

THE PLANNING ASSISTANCE TO STATES PLAYBOOK

Lacey Thomason
National PAS PgM

<https://www.usace.army.mil/Missions/Civil-Works/Technical-Assistance/Planning-Assistance/>



US Army Corps
of Engineers®





U.S. ARMY

CUI

AGENDA

2



- Authority & Program Guidelines
- Resources
- PAS Funding
- Project Examples
- Updates
- Questions/Discussion

CUI



U.S. ARMY

PLANNING ASSISTANCE TO STATES (PAS) HQ & IWR TEAM



HQ Champion –
Mr. Eric Bush, Chief of
Planning and Policy Division



HQ Proponents
Joe Redican



Zia Burns



HQ Remaining
Items Integrator –
Andrea Day



National
PAS PgM–
Lacey Thomason



National Deputy
PAS PgM –
Kaely Megaro



IWR PAS
Program Analyst –
Lesley Samb

PAS AUTHORITY



U.S. ARMY



US Army Corps
of Engineers®



PAS PROGRAM BACKGROUND



Authority – Section 22, WRDA 1974, as amended

Purpose – Make USACE expertise available for efforts pertaining to planning for water and related resources.

Planning Assistance to States (PAS). Section 22 of WRDA 1974, as amended, (42 U.S.C. 1962d-16) authorizes two types of studies: comprehensive plans and technical assistance. USACE is authorized to cooperate with **any state, a group of two or more states, or non-Federal interest working with a state in the preparation of comprehensive plans for the development, utilization, and conservation of the water and related resources of drainage basins, watersheds, or ecosystems, including plans to comprehensively address water resources challenges** located within or across the boundaries of such state(s) and to submit to Congress reports and recommendations with respect to appropriate Federal participation in carrying out such plans.

At the request of a governmental agency or non-Federal interest, the Secretary may provide technical assistance to such governmental agency or non-Federal interest in managing water resources.

Section 156, WRDA 2020. In carrying out section 22 of WRDA 1974 (42 U.S.C. 1962d-16), the Secretary shall provide **equal priority for all mission areas of the Corps of Engineers, including water supply and water conservation.**

Example PAS Projects

Floodplain delineation
Flood hazard evaluation
Comprehensive floodplain management
Storm water management
Flood risk reduction
Stream and Wetland Assessments
Coastal assessments
Watershed planning
Water Supply
Water Quality
Environmental Restoration
Fish and Wildlife



WHO CAN PARTICIPATE?

- A state;
- Group of states;
- Local government;
- Non-federal public bodies;
- Regional coalition of governmental entities;
- Federally-recognized Indian Tribes; *
- Specified territories; *
 - Puerto Rico, Virgin Islands, Guam, American Samoa, Northern Mariana Islands
- Not for profits
 - The not-for-profit entity must provide a letter from the affected local government consenting to the provision of such Section 22 assistance to the nonprofit entity

** Section 8119 WRDA 2022 Fee Waiver for Economically Disadvantaged Communities as defined under Section 160 of WRDA2020*

** Section 1156 Tribal Cost Share Waiver (up to \$658k as of 2025)*



TYPES OF AGREEMENTS

Comprehensive Water Resources Planning

- Planning for the development, utilization, and conservation of the water and related resources of drainage basins, watersheds, or ecosystems, including plans to comprehensively address water resources challenges such as the state water plan.
- Typical water resources problems and opportunities included in comprehensive state water resource planning efforts include: flood risk management, water supply, water conservation, environmental restoration, water quality, hydropower, erosion, navigation, fish and wildlife, cultural resources, and environmental resources.
- Cost-share: 50% federal/50% non-federal
 - Non-federal voluntary contributions in excess of cost-share requirement
 - Non-federal share may include in-kind services for Comprehensive Plans

Technical Assistance

- Technical work related to management of state water resources in support of a water resources management plan, related land resources development plan or other water resources management related planning documents.
- Coastal assessments for natural and nature-based infrastructure, stream and wetland assessments, sewer and stormwater infrastructure inventories and databases, coast-shed and watershed planning, flood risk assessments, GIS mapping, water supply demands, etc.
- Cost-share: 50% federal/50% non-federal
 - Non-federal voluntary contributions in excess of cost-share requirement
 - In-Kind Services not permitted for Technical Assistance



U.S. ARMY

ADDITIONAL CONSIDERATIONS

8



PAS Project Should:

- Transition to the appropriate GI/CAP study program if a USACE construction project is identified.
- Provide assistance and outcomes to support implementation by the non-federal sponsor.

PAS Should Limit:

- Data collection
- Equipment purchase

PAS Projects Should **NOT:**

- Augment or duplicate efforts that should be or are being accomplished under another authority.
- Include site-specific structural designs.
- Include construction specifications.
- Lead to USACE implementation.
- Accept Federal grant funds as non-federal cost share, except where correctly documented.
- Allow work-in-kind on technical assistance projects

General Reminders:

- If the assistance requested could be accomplished under multiple USACE authorities, consult with the Division to determine the most appropriate path forward.
- If additional personnel resources are needed, first work with the Division to seek assistance from other Districts, then consider use of a contractor if appropriate expertise and resources are not available within USACE.
- Implementation of any recommendations resulting from the PAS project will be the responsibility of the requestor.
- Large projects from a cost or duration standpoint should be phased

RESOURCES



U.S. ARMY



US Army Corps
of Engineers®



U.S. ARMY

WHERE TO GO FOR HELP

10



PAS Office Hours: Typically, every other week. No set agenda. Come to get updates on the program and ask questions. [Notes from Office Hours](#) are posted on Teams so even if you cannot attend you can see what questions were asked or program updates shared.

- Tuesdays from 3-4 ET
- Wednesdays from 11-12 ET

Emails from National Program Management Team – Make sure to email Lacey and get on the PAS Distribution list. Lacey or Kaely often send reminders, tips, and program updates via email.

Quarterly PAS Community Webinars: These calls are typically held every quarter and will review upcoming deadlines, status of program funding, updates to RI-TACOd, and any other program information or news. To get invites ensure you are on the PAS Distribution list.



PAS RESOURCES

1. PAS Authority

- a) The authority for Planning Assistance to States is provided for by Section 22 of WRDA 1974, as amended (42 U.S.C. 1962d-16)
<https://www.law.cornell.edu/uscode/text/42/1962d-16>
- b) Note where the law refers to Plan, which is identified in subsection (a)(1), for the differences between Comprehensive Plans and Technical Assistance requirements. Note the definition of “State”
- c) “Tribes” are defined in 25 U.S.C 5304
- d) The “Section 8119 fee waiver” was provided for in Section 8119 WRDA 2022, and is included in the law as subsection (f)(2)

2. PAS Policy and Guidance

- a) Supplemental Guidance Memos are found on the PAS LOA website: https://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/templates_pas/
- b) Planning Toolbox: PAS section under Partnering with the Corps: Assistance to States, Tribes & Communities. (includes 8119 FAQ, LOI template and Section 160)
<https://planning.erdc.dren.mil/toolbox/processes.cfm?Id=316&Option=Partnering%20with%20the%20Corps>

3. PAS Agreements

- a) https://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/templates_pas/

