

Inland Waterways Users Board

Meeting No. 82

Lake Charles, Louisiana

Financial Report & Project Summaries

Mr. Joseph Aldridge
USACE Headquarters

February 24, 2017



®

US Army Corps of Engineers
BUILDING STRONG®



FY 17 Status of Trust Fund

(31 January 2017)

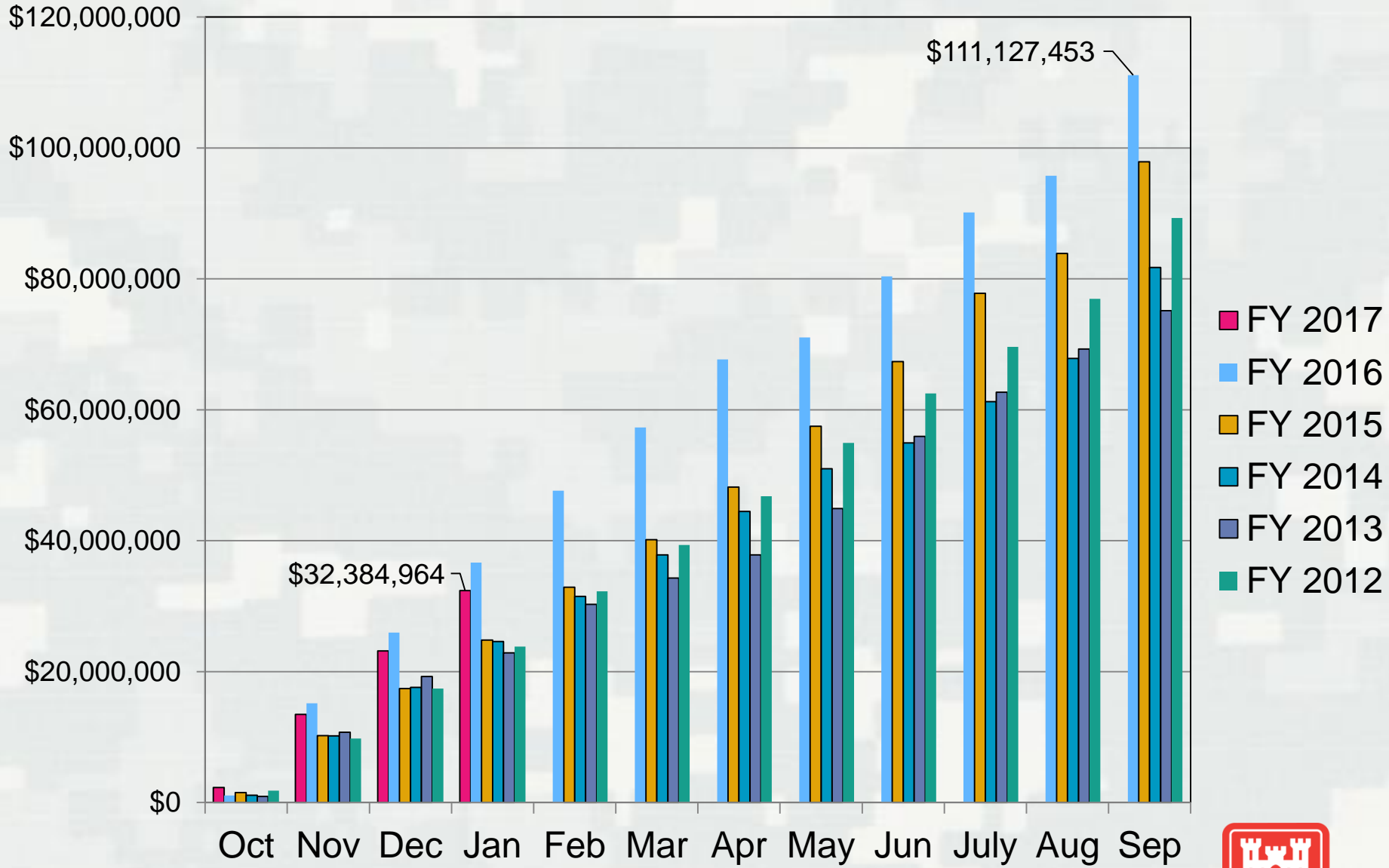
	IWTF	USACE
FY 17 Beginning Balance:	\$57,350,502	\$0
Previous Transfer Authority(SEQ/ATB)	\$0	\$0
Previous Transfer Authority(PTA)	\$0	\$0
Total Beginning Revenue Balance -	\$57,350,502	\$0
Transfers from Corps (8861) to IWTF	\$0	\$0
FY 17 Fuel Tax Revenue:	**\$32,297,000	\$0
FY 17 Interest:	\$87,964	\$0
Total Year To Date Revenue -	\$32,384,964	\$0
Total Revenue Balance -	\$89,735,466	\$0
Transfers from IWTF to Corps (8861)	\$0	\$0
Transfers from Corps (3122) to US Treasury	\$0	\$0
Total Activity -	\$0	\$0
FY17 Available Balance -	\$89,735,466	\$0

