

Projects Update

Presented by Blake Kettler Technical Services Manager

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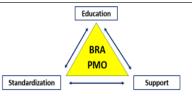
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Project Management Office

Strategic Plan IV.b.1. <u>PMO Mission Statement</u> To support the BRA mission by developing and implementingbest practice methodologies to train, equip and enable project managers to deliver projects that exceed stakeholder expectations.



Standardization: establishing and maintaining policies, procedures and templates to improve BRA project delivery

Education: provide training and knowledge dissemination to benefit BRA project delivery staff

Support: assist project delivery staff to implement and execute project management methods

Objectives

- Collaborate with the BRA team to develop project leadership methodology to standardize and improve project delivery
- Support BRA project delivery staff with training and implementation assistance
- Facilitate communication across projects to standardize approach and improve efficiency
- Provide project scheduling support across BRA departments for planning, uniformity and accuracy
- Develop consistency and efficiency to deliver projects within scope, schedule and budget
- Identify industry best practices and standards to improve BRA project delivery
- Develop methods to measure PMO success

PMO Enablers

- Leadership and support has been critical
- MT's "buy-in" of process improvement has given credibility to the "cause"
- Technical knowledge and customer-service attitude has made the PMO truly supportive
- Collaborative spirit of BRA staff and project delivery teams' input to the PMO

Support

- Developed and maintain BRA Portfolio Schedule; tracks all CIP/OP projects at the task level on one schedule; enables accurate historical view of project delivery task completion and reliable forecast of future project task planning
- Developed and maintain BRA Project Planner: higher level view of BRA projects broken down by Fiscal Quarter; enables project budget planning; resource planning and project flow comparison
- Worked with CIPA to develop Project Prioritization Process for FY 2023 Annual Operation Plan
- Developed Project Update system to keep BRA leadership and the public informed
- Routinely work with project managers in various ways to answer questions and provide support

Standardization

- Developing checklists, templates and processes for project delivery teams to reduce workload and improve standardization
- Facilitating crossflow of information between Basins and departments to increase corporate knowledge and standardization
- Developing Project Leadership Handbook for project team education and promote standardization

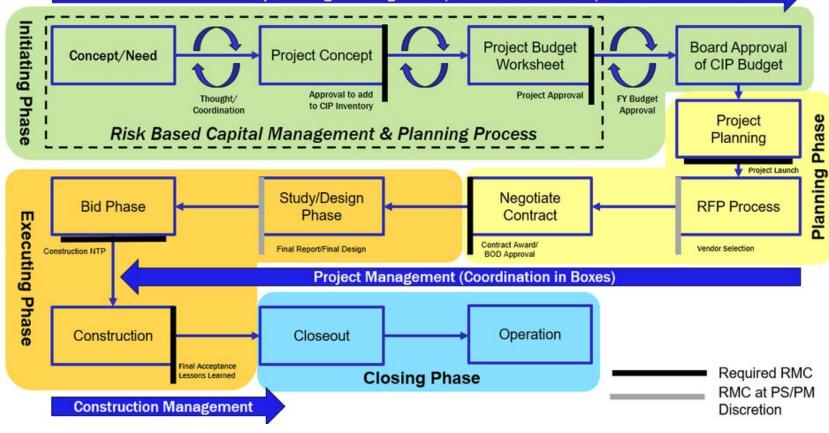
Education

- Conduct monthly project management training sessions focus on one project delivery topic; 50+ invitees
- Periodic "one-pagers" on a BRA project delivery step for training and standardization
- Developing a Lessons Learned Library to develop corporate knowledge and provide easy access for reference by other project teams
- Small group training as required for new PMs or PMs entering a new phase of project delivery
- Revamped Project Leadership Portal for easy/intuitive access to info
- Developing a collaborative effort with other authorities and districts



Assessment/Design/Construction

Capital Budget Management (Coordination on Lines)