4. Online Tools

- a) HQ USACE PAS Website - <https://www.usace.army.mil/Missions/Civil-Works/Technical-Assistance/Planning-Assistance/>
- b) PAS MS Teams Chanel (if you are not on it please request an access)



U.S. ARMY



https://usace.dps.mil/:x:/r/sites/USACE-IWR-COLLAB-SJ/_layouts/15/Doc.aspx?sourcedoc=%7BA7A23643-D9A6-44D5-8149-B81ABFE146A3%7D&file=FRM-SJ-FPMS-PAS-Financial%20POCs%20Updated%2024OCT2024.xlsx&action=default&mobileredirect=true

			FRM-SJ-FPMS-PAS and Finanical Points of Contact										
			NFRMP							FPMS		PAS*	
DIVIS 	Spelled o name 	DISTR 	Flood Risk Mana 	Flood Risk Mana Office/Org 	SJ Coordinators 	SJ Coordinat Office/Org 	State Lea 	Support States 	Financial POC (brings \$ into district, sets up labor returns funds) 	FPMS PgM 	FPMS Pgt Office/Org 	PAS PgM* 	PAS PgM Office/C 
IWR/HQ			Jennifer Dunn	IWR	Katherine Rowden, Jennifer Dunn	IWR			Lesley Samb	Stephanie Bray	HQ, IWR	Lacey Thomason	IWR
LRD	Lakes and Rivers Division		~~Scott Dahms~~ Andrea Carson	Operations	Andrea Carson	Planning	NY, MI, WV, OH, IN, KY, TN, AL		Jennifer Murray	Andrea Carson (cc Roscoe Bright)	Planning	Eric Merriam (cc Roscoe Bright)	Planning
	Buffalo	LRB	Laura Ortiz	Planning	Laura Ortiz	Planning	NY	OH , PA	Jamie Soule	Madeleine Dewey	Planning	Jen Brancho	
	Chicago	LRC	Kaitlyn McClain	Planning	Kira Baltutis	H&H		IL	Sidney Franco, Alt. Joshua Nickel	Akilah Martin (cc Kaitlyn McClain & Kira Baltutis)	Planning	Akilah Martin (cc: Kaitlyn McClain)	Planning
					Kira Baltutis	Planning		IN					
					Ryan Van Camp	H&H		WI					
	Detroit	LRE	Garrett Ray	Planning	Garrett Ray (Emily Marcil supporting)	Planning	MI	IN, MN, WI	Charles Gould alts: Lesley Akre, Stacey Swanson, Cameron Hairston for PAS, FRM, FPMS, and SJ	Garrett Ray	Planning	Gregory Mausolf	Planning
	Huntington	LRH	Kenneth Woodard	Planning	JoAnn Combs/Hannah Parlock	Planning	WV		Jennifer Murray (alternate Todd Scholl)	Sarah Glass(255) JoAnn Combs (251) (cc Ken Woodard)	Planning	Elizabeth Johnson	Planning
					JoAnn Combs/Elizabeth Johnson	Planning	OH						
					Jared Thomas	Planning		KY					
					Jared Thomas			NC					
					KC Hoard	Sarah Glass	Planning		VA				
Louisville	LRL	Nate Moulder	Planning	Brandon Brummett	Outreach	IN, KY	OH, IL	Catherine Rosenfeld / Adam Coe	Brandon Brummett	Planning	Ken Meffert	Planning	



U.S. ARMY

NEW PAS MODEL AGREEMENTS POSTED DEC 2025

13



<https://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/#Other%20Agreements%20&%20Templates>

<https://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/#Other%20Agreements%20&%20Templates>

Other Agreements & Templates

[Collapse All](#) [Expand All](#)

- ☒ Acceptance of Contributed Funds for a Section 408 Evaluation
- ☒ Additional Measures Donor Ports and Energy Transfer Ports (Section 2106)
- ☒ Escrow Agreement
- ☒ Levee System Evaluation
- ☒ Placement of Dredged Material into a Federal Dredged Material Placement Facility by a Federal Permittee (Section 401(c))
- ☒ Placement of Dredged Material into a Federal Dredged Material Placement Facility by a Non-Federal Interest (Section 217(b))
- ☒ Planning Assistance to States PAS Resources

Section 22 Technical Assistance

- [History and Applicability](#)
- [Implementation Memo](#)
- Template: [MS Word](#)
- Click here for the [Legacy Versions](#)

TA Model Agreement

Section 22 Planning Assistance Comprehensive Plan

- [History and Applicability](#)
- [Implementation Memo](#)
- [In-Kind MOU](#)
- Template: [MS Word](#)
- Click here for the [Legacy Versions](#)

In Kind MOU

Comp Model Agreement

Guidance

- [Section 3015 of WRRDA 2014](#)
- [Section 1128 of WRDA 2016](#)
- [Non-Profits as Study Partners](#)



PAS CONTRIBUTED FUNDS



- Contributed Funds Memo Signed 14-Jan-2025
- Voluntarily Contributed Funds to Expand the Scope of Services. USACE is authorized to accept voluntary contributions of additional funds to expand the scope of services on PAS projects per section 3015 of the Water Resources Reform and Development Act of 2014. Consequently, the PAS authority directly allows USACE to accept and expend funds in excess of the cost share provided by a State or other non-Federal interest for assistance. Note that this authority is distinct and separate from the 33 USC 701h Contributed Funds for water resources projects, so any guidance related to those Contributed Funds is not applicable to PAS. All work completed with contributed funds must still fall within the PAS authority. In addition, the following criteria should be followed, deviations from these criteria will require HQUSACE approval:
 - a. PAS projects, to include work completed with cost-share funds and contributed funds, should be completed within 2 years or less.
 - b. There must be a stand-alone work product that is cost shared. The stand-alone work product cannot be solely USACE management, oversight, or review. No more than
 - c. 20% of the contributed funds may be used for a contract. The contracted portion should be supplementary to the larger effort led by USACE. The district needs to ensure they have capability to support the work.
 - d. Contributed funds will generally not be accepted on projects with a cost-share waiver.



U.S. ARMY

PAS DELEGATION

15



- PAS Delegation of Authority Memo – 14 Jan 2025
 - PAS agreement approval is currently delegated to the MSC level for agreements that do not have substantive deviations from the model.
 - Districts can apply for approval for delegation to the District Deputy for Project Management.
 - Funding is approved and distributed by HQ.



PAS DELEGATION



- PAS Delegation of Authority Memo – 14 Jan 2025
- PAS Required Milestones are also noted in this memo
 - **CW140** Report Start – For PAS this should be when **funding is received**, and the study starts.
 - **CW170** Report Approval – For PAS this should be when the deliverable is handed over to the non-federal sponsor and the project is **physically complete**.
 - **CW470** Project Fiscally Complete – This should be when the project cost share (if applicable) is closed out and the **funds** have been **returned**.



PAS MODEL AGREEMENTS



- New PAS Model Agreements were posted on the HQ Agreements page in December 2025
- Some of the changes from the previous agreement templates:

42. The following options, including language for the agreement, are addressed in the Attachment:

- a. Option 1: Section 1156 Waiver for Technical Assistance in American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, ~~or~~ Puerto Rico, the Trust Territory of the Pacific Islands, or involving an Indian Tribe or tribal organization (page A-1).
- b. Option 2: Multiple Sponsors (page A-2).
- c. Option 3: Sponsor is a Non-profit Entity that has the consent of the local government (page A-3).
- d. Option 4: Not an Obligation of Future Appropriations (page A-4).