Source: IWTF statements from Dept. of Treasury, Bureau of Public Debt.

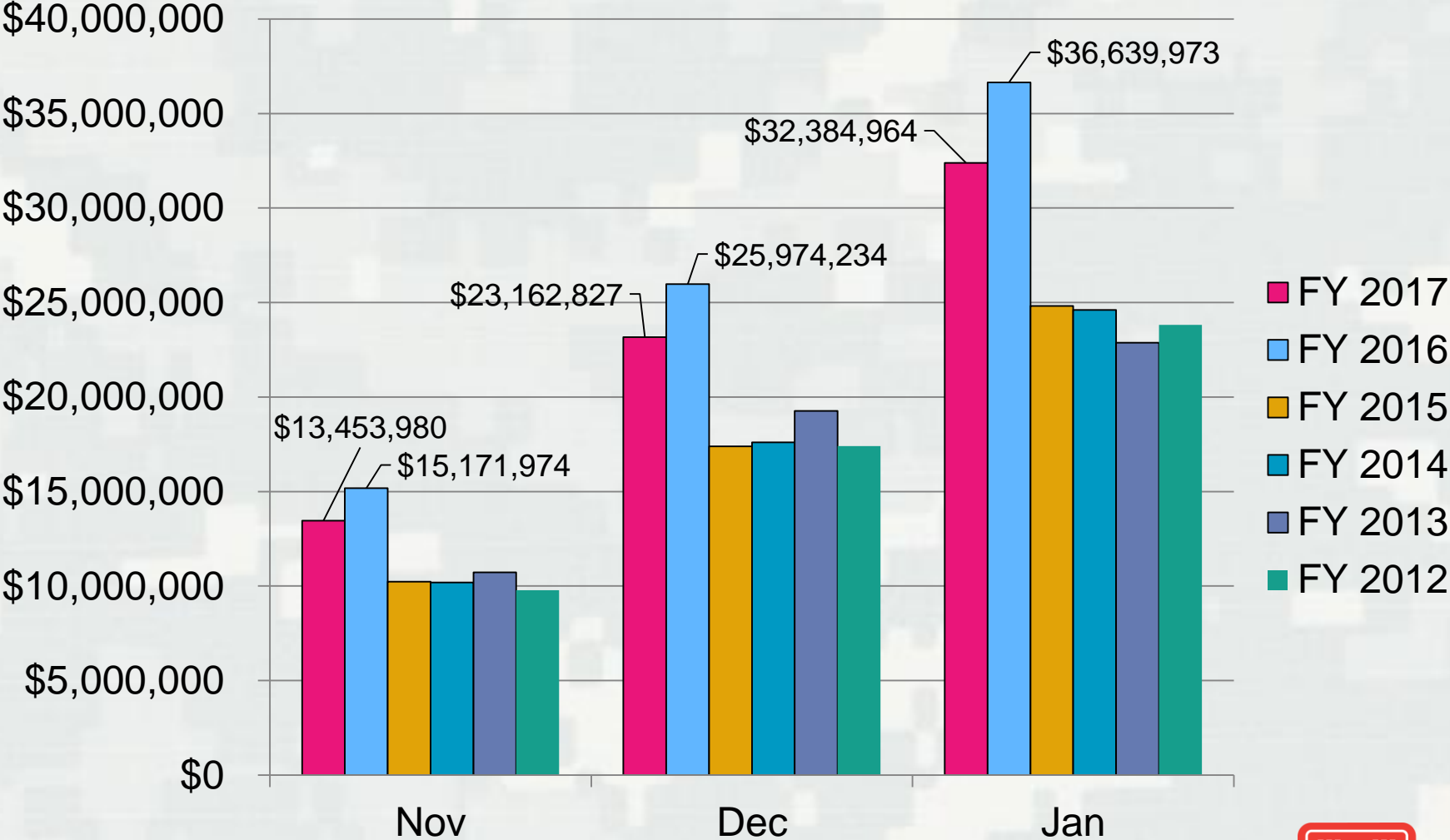
**Amount includes adjustment made by Bureau of Fiscal Service to bring appropriated estimates to actual taxes received.