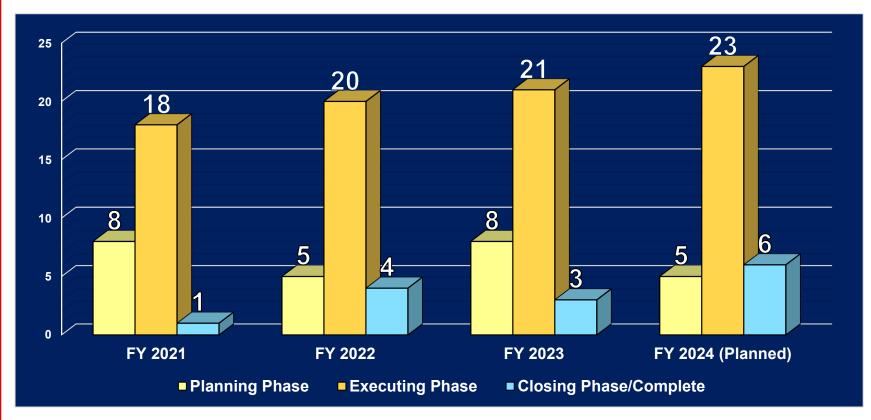


Meeting Date: September 26, 2022

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Active Projects Performance



Meeting Date: September 26, 2022



BRA Active Project Status

		Droject Diagning (DED) Selection (Contract Disc		_			Deci	an Dh					-											_			
		Project Planning/RFP/Selection/Contract Phase				TD 6		ign Pha		tract					_										\vdash		
		Evaluation/Study Phase			H			tructio																			
		Design/Bid Phase/Construction Contract	Construction Phase								_	_			_				<u>+</u>			┿──┥					
				Y20			FY21			FY22			FY2				Y24			FY25			FY2		L	FY2	
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BW		Property Master Plan																									
BW	WS	Integrated Water Resources Plan																									
BW		Risk Based Capital Planning & Management Support																									
BW	ES	Brazos Water Snake Study																									
BW	WS	Brazos River Alluvium Study																									
CO	ES	Environmental Services Building																									
CO	ES	Mussel Study																									
CB	BE	Belhouse Drought Preparedness																									
CB	WCR	WCRRWL Copper Ion Generator																									
CB	EW	EWCRWS Expansion Phase 2																									
CB	EW	EWC WTP Intake Slope Stabilization																									
CB	WCR	WCRRWL Phase 3 Pumps/Pipeline Evaluation																									
CB	WH	Lake Whitney Reallocation Study																									
LB	AC	Allens Creek Reservoir																									
LB	LL	Tainter Gate Replacement & Improvements																									
LB	LL	Hydrostatic Relief System Assessment & Replacement																									
LB	LL	Park 5 Access Pier & Loading Dock																									
LB		Lake Limestone Fiber Optic Cable Upgrade																						+			
LB	LL	Low Flow Facility Modification & Improvements																									
LB	LL	Administrative Complex Architectural Assessment, Design & Replacement																									
UB	LG	Road Repairs																						-			
UB	LG	Reinforced Concrete Components										<u> </u>															
UB		Trolley Replacement																									
UB		Low Flow Facilities																									
UB		Two Slip Boathouse Replacement																						-			
UB		Hunter Park Bulkhead Extention																						-			
UB		Workspace Needs Assessment																									
UB		Electric Vulnerability Assessment																						-			
UB		Hearth Stability Analysis																						-	\square		+
UB		CAASLE (Concrete Assessment & Service Life Extension)																	-		-		-+	+		-+	
UB		Operating Pier Trash Rack Replacement																					-+	+	\vdash	-+	+
UB		Spillway Pump & Piping																				+	-+	+	\vdash	-+	
UB		Flow Control Gate Replacement																					-+	+	\vdash	-+	
UB		Recreational Development																									
UB		COC Recoating***																									
UB		Bay 9 Transition Beam Leak Remediation				-+	-		-																		
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Planned Agenda Items Upcoming

- <u>CB-WCR-WCRRWL Copper Ion Generator</u>-Construction Contract Approval
- <u>LB-LL-Park 5 Access Pier and Park Upgrades</u>-Construction Contract Approval
- <u>UB-PK-Spillway Pump and Piping</u>
 Construction Contract Approval



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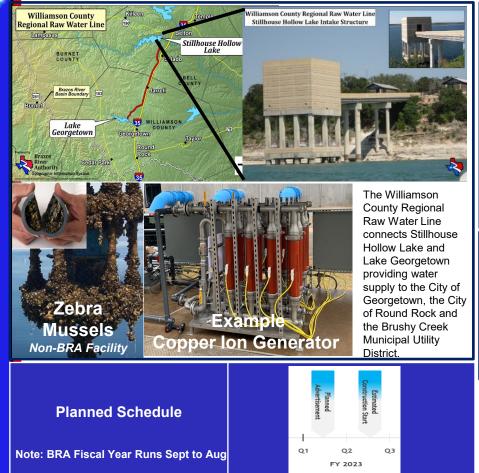
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WCRRWL Copper Ion Generator