64. In accordance with ~~Appendix G of ER 1105-2-100DPM 2025-01~~, MSC PAS Program Managers may delegate review and approval authority for PAS Agreements to the District's Deputy for Project Management if there are no deviations to the model agreement. District Counsel must concur with the agreement prior to approval. If approval authority has not been delegated by the MSC to the District or if there are deviations to the agreement, the District must submit the negotiated agreement to the MSC Planning Assistance to States Program Manager for approval. Division Counsel concurrence in the agreement is required prior to approval. Substantive deviations, as well as changes involving policy issues, unique circumstances, or controversial matters must be forwarded to the HQ Agreements Team. The District's Deputy for Project Management ~~Commander~~ is authorized to execute the agreement after its approval and approval of funding by the National PAS Program Manager.



PAS MODEL AGREEMENTS



THIS AGREEMENT is entered into this ____ day of _____, _____, by and between the Department of the Army (hereinafter the "Government"), represented by the Deputy for Project Management District Commander for **[Name of USACE District, e.g., New Orleans District]** (hereinafter the "District Commander DPM") and the **[Non-Federal Sponsor's Name]** (hereinafter the "Non-Federal Sponsor"), represented by the **[Title]**.

4. In addition to its required cost share, the Non-Federal Sponsor may determine that it is in its best interests to provide contributed~~additional~~ funds for the Technical Assistance. Contributed~~Additional~~ funds provided under this paragraph and obligated by the Government are not included in calculating the Non-Federal Sponsor's required cost share and are not eligible for credit or repayment. As of the effective date of this Agreement, the Non-Federal Sponsor is projected to provide \$ _____ in contributed funds.



U.S. ARMY

FRM MATRIX



USACE FLOOD & COASTAL STORM RISK MANAGEMENT PROGRAMS

This document is intended to provide general guidelines to identify common USACE programs and authorities that may be appropriate to address flood and coastal storm risk management issues. For details, please visit the listed websites or reach out to the district point of contact.

 US Army Corps of Engineers	NFRMP & SILVER JACKETS COORDINATION	FLOODPLAIN MANAGEMENT SERVICES (FPMS)		PLANNING ASSISTANCE TO STATES (PAS) [*]	CONTINUING AUTHORITIES PROGRAM (CAP) [*]				FEASIBILITY STUDY/ INVESTIGATIONS [*]	INTERAGENCY & INTERNATIONAL SUPPORT (IIS)	WATERSHED STUDIES (SECTION 729)	TRIBAL PARTNERSHIP PROGRAM [*]	EMERGENCY ASSISTANCE (PL 84-99)
		INTERAGENCY (must have at least two governmental partners in addition to USACE)	BASE		STREAMBANK STABILIZATION (SECTION 14)	HURRICANE & STORM DAMAGE REDUCTION (SECTION 103)	FLOOD DAMAGE REDUCTION (SECTION 205)	PROJECT MOD. FOR IMP. TO THE ENVIRONMENT (SECTION 1135)					
SHORT DESCRIPTION	Internal and Inter-agency/ Intergovernmental and External Coordination (not to support projects)	Multi-agency nonstructural and/or natural and nature based	Planning and technical assistance	Water resources planning/ technical assistance	Protection of public infrastructure from erosion (construction)	Protection of public infrastructure on small beaches against erosion and damages caused by nature	Flood risk management structural & nonstructural assessment that can lead to construction	Modification of an existing USACE project for the purpose of improving the environment in the public interest	Large complex water resources project that may lead to construction Note: Under Section 202 of WRDA 1986, studies can be performed by non-federal sponsors and submitted directly to the Secretary of the Army.	Reimbursable technical services to other federal agencies	Watershed scale planning focusing on multiple objectives and tradeoffs, accounting for uncertainty, stakeholder collaboration and adaptive management	Collaboration with Tribes for flood, hurricane and storm damage reduction, including erosion; environmental restoration and protection; and preservation of cultural and natural resources	Disaster preparedness, emergency operations, rehabilitation of eligible flood/coastal risk management projects (FRM/CSRM), provision of emergency water, advance measures, and participation in the hazard mitigation program
CAN A MULTI-PURPOSE EFFORT (MORE THAN FLOOD RISK) BE COMPLETED UNDER THIS PROGRAM?	YES	NO	NO	YES	NO	NO	NO	YES	YES	YES	YES	YES	NO
CAN THIS AUTHORITY DIRECTLY RESULT IN APPROVAL FOR A USACE COST-SHARED CONSTRUCTION PROJECT? *Requires additional authorization	NO	NO	NO	NO	YES	YES	YES	YES	YES*	N/A	NO	YES*	NO
DOES THE PROGRAM REQUIRE THE COMMUNITY/SPONSOR TO PROVIDE FUNDING OR WORK-IN-KIND?	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
COST SHARE (FED/NON-FED)	Full Federal cost for USACE support	Full Federal cost for USACE Support - voluntary contributions can be provided to expand the scope		50/50 (can utilize work-in-kind, unless technical assistance). Cost-share waiver for economically disadvantaged communities applies. [*]	\$100k Full Federal to sign cost share agreement, Feasibility 50/50, Design & Initial Construction 65/35 [*]			\$100k Full Federal to sign cost share agreement, Feasibility 50/50, Design & Construction 75/25 [*]	Typically Feasibility 50/50, Design & Initial Construction 65/35 [*] , ^{**}	Fully Paid by Requesting Agency	75/25	First \$200k Full Federal, then 50/50. Cost share waiver from section 1156 of WRDA 86 as amended, available. Then Ability to Pay may apply. [*]	Temporary Flood Response or Advance Measures Assistance = Full Federal Cost Eligible Post Flood Repairs = Full Federal Cost for Federal FRM/CSRM, 80/20 for Non-Federal FRM
TYPICAL SCALE OF FEDERAL (USACE) COSTS	N/A	<\$200k for Studies		~\$300k for Studies	Less than \$15M Construction Cost (limit)				Typically greater than \$10M Construction	N/A	Depends on Scope	Depends on Scope. Up to \$26M for the programmatic authority	Varies based on assistance provided and applicable criteria
TIMELINE TO COMPLETE	N/A	12-24 months		~12-24 months	18-24 months to complete feasibility study followed by 2-3 years to complete design and construction.				Study ~3 years. Detailed design & construction following Congressional Authorization	N/A	Depends on Scope	Study ~3 years. Detailed design & construction following study approval (Congressional Authorization needed if over \$26M)	Expedited due to emergency nature
TIMELINE TO RECEIVE STUDY FUNDING	Annual Funding Provided for USACE Staff Coordination	Annually / Competitive		Rolling Start depending on program funding availability	CAP New Start Needed				Congressional Authorization & Funding Needed for New Start	As soon as requesting agency can provide it	Funding Needed for New Start	New Start needed	Usually funds are available within 24 hours
ADDITIONAL INFORMATION AVAILABLE AT:	www.iwr.usace.army.mil/Silver-Jackets	https://www.usace.army.mil/Missions/Civil-Works/Technical-Assistance/			https://planning.erdc.dren.mil/toolbox/processes.cfm?Id=229&Option=Continuing%20Authorities%20Program%20(CAP)				https://planning.erdc.dren.mil/toolbox/index.cfm	www.usace.army.mil/Missions/Military-Missions/Interagency-International-Support	https://planning.erdc.dren.mil/toolbox/guidance.cfm?Option=BL&BL=Watershed&Type=None&Sort=Default	https://www.usace.army.mil/Missions/Civil-Works/Tribal-Nations/tribal-otherpolicies/	https://www.usace.army.mil/Missions/Emergency-Operations/

