 2022/Oct 2018



Measures: Planned project completion and Dam contract operational dates

Target:

Green: Current = PACR-12 months

Yellow: Current = PACR-11 months to PACR-7 months Red: Current = PACR-6 months to after PACR date



Safety

Green: 1.04 or less Amber: 1.05 - 1.39 Risk: 1.40 +

Contractor	Hours/Rate	FY 17	FY 18	FY 19
AECOM/Alberici J/V	Hours:	1,216,798	862,592	214,730
	# DART:	5	1	0
	Rate:	0.82	0.23	0.00

High Risk Activities quarter

rter

- Dive OperationsCrane Operations
- L&D 52 and 53 Demo

Focus areas for next

- erations Equipment disposition
 - Site restoration

Major Activity Schedule

Activity	Baseline	Current
Spall Repair	TBD	
Isolation Joint Bracing	TBD	
Grouting	TBD	
LBA/Fixed Weir	TBD	
Wicket #32 Repair	TBD	
L&D 53 Phase I Demo	TBD	



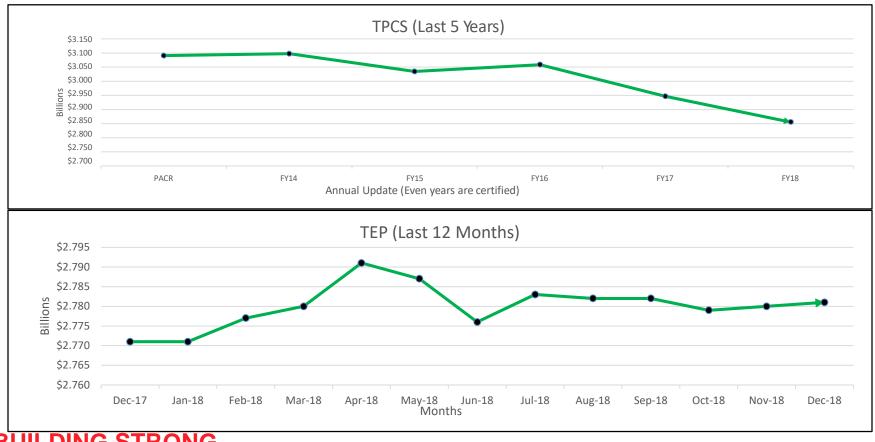
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12 Month & 5 Year Cost Trends



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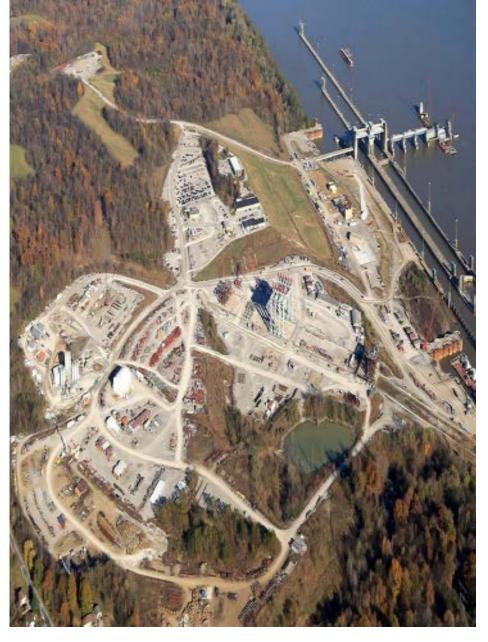
Olmsted Finishing Strong

- ✓ Overcome LWS 18 Impacts
 - Provide Workable River Conditions
 - Coordination with Operations and Industry
- ✓ Remaining work packages on the shelf
 - Landside demolition of L&D 52 and 53
 - 53 Marine Phase II
 - County Road Resurface
 - Site Restoration
- ✓ Equipment Disposition
 - Continue disposition as equipment comes available
 - Reduce cost and offset future programming by returning approximately \$4.4M to date.









November 2017



November 2018

Discussion