<u>The Project</u>

The purpose of this project is to design and install a copper ion generator at the Stillhouse Hollow Lake intake structure to control zebra mussels. Zebra Mussels are an invasive species that colonize and damage water supply equipment. Zebra Mussels were discovered in Stillhouse Hollow Lake and Lake Georgetown in 2016 and 2017, respectively. A 2019 study evaluated solutions to control zebra mussels for the Williamson County Regional Raw Water Line (WCRRWL) and its associated intake structure at Stillhouse Hollow Lake. The primary recommendation from that study is the installation of a copper ion generator to allow for dosing of a copper solution into the feed pipes at each of the intake screens. The increased copper concentration will inhibit veliger settlement on pump station components and destroy existing mussels. The project will protect this critical infrastructure; reduce maintenance labor and costs; and increase reliability of water transportation to meet customer needs.

Current Project Status 8/12/2022

- The 100% design documents are complete
- Design has been submitted to the United States Army Corps of Engineers for approval. Awaiting timeline for Corps review
- BRA is currently preparing the Request for Bids package

Budget Summary						
FY 2022 Budget	\$1,592,000					
FY 2022 Project Expenses (As of 7/31/2022)	\$137,606					



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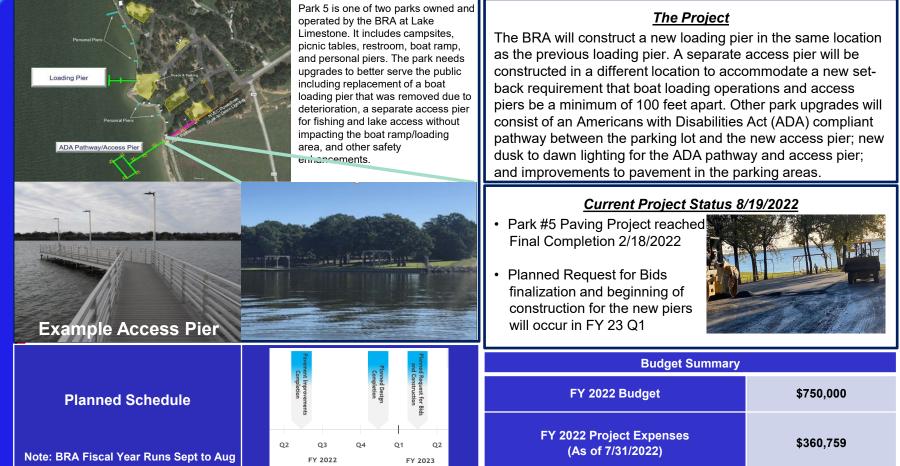
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Lake Limestone <u>Park 5 Access Pier, Loading</u> Pier and Park Upgrades





Possum Kingdom Spillway Pump and Piping Project

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Morris Sheppard

The Morris Sheppard Dam spillway section consists of nine bear-trap gates that pass floodwater downstream. To assist with gate maintenance activities during low reservoir conditions, a spillway pump and piping system was utilized to supply pressurized water into the underside of the gates to assist the gates for maintenance operations. Due to modifications to the spillway piping in the dam (as part of a previous project), the spillway pump and piping system was disconnected, and some components removed.

Fish Hatchery

The piping system also provides both cold and warm water to the Texas Parks and Wildlife Department (TPWD) Possum Kingdom Fish Hatchery located downstream of the dam. This is accomplished through two waterlines that run from the Powerhouse to the fish hatchery.

Spillway Pump

Spillway Piping

The Project

The purpose of the Spillway Pump and Piping Project is to 1) perform a condition assessment of the spillway pump and piping system and develop recommendations to bring the system to fully functional operation and 2) design the approved repairs, modifications and improvements to the system. A successful project will provide BRA's RSMU maintenance department the ability to test gates and ensure they are operable prior to bringing back into service and to ensure a continued supply of cold and warm water to the TPWD Fish Hatchery.

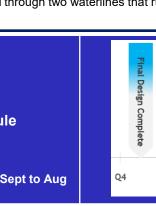
Current Project Status 8/31/2022

- Design is at 95% completion
- TCEQ has reviewed and approved
- Planned Request for Bids advertisement is FY23 Q1
- Planned request for Board of Director approval November 2022
- Planned construction Notice to Proceed FY23 Q2

Budget Summary						
FY 2022 Budget	\$450,000					
FY 2022 Project Expenses (As of 7/31/2022)	\$139,326					

Planned Schedule

Note: BRA Fiscal Year Runs Sept to Aug









Brazos Authority