^{*} Tribal and territory ability to pay and/or cost share waivers may apply ^{**} Cost share may differ depending on authorization

PAS FUNDING

Direct PoM Kelly Meador



US Army Corps
of Engineers®

U.S. ARMY



TYPES OF PAS FUNDING FOR DISTRICTS



PAS Negotiations:

- Each district can request funding to cover:
 - Conducting PAS outreach or site visits to scope new projects
 - Scoping of new projects & negotiating agreements
 - Attendance at PAS office hours or PAS Community Meetings
 - Other overarching PM tasks

PAS Project Funding:

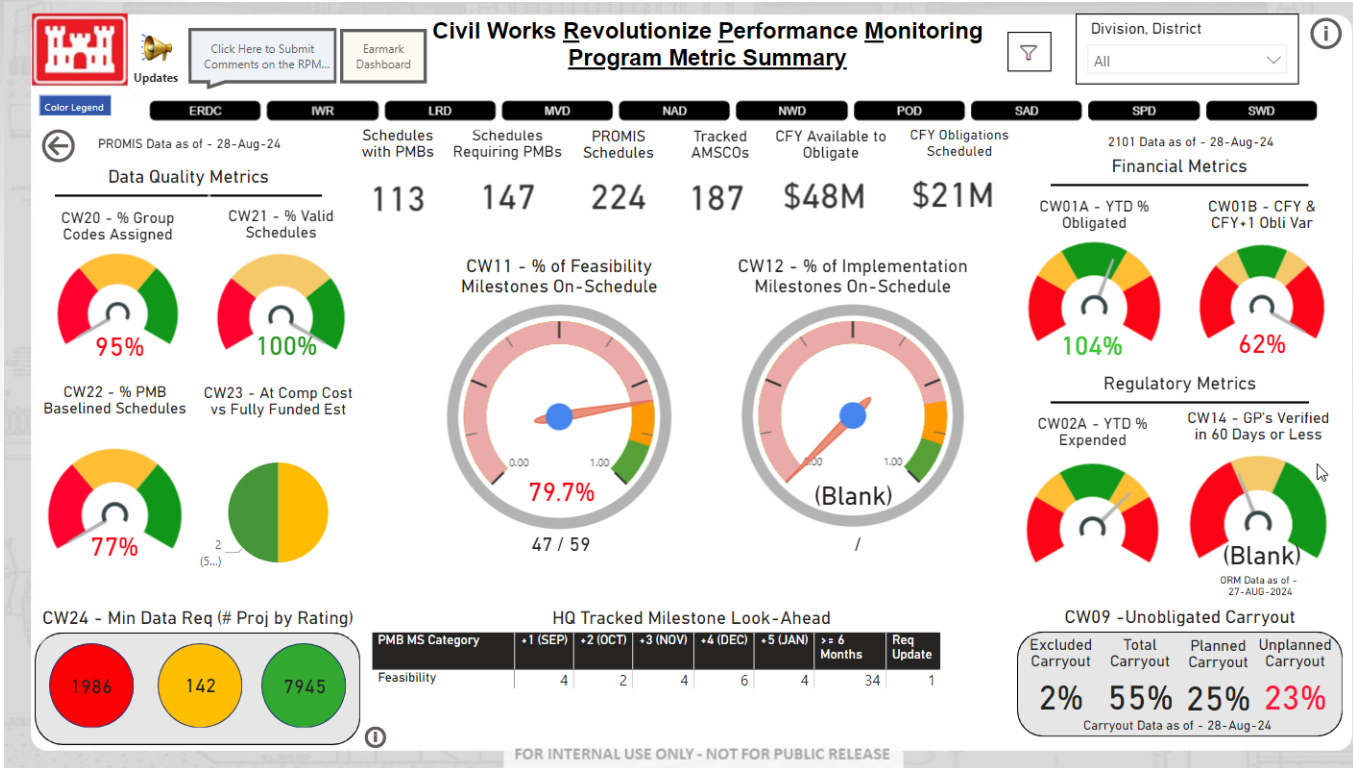
- Once a project is Approved/Funded it should create a unique P2 number and get the Cost Share Control Record set up
- If Cost-shared and sponsor is providing cash, will need to receive Non-Fed funds before any Federal funding can be obligated