INLAND WATERWAYS TRUST FUND REVENUE



INLAND WATERWAYS TRUST FUND REVENUE (QUARTER COMPARISON)



IWTF Projects – President’s Budget and Total Allocation

Project	Funding Item	FY2012	¹ FY2013	FY2014	FY2015	FY2016	FY2017
<u>Olmsted</u>	President’s Bud	\$150,000,000	\$144,000,000	\$163,000,000	\$160,000,000	\$180,000,000	\$225,000,000
	Total allocation	\$149,287,623	\$143,712,000 ²	\$165,712,374 ³	\$212,710,000	\$268,000,000	\$155,000,000
<u>Lower Mon</u>	President’s Bud	\$1,000,000	\$36,650,000	\$1,960,000	\$9,032,000	\$52,000,000	\$0
	Total allocation	\$1,158,000	\$23,697,311 ^{2,4}	\$72,673,000	\$55,888,463 ²	\$58,900,000	\$0
<u>Emsworth</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$5,881,785	\$2,000 ²	\$-2,715,701 ²	\$0	\$0
<u>Kentucky L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$1,001.00	\$44,285,500	\$0.00	\$14,700,000 ⁴	\$45,700,000 ⁹	\$0
<u>Chick L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$1,001	(\$3,600)	\$1,815,000 ⁵	\$3,000,000 ⁶	\$29,600,000 ⁹	\$0
<u>Lockport</u>	President’s Bud	\$0	\$3,600,000	\$11,400,000	\$0	\$0	\$0
	Total allocation	\$4,200,000	\$4,990,000	\$28,800,000	\$0	\$1,700,000	\$550,000 ¹⁰
<u>IHNC</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$0	\$0	\$0	\$0	\$0

1. FY13 was under a Continuing Resolution Act
2. Reflects reprogramming from Lower Mon (FY14: \$2M to Olmsted & 2K to Emsworth and FY15 \$2K to Emsworth), and withhold.
3. Reflects FY2015 PB (\$160M) & Funding Pot allocations (\$47.3M - NAV), (\$4.9M - Hydro), McAlpine reprogramming (\$510K)
4. Reflects \$2M reprogrammed from Lower Mon to KY L&D (Nov 2014) & FY2015 NAV Funding Pot allocations (\$12.7M).
5. Reflects withhold.
6. FY2015 NAV Funding Pot allocations (\$3M).
7. ARRA funds erroneously omitted.
8. Reflects \$2K reprogrammed from L&D 27 to Mel Price
9. Reflects \$300K reprogramming from Chick L&D to KY Lock as a result of higher than anticipated bids for DS Cofferdam contract required for risk-based TPCE, FY17 construction contract design activities, and an Economic Update.
10. Reflects \$550k reallocated to Fargo Moorhead Metro (Split 50/50 Trust Fund & Regular Funds)



Project Updates

(Mississippi Valley Division)

- Lockport
- Inner Harbor Navigation Canal (IHNC)



Lockport Pool Major Rehabilitation, Illinois Waterway, IL

	ARRA	CG	IWTF	Total
Total Project Cost:	\$59,372,414	\$76,253,161	\$15,250,000	\$150,875,575
FY13 Allocation:	\$0	\$4,990,000	\$0	\$4,990,000
FY14 Allocation:	\$0	\$14,400,000	\$14,400,000	\$28,800,000
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	\$0	\$850,000	\$850,000	\$1,700,000
FY 17 Budget:	\$0	\$0	\$0	\$0
FY 17 Allocation:	\$0	\$(275,000)	\$(275,000)	\$(550,000)
Remaining Balance:				\$0
Remaining Balance Change From Last Meeting				\$0