U.S. ARMY

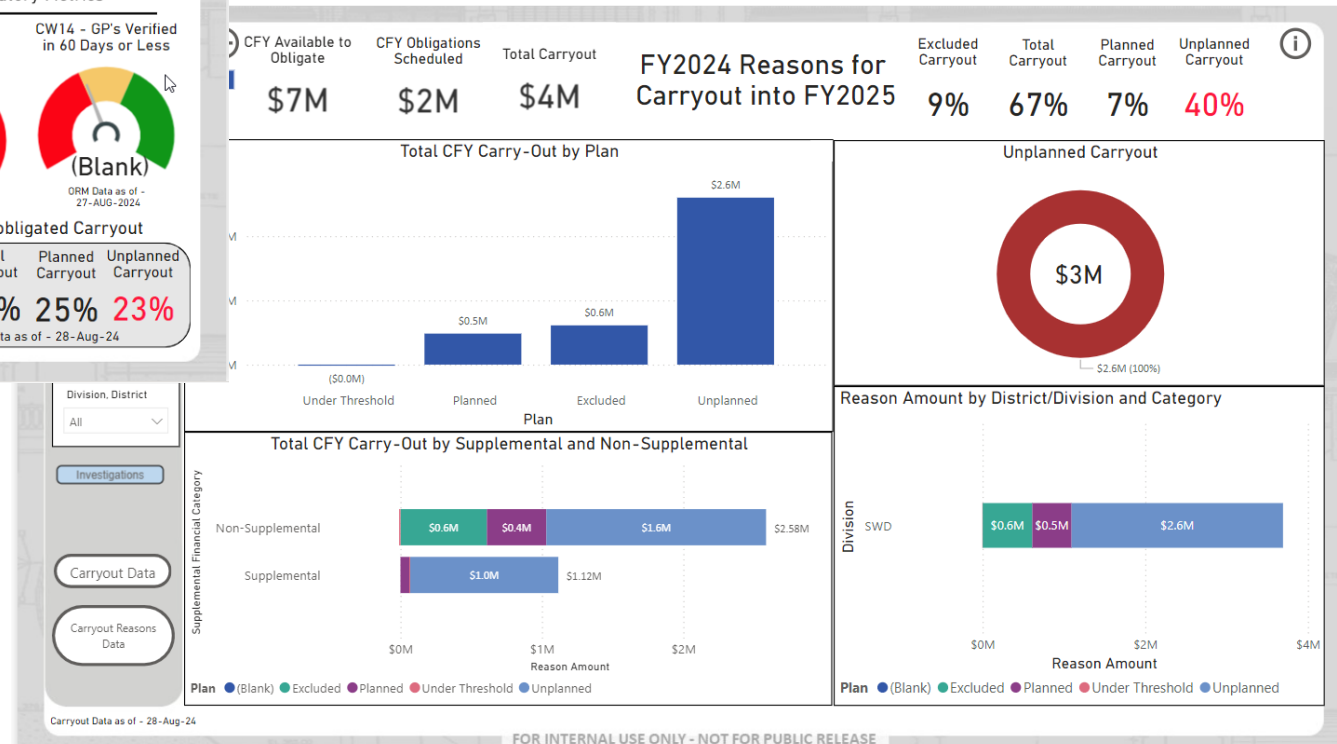
RPM DASHBOARD EXAMPLE

22



National Dashboard

SWD Carryout





PAS FUNDING

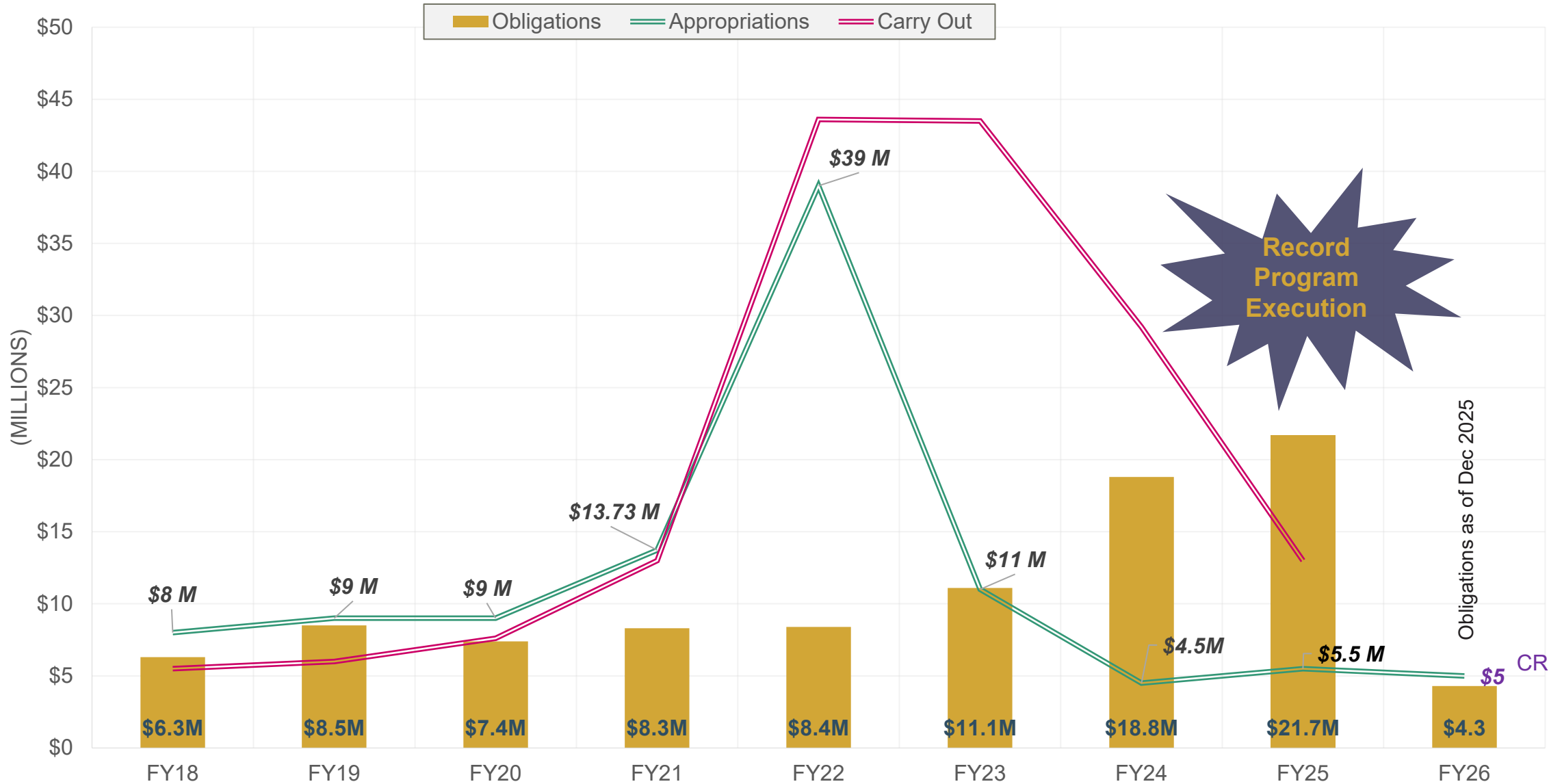




U.S. ARMY

PAS FUNDING

24





U.S. ARMY

FUNDING PRIORITIZATION

(AS OF MAY 2025)

25



Prioritization Factors: Project Scope

- Smaller funding amounts will be prioritized (in the range of \$300k fed or less)
- Projects should be completed within approximately 2 years
- Viability of other programs to fund will be taken into consideration (cannot supplement other authorities)
- Consideration of inland and/or coastal life safety risk
- Projects that leverage other agencies resources

Prioritization Factors: District Factors

- District history of PAS execution
- Districts PAS books clean (remnant funding from negotiations and closed out project returned, projects closed out in RI-TACOd that can be)
- MSC prioritization (to include capacity of district to take on new work)

Prioritization Factors: National Perspective

- Current and projected future national program funding (aka how much will the project need this FY and in future FYs)
- Distribution of projects across the country will be considered. (Will not prioritize efforts if the NFS, state, tribe is already receiving a PAS).
- Current Congressional/Administration Priorities will be considered



U.S. ARMY



PROGRAM FUNDING STATUS (JAN UPDATE)

- FY26 CR= \$5M
- District Negotiation Funds
 - Closer to pre-BIL amounts (\$20k/year)
 - Use older year funds and return 'remanent funding' first – want districts to only have current FY funding for negotiations in future
- Project Funding= New Starts are limited to funding returns during the FY26 CR



Funding Program	POCs	CCS Code	AMSCO/ Name Code	Return To
Planning Assistance to States	Lacey Thomason cc: Kaely Megaro	186	Project Name and AMSCO Code will vary	FOA CODE: S0 CCS NAME: 186 PLANNING ASSITANCE TO STATES AMSCO: 190007 PLANNING ASSITANCE TO STATES (HQ MASTER AMSCO) STATE CODE: XX PAC CODE: 0002 FRM/ 0005 Multi-Purpose/ 0001 Nav WORK ALLOWANCE TYPE NAME: RLC REALLOCATION

PROJECT EXAMPLES



U.S. ARMY

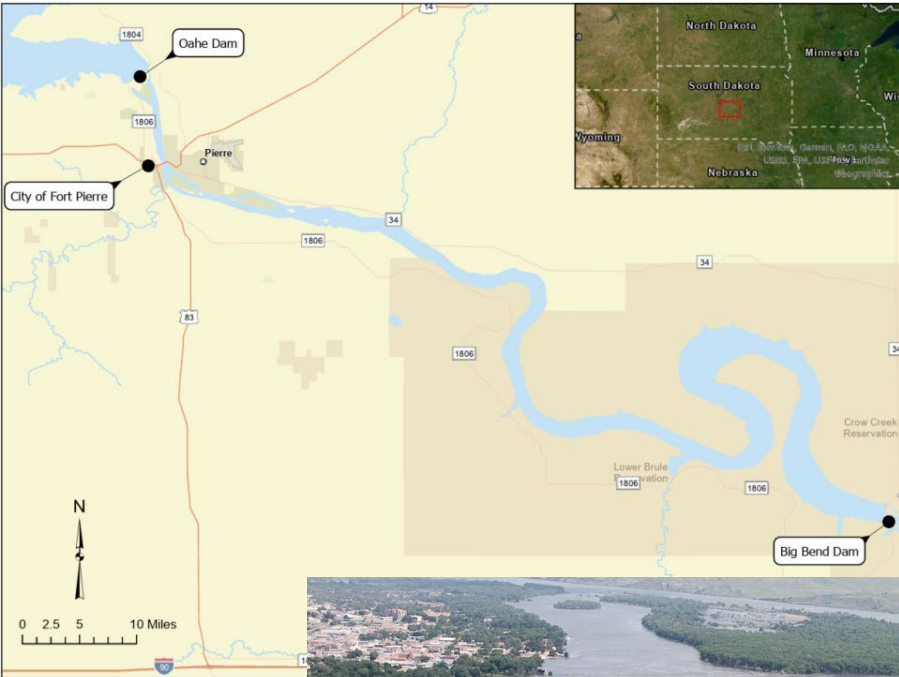


US Army Corps
of Engineers®



Planning Assistance to States - Technical Assistance

NWO – Stanley County, Fort Pierre, SD / Existing Conditions Analysis



Study Area



Marion's Garden & Compton's Cove, 2011

Partner(s): *City of Fort Pierre, SD*

Project Description: *Existing conditions analysis that could support future development and implementation of a flood damage prevention plan to protect the city and surrounding areas from highwater events on the Missouri River.*

Federal Investment: *\$ 37,457.62 (50% of the study)*

Technical Assistance Support Provided: *Existing hydraulic and economic conditions.*

The hydraulic model included the Missouri River from Oahe Dam (upstream of Fort Pierre) to Big Bend Dam (downstream of Fort Pierre).

The economic analysis focused on Fort Pierre and the surrounding rural areas, as defined by the 0.2% AEP floodplain with a 500-foot buffer.

Accomplishments and Outcomes:

Hydraulics: *Inundation extents and water surface elevations in the vicinity of Fort Pierre for the 50%, 20%, 10%, 2%, 1% and 0.2% AEPs.*

Economics: *Structure inventory; structure inundation maps and flood damages for each AEP above.*

Outcomes: *The existing conditions can be used to inform future technical assistance efforts, and are necessary to inform existing flood risk, explore alternative concepts, develop land use planning, and emergency action plans. The NFS has submitted an LOR for a second PAS study to explore these. Once scope of work and budget is complete, funding will be requested. There is congressional interest in this study (Sen. Mike Rounds, SD).*

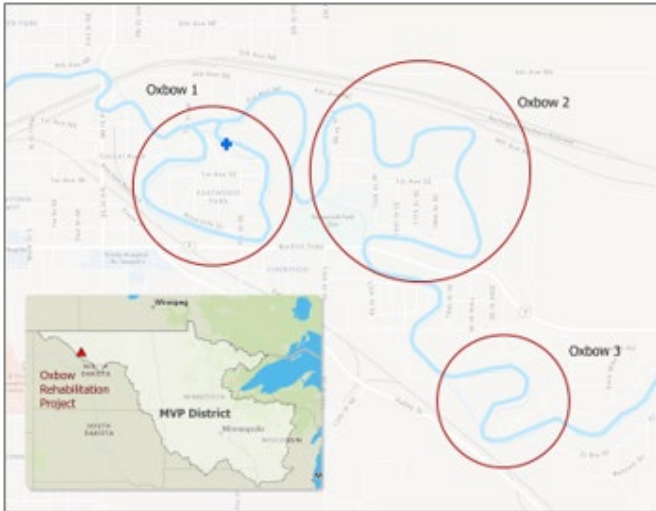
POC: *PJ Stanton, PM / Planner, Omaha District*



Planning Assistance to States- Technical Assistance

MVP - Souris River Oxbow Rehabilitation

PAS Study Features Map



Oxbow Site Conditions Assessed



Partner(s): *City of Minot, North Dakota*

Project Description: *Through the Planning Assistance to States (PAS) program, MVP partnered with the City of Minot, North Dakota to address degraded oxbows throughout the city. Over time, these oxbows have become stagnant and polluted. MVP hosted a workshop to identify and evaluate measures that could enhance water quality and biodiversity within these channels.*

Federal Investment: *\$24,160 (50% of the study)*

Technical Assistance Support Provided: *The assistance evaluated measures that increase biodiversity and hydrologic connectivity for oxbows identified as a priority by the city and defined solutions that do not impact the function of the FRM project. The project focused on measures that are less costly than a previously developed \$20 million dollar plan.*

Accomplishments and Outcomes: Results from measures identified in the workshop include:

- Fifteen (15) measures with a high/medium effect
- Thirteen (13) measures identified as being cost effective (<\$1M)
- Eleven (11) Acceptable across all criteria

POC: *Kevin Bigalke, PgM, St. Paul District*



Planning Assistance to States - *Technical Assistance*

Chattanooga, TN Flood Preparedness Study Phase IV



Partner(s): City of Chattanooga

Project Description: The U.S. Army Corps of Engineers Nashville District developed flood preparedness products including H&H modeling, updating a structure elevation database, and flood inundation mapbooks.

Federal Investment: \$285,103

Technical Assistance Support Provided: The flood inundation mapbooks leverage hydraulic modeling data to show areas at risk of flooding along six streams in the Chattanooga area. These maps display areas of flood inundation and potential sites of impact, anywhere on the stream, based on a streamgage reading. They are designed for emergency response and planning. The team used structure elevation and terrain data to label impact sites with estimated flood depths.

Accomplishments and Outcomes: The USACE team recently presented the mapbooks to local officials including stormwater engineers, county emergency management, and first responders. The participants showed strong interest in the mapbooks. They discussed how to better communicate technical information during a flood event amongst the different departments. The participants said that the mapbooks could potentially save lives during future flood events.

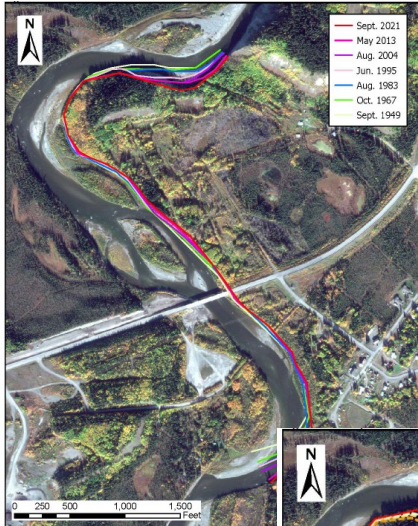
POC: Sydney Curnes, Nashville District



Planning Assistance to States- Technical Assistance

Gulkana Erosion study

Map of erosion rates along highway and future projections.