Changes

\$550k reallocated to Fargo Moorhead Metro (Split 50/50 Trust Fund & Regular Funds)

Funding Overview

- Original Authorized Cost: \$ 151M
- Sec 902 limit: \$ 163M
- ARRA Funding (FY09-11): \$ 59.4M
- Engineering & Design Cost: \$ 8.4M
- Supervision & Admin Cost: \$ 5.5M
- Mitigation: \$.8M
- Prior to FY14 - 100% CG Funds
- Post FY14 allocations 50-50 CG/IWTF

Current Status of the Project

- Forebay Wall construction **Complete**.

Next Steps

- Physical completion scheduled for **Apr 2017**.
- Financial completion scheduled 1 Sep 2017.



Lockport Pool Major Rehabilitation, Illinois Waterway, IL

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Stage 1C Powerhouse Forebay Wall	(DD-MM-YY) 02-04-12	(DD-MM-YY) 11-09-14	(DD-MM-YY) 31-12-16	(DD-MM-YY) 31-12-16	(DD-MM-YY) 30-09-17



IHNC Lock Replacement, GIWW, LA

	ARRA	CG	IWTF	Total
Total Project Cost:	\$0	\$791,588,500	\$609,837,500	\$1,401,426,000
FY13 Allocation:	\$0	\$0	\$0	\$0
FY14 Allocation:	\$0	\$0	\$0	\$0
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	\$0	\$0	\$0	\$0
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				
	\$719,440,000	\$543,598,000	\$1,263,038,000	\$1,263,038,000
Remaining Balance Change From Last Meeting				\$0
<u>Changes</u>				
<ul style="list-style-type: none"> • Notice of draft report published in Federal Register 6 Jan 2017 • Public Review Period ends on 1 Mar 2017 				

<u>Funding Overview</u>	
• Original Authorized Cost:	\$714M
• Not applicable to Sec 902	
• ARRA Funding (FY09-11):	\$ 0M
• Engineering & Design Cost:	\$39.8M
• Supervision & Admin Cost:	\$ 2.5M
• Mitigation:	\$ 4.0M

<u>Current Status of the Project</u>
<ul style="list-style-type: none"> • USACE performing a review of the interim project accounting. • Continue Lock Replacement GRR.

<u>Next Steps</u>
<ul style="list-style-type: none"> • Continue GRR for lock replacement Scheduled completion June 2018. • MVN will send formal funding request letter for the amount owed by the Port of New Orleans April 2017 to close out the construction project.



IHNC Lock Replacement, GIWW, LA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1- last completed	N/A	N/A	N/A	N/A	N/A
Task 2- Next or ongoing	N/A	N/A	N/A	N/A	N/A
Task 3	N/A	N/A	N/A	N/A	N/A



Project Updates

(Great Lakes and Ohio River Division)

- Olmsted
- Monongahela River Locks 2, 3 and 4
- Emsworth
- Kentucky
- Chickamauga



Olmsted Locks and Dam, Ohio River, IL & KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$3,059,266,000
FY14 Allocation:	\$0	\$124,106,000	\$41,606,000	\$165,712,000
FY15 Allocation:	\$0	\$180,803,500	\$31,906,000	\$212,710,000
FY16 Allocation:	\$0	\$227,800,000	\$40,200,000	\$268,000,000
FY17 Budget:	\$0	\$191,250,000	\$33,750,000	\$225,000,000
FY17 Allocation: 31 Jan 2017	\$0	\$131,750,000	\$23,250,000	\$155,000,000
Remaining Balance:		**\$632,283,550	**\$111,579,450	**\$743,863,000
Remaining Balance Change From Last Meeting				\$0

Note: * Cost and Schedule data reflective of the latest Certified Cost Estimate (01 OCT 2015 price levels) completed in APR 2016.

** Remaining balance does not include projected FY17 Budget allocations.

Changes

None

Funding Overview

- Original Authorized Cost: \$ 775M
- 902 Limit: \$3,559M
- ARRA Funding (FY09-11): \$ 29.5M
- Engineering & Design Cost: \$168.5M
- Supervision & Admin Cost: \$131.0M
- Mitigation: \$ 16.0M

Next Steps

- Complete precast of NP-11
- Complete precast of TW-1A & TW-1B
- Complete precast of SB-5 & SB-6
- Start precast of TW-6A & TW-6B
- Receive TG-5
- Complete high water season maintenance efforts

LBA – Left Boat Abutment
 LWS – Low Water Season (contractually 15 Jun – 30 Nov)
 NP – Navigable Pass
 PB – Paving Block
 RBA – Right Boat Abutment
 SB – Service Bridge
 TG – Tainter Gates
 TW – Training Wall

Current Status of the Project

- Two major shell elements remain (NP-11 & NP-12A)
- Positioned for early start to 2017 LWS
- River Dike No. 4 Complete (TO No. 1)
- River Dike Nos. 1, 2, and 3 Underway (TO No. 2)
- Service Mound Buildings contract awarded
- Wicket Lifter on schedule for Dec/2017 delivery



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	1-Oct-18	31-Mar-20
Wicket Lifter	1-Jan-15	2-Sep-16	13-Feb-18	14-Feb-18	30-Jun-18
Building & Grounds	1-Dec-15	2-Feb-17	30-Aug-18	1-Sep-18	31-Jan-19
Demolition L&D 52	1-Feb-17	1-Jul-19	1-Aug-21	N.A.	31-Dec-21
Demolition L&D 53	15-Oct-16	1-Nov-17	1-Dec-19	N.A.	30-Mar-20
River Dikes	12-Feb-15	12-Aug-16	31-Aug-21	1-Oct-21	31-Dec-21

NOTE: Green highlighted dates are actual dates.
Yellow highlighted dates are changes.



Locks and Dams 2, 3, and 4, Monongahela River, PA

Current Project Estimate: \$1.22B* (\$2.733B)	ARRA	CG	IWTF	Total
FY13 Allocation:	\$1,510,007	\$11,093,652	\$11,093,652	\$23,697,311
FY14 Allocation:	\$0	\$36,336,500	\$36,336,500	\$72,673,000
FY15 Allocation:	(\$141,537)	\$28,015,000	\$28,015,000	\$55,888,463
FY16 Allocation:	\$0	\$29,450,000	\$29,450,000	\$58,900,000
FY17 Budget:	NA	\$0	\$0	\$0
Remaining Balance:		\$237,228,750	\$237,228,750	\$474,457,500
Remaining Balance Change From Last Meeting:				\$0

No Changes

Funding Overview

- Original Authorized Cost: \$556M
- 902 Limit: \$1.76B
- ARRA Funding (FY09-FY15): \$68.3M
- Engineering & Design Cost: \$603M**
- Supervision & Admin Cost: \$207M
- Mitigation: \$12M
- Fully Funded Estimate: \$2.733B

Next Steps

- Recertification of total project cost and schedule – 2017
- Preparing dredging package for Award – FY17 (**Work Plan**)
- Award RCC Option 1 & RCC Option 2 – FY17 (Work Plan)

Current Status of the Project

- Charleroi M22 – M27 Construction – On schedule
- Charleroi RCC Construction – On schedule

* \$1.22B Excludes Charleroi Land Chamber & Port Perry Railroad Bridge Relocation

** \$603M includes all Engineering & Engineering During Construction



Locks and Dams 2, 3, and 4, Monongahela River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete *2	Project Benefits*3	Capitalized Cost Closeout*3
Charleroi River Wall	1-Oct-95	27-Sep-04	30-May-16	2023	2025
Charleroi Emptying Basin	1-Oct-95	30-Sep-13	11-Nov-15	2023	2025
Charleroi River Chamber (M22-M27)	1-Oct-95	15-Aug-14	2019 S	2023	2025
Charleroi Dam Stilling Basin	1-Oct-95	FY 2018 S	FY 2021 S	2023	2025
Charleroi River Chamber Completion	1-Oct-95	16-Sep-15	FY 2023 S	2023	2025
L/D 3 Removal	2020	2021 S	FY 2023 S	2023	2025
Dredging	1-Oct-95	2017 S	FY 2022 S	2023	2025
Municipal Relocations *1	1-Oct-95	Multiple	Multiple	NA	2025

- * 1: To complete all municipal relocations, multiple relocation agreements are required.
- * 2: Dates are achievable based on the most efficient funding profile.
- * 3: Project benefit and close out dates are based on the most efficient funding profile & breaching of Dam 3. Early contract completion for Dam 3 removal extends into 2023.
- 4: River Chamber Completion (RCC) Option 1 and Option 2 are planned to be awarded in FY 2017, if work plan funding is available.
- 5: Charleroi M22-M27 Construction on schedule.