Partner(s): *Native Village of Gulkana*

Project Description: *The PAS Study provided the Native Village of Gulkana an analysis of the erosion rates and flood risk potential impacts to tribal lands, resources, infrastructure in the Copper River system. It was one of five similar studies providing a programmatic approach to multiple tribes in the Copper River Region.*

Federal Investment: *\$207,012 (100% of the study)*

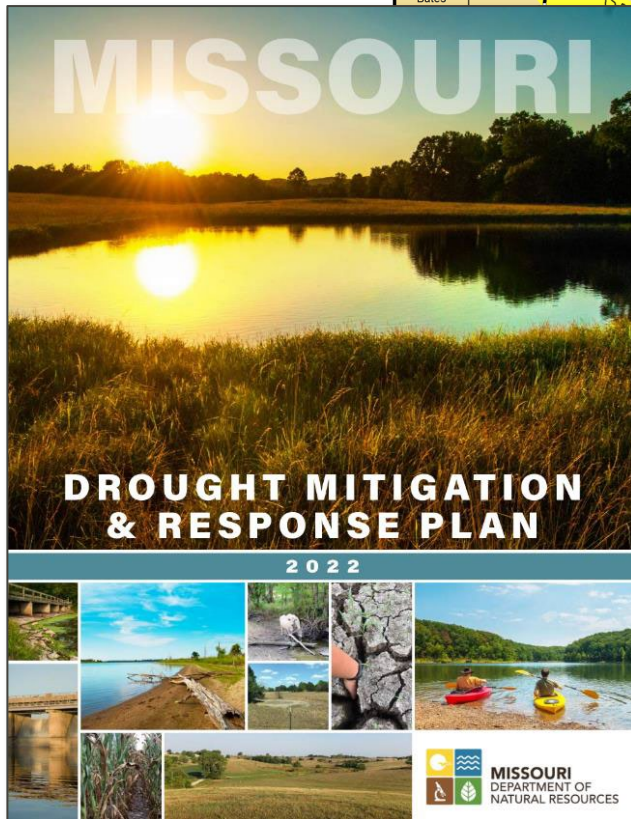
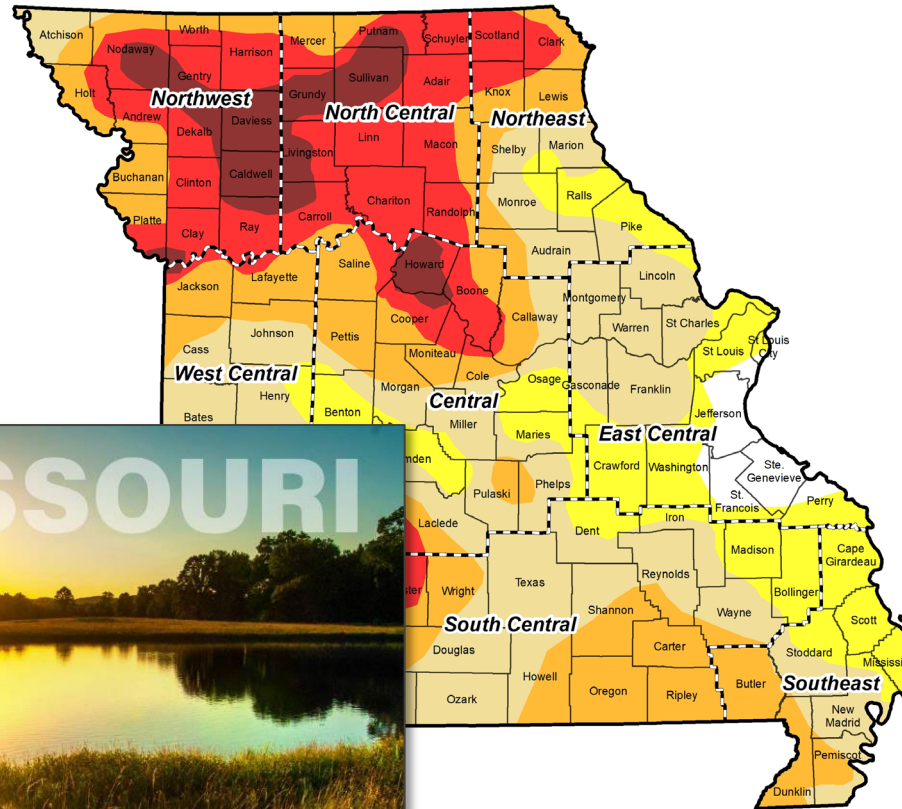
Technical Assistance Support Provided: The study provided the tribe data and analysis that can be utilized in planning long term mitigation strategies of the Copper River erosion.

Accomplishments and Outcomes: The Tribe will be utilizing this data in future development of tribal lands and management of existing infrastructure. The study will inform new infrastructure decisions, retreat strategy, and informs of possible mitigation measures that could be implemented by USACE, the tribe, or other federal agencies.

POC: *, Leif Hammes, Alaska District*



MISSOURI DROUGHT MITIGATION & RESPONSE PLAN PAS



Agreement Type – Technical Assistance

Partners: Missouri Department of Natural Resources

Project Description: The Missouri Drought Mitigation and Response Plan is intended to aid state, federal, and local government officials; commercial, industrial, and private water users; and public and private water suppliers in planning and responding to drought events in Missouri. The primary goals of the plan are to serve as an information source for reducing drought impacts, increasing public awareness, enhancing resiliency, promoting water conservation, adapting to climate change, improving monitoring, facilitating response planning, and clarifying roles and responsibilities.

Objectives/Outcomes:

- Intended outcome: Equip the State to mitigate drought and be more drought resilient
- Deliverables: Implementable Drought Mitigation Plan
- Benefit to Partner/Community
 - Drought preparedness for all water resources state-wide
- What will the partner do with the deliverables? Implement drought mitigation measures and planning state-wide

Total project costs: \$1M (fed \$500K/non-fed \$500K)

KANSAS CITY DISTRICT



Early 1980's

Select major initiatives spearheaded development and protection of the river system.

1993

Congress initiated the Chicago Rivers Demonstration Project as a collaborative effort to develop an action plan for river enhancements and community-based activities to serve as a national model for revitalizing degraded urban rivers.

2019

Chicago Mayor Rahm Emanuel signed Executive Order No. 2019-1, directing the City of Chicago's DPD to establish a River Ecology and Governance Task Force (REGTF).

2021

CPD, DPD, FPDCC, MWRD, and USACE began developing the Chicago Waterways Framework Plan.

Planning Assistance to States- *Comprehensive Planning* Chicago Area Waterways Restoration Framework

Partners: City of Chicago, Chicago Park District, Metropolitan Water Reclamation District of Greater Chicago, and Forest Preserves District of Cook County

Project Description: The Chicago Area Waterways Restoration Framework Plan supported and integrated ongoing and future aquatic ecosystem restoration and community and industrial initiatives that are/were being conducted along the Chicago Area Waterway System by citizens; businesses; non-governmental organizations; and local, state, and federal partners.