Actual

"S" = Scheduled



Emsworth Locks & Dam, Ohio River, PA

	ARRA	CG	IWTF	Total
Total Project Cost:				\$160,000,000
FY13 Allocation:	\$403,215	\$5,061,070	\$417,500	\$5,881,785
FY14 Allocation:	\$0	\$3,983,912	-\$3,981,912	\$2,000
FY15 Allocation:	-\$2,717,701	\$1,000	\$1,000	-\$2,715,701
FY16 Allocation:	\$0	\$0	\$0	\$0
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:		\$3,533,324	\$3,533,324	*\$7,066,648
Remaining Balance Change From Last Meeting				\$0

*Any remaining IWTF dollars will be reallocated/transferred to other IWTF requirements and will result in a reduced draw on the IWTF, which will be reflected as an adjustment in a future apportionment.

No Changes

Funding Summary

- Original Authorized Cost: \$ 160M
- 902 Limit: N/A*
- Wedge Funding (FY04-05): \$ 3.5M
- ARRA Funding (FY09-FY13): \$ 30.9M
- Engineering & Design Cost: \$ 14.1M**
- Supervision & Admin Cost : \$ 8.6M
- Mitigation: \$ 0.0M

* Actual project cost will be less than Approved Cost

** \$14.1M includes ALL Engineering & Engineering During Construction

Current Status of the Project

- PDT working with RMC Risk Cadre on Post Implementation Evaluation (PIE)
- PDT evaluating emergency bulkheads for deterioration due to Zebra Mussels

Next Steps

- Project will be fiscally complete in **FY18**



BUILDING STRONG®

Emsworth Locks & Dam, Ohio River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Back Channel Right Abutment	31-Jan-09	31-Aug-09	31-Dec-10	1-Jan-11	31-Oct-11
Main Channel Gate & Scour Rehab	1-Jun-07	30-Jul-08	31-Jan-14	1-Feb-14	31-Jul-15
Main Channel Service Bridge Rehab	31-Aug-10	13-Jan-12	26-May-14	27-May-14	30-Sep-14
Back Channel Scour Protection	30-Sep-09	31-Mar-10	31-Oct-14	1-Nov-14	31-Jul-15
Back Channel Dam Under Apron Grouting, Gate Bays 12-14	01-Feb-15	31-Jul-15	4-Nov-15	4-Nov-15	31-Jan-16



Kentucky Locks & Dam, Tennessee River, KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$1,254,485,000
FY13 Allocation:	\$442,002	\$44,442,700	-\$137,200	\$44,285,500
FY14 Allocation:	\$0	\$0	\$0	\$0
FY15 Allocation:	\$0	\$7,350,000	\$7,350,000	\$14,700,000
FY16 Allocation:	\$0	\$22,850,000	\$22,850,000	\$45,700,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$782,595,902
Remaining Balance Change From Last Meeting				\$380,263,000

Note: * Project cost data is reflective of **03 Jan 17 certified cost** at a price level adjustment (OCT 17 \$'s), Fully Funded, **2024** completion

Changes

- **The project's first risk based total project cost estimate was Certified at \$1,254,485,000 (FY2018 price level) that includes inflation for a 2024 completion date.**

Funding Overview

- **Authorized Cost: \$796,318,000 (Oct16 \$)**
- **902 Limit: \$819,736,000 (Oct15 \$)**
- **ARRA (FY09-13): \$88,833,628**
- **Engineering & Design Cost: \$109,461,000 (Thru FY16)**
- **Supervision & Admin Cost: \$18,015,000 (Thru FY16)**
- **Mitigation Cost: TBD, alternative analysis on hold pending additional funding.**

Current Status of the Project

- **U/S Lock Monolith Contract was completed in early February 2017.**
- **Risk based total project cost estimate (TPCE) Certified by USACE Walla Walla Cost Engineering Center of Expertise (MCX) on 3 Jan 2017.**