Federal Investment: \$150,000

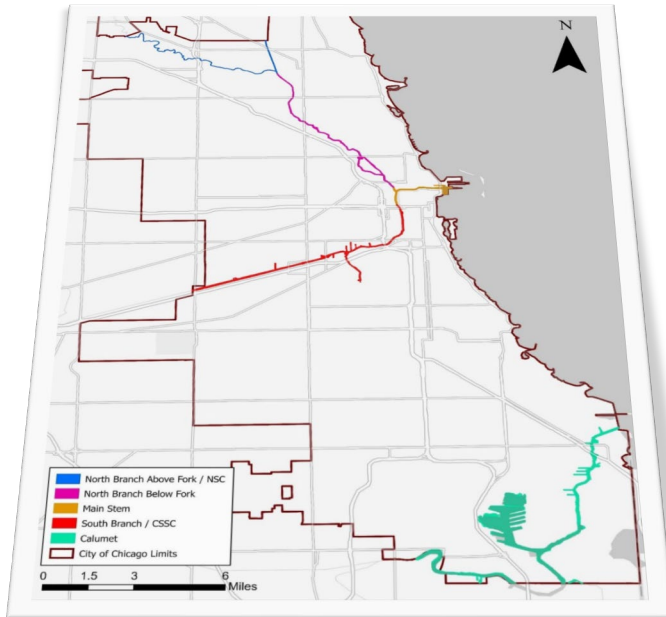
Technical Assistance Support Provided:

- 1) Provided river reach specific evaluations (5 reaches in total)
- 2) Identified problems and an inventory of existing conditions of the Chicago Area Waterway System
- 3) Assessed potential aquatic ecosystem restoration and flood risk management activities (82 opportunities sites in total)
- 4) Identified opportunities for connecting existing and planned riverfront developments and recreation amenities
- 5) Identified potential public health impacts of river restoration activities



Accomplishments and Outcomes: Study was awarded the 2024 Chicago River Blue Award via the Friends of the Chicago River. This award is given to projects that exhibit an exceptional level of sustainable practices and design excellence on multiple levels. Additionally, the PAS effort led to the Chicago Area Waterway System Restoration Study, kicking off the Federal Interest Determination phase in FY26.

POC: Akilah Martin, Chicago District



Planning Assistance to States

Milwaukee Metropolitan Sewerage District Channel Assessment

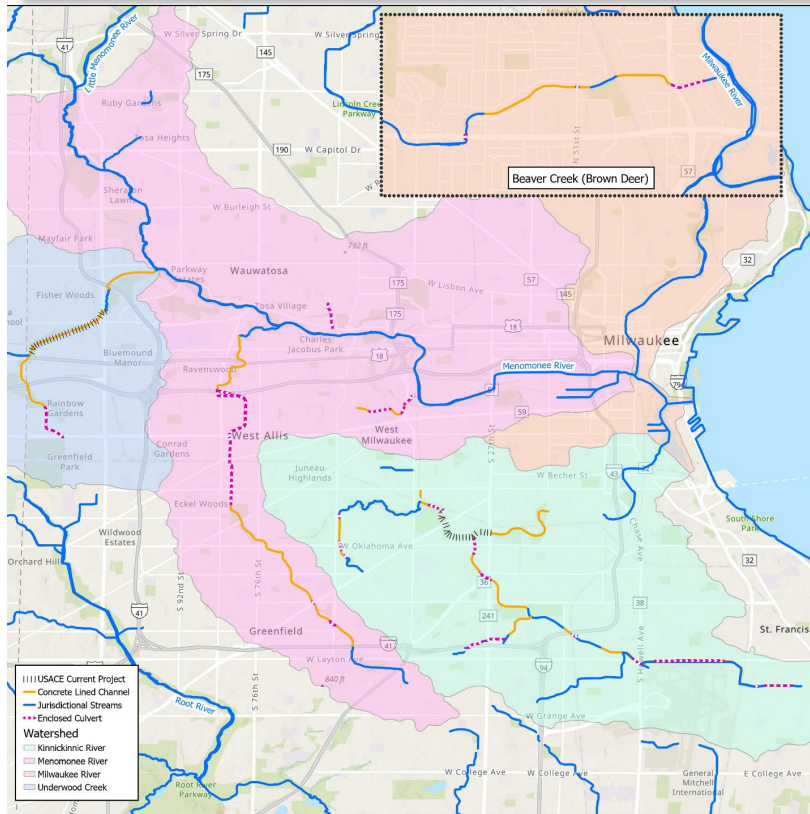


Figure: Streams in the Milwaukee Area Evaluated in the PAS comprehensive plan

Partners: Milwaukee Metropolitan Sewerage District (MMSD)

Project Description: MMSD has statutory authority to complete flood management work along 138 miles of jurisdictional streams in the Milwaukee, WI metro area. Some MMSD channels are concrete-lined and/or enclosed culverts, a vestige of flood control projects built from the 1950s through the 1970s. This channel design has not proven to be resilient to increasingly more intense storms and have also interrupted ecological processes and reduced water quality. The study developed a comprehensive plan for naturalization of the concrete-lined channels where feasible given environmental, engineering, and funding considerations. The plan included an inventory of completed/planned MMSD projects and an evaluation of aquatic ecosystem restoration and flood risk management potential for stream reaches within three watersheds given the physical environment, operational conditions, real estate considerations, socioeconomic setting, and potential to encounter HTRW issues.

Accomplishments and Outcomes: The study evaluated the aquatic ecosystem restoration and flood risk management potential for 16 stream reaches, with 7 being good candidates for aquatic ecosystem restoration and 2 being good candidates for flood risk management projects. The study identified Corps Civil Works authorities that may be suitable for partnership with MMSD to further study, design, and implementation of projects.

POC: Dr. Akilah Martin, akilah.r.martin@usace.army.mil



Figure: Underwood Creek Before and After Restoration (not part of PAS but included as an example of future restoration potential for sites identified in PAS comprehensive plan)

LRB NFTA METRO RAIL EROSION PAS, BUFFALO RIVER, NY (P2# 515742)

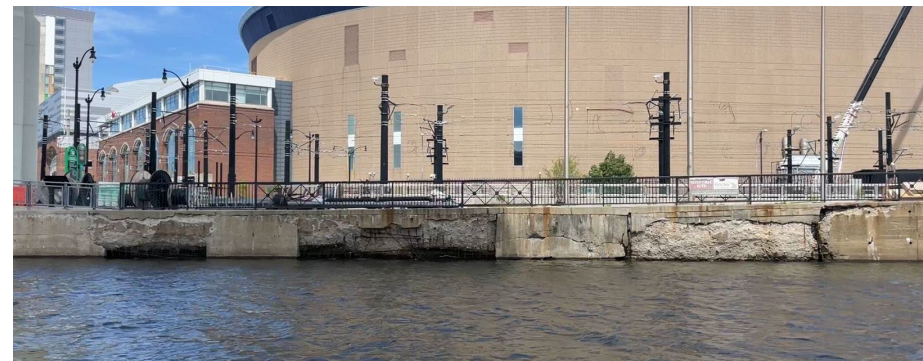