Next Steps

- **Progress Downstream Cofferdam construction. Exercise \$27.5M in Options by 31 May 17 expiration date.**
- **Progress Economic Update**
- **Award Site, Demolition, and Utilities construction contract by 30 Sep 17.**



Kentucky Locks & Dam, Tennessee River, KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete*	Project Benefits	Capitalized Cost Closeout
Task 1 – HWY / RR Superstructures	01-Oct-99	19-Sep-05	24-May-12		
Task 2 – Upstream Lock Monoliths (all Options)	01-Oct-00	29-Jan-10	30-Dec-16		
Task 3 – Upstream Miter Gate Fabrication	01-Oct-02	30-Sep-13	1-Mar-16		
Task 4 – Downstream Cofferdam	01-Oct-00	30-Sep-16	30-Sep-19		
Task 5 – Site, Demolition, & Utilities	01-Oct-00	30-Sep-17	30-Nov-18		
Task 6 – Downstream Lock Excavation	01-Oct-00	30-Sep-18	30-Mar-20		
Task 7 – Downstream Lock	01-Oct-00	30-Sep-19	12-Mar-24	12-Mar-24**	
Task 8 – Approach Walls	01-Oct-02	30-Sep-21	21-Nov-23		

*Dates are achievable based on the most efficient funding profile.

**Based on 3 Jan 17 Certified cost estimate Cost and Schedule Risk Assessment, the project has an 80% confidence level of being completed by 2028. Three of the four years of this schedule contingency is due to the risk of not receiving efficient funding.



BUILDING STRONG®

Chickamauga Lock & Dam, Tennessee River, TN

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$754,678,000
FY13 Allocation:	\$0	\$223,900	-\$227,500	-\$3,600
FY14 Allocation:	\$0	\$907,500	\$907,500	\$1,815,000
FY15 Allocation:	\$0	\$1,500,000	\$1,500,000	\$3,000,000
FY16 Allocation:	\$0	\$14,800,000	\$14,800,000	\$29,600,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$539,259,000
Remaining Balance Change From Last Meeting				\$0

Note: *Cost & Schedule data reflect the FY2017 risked based total project cost update, Fully Funded, **assuming 2024 completion.**

Changes

- **None**

Funding Overview

- **Authorized Cost: \$428,729,000 (Oct 16 \$)**
- **902 Limit: \$482,162,000 (Oct 16 \$)**
- **ARRA Funds: \$49,330,043 (total FY09-12)**
- **Engineering & Design Cost: \$44,934,000 (thru FY16)**
- **Supervision & Admin Cost: \$6,249,000 (thru FY16)**
- **Mitigation Cost: TBD**

Current Status of the Project

- **Developing plans for FY17 award of Lock Chamber (LC) Contract.**
- **Lock Excavation (LE) contractor anticipates initial unwatering the cofferdam in Feb / Mar timeframe.**

Next Steps

- **Exercise remaining LE Options (\$7.25M) by 31 May 2017 expiration date, pending funding**
- **Award LC contract Sep '17; pending funding**
- **Anticipate PACR submission – Pending briefing to / approval from HQUSACE Change Control Board (CCB)**



Chickamauga Lock & Dam, Tennessee River, TN

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete *	Project Benefits**	Capitalized Cost Closeout
Task 1 – Approach Walls Fabrication	30-Mar-04	05-Apr-10	08-Mar-13		
Task 2 – Cofferdam Stabilization	31-Sep-05	25-Sep-15	18-Jul-16		
Task 3 – Lock Excavation	31-Sep-05	Sept 2016	Sept 2018		
Task 4 – Lock Chamber	11-Aug-05	Sept 2017	Dec 2023	Dec 2023	
Task 5 – Site Work and Decommission Existing Lock	11-Aug-05	Sept 2020	Sept 2024		
Task 6 – Approach Walls	11-Aug-05	Sept 2021	Dec 2023		

*Dates are achievable based on the most efficient funding profile.

**Based on June 2016 Certified cost estimate Cost and Schedule Risk Assessment, the project has an 80% confidence level of being completed by 2028. Two of the four years of this schedule contingency is due to the risk of not receiving efficient funding.



Questions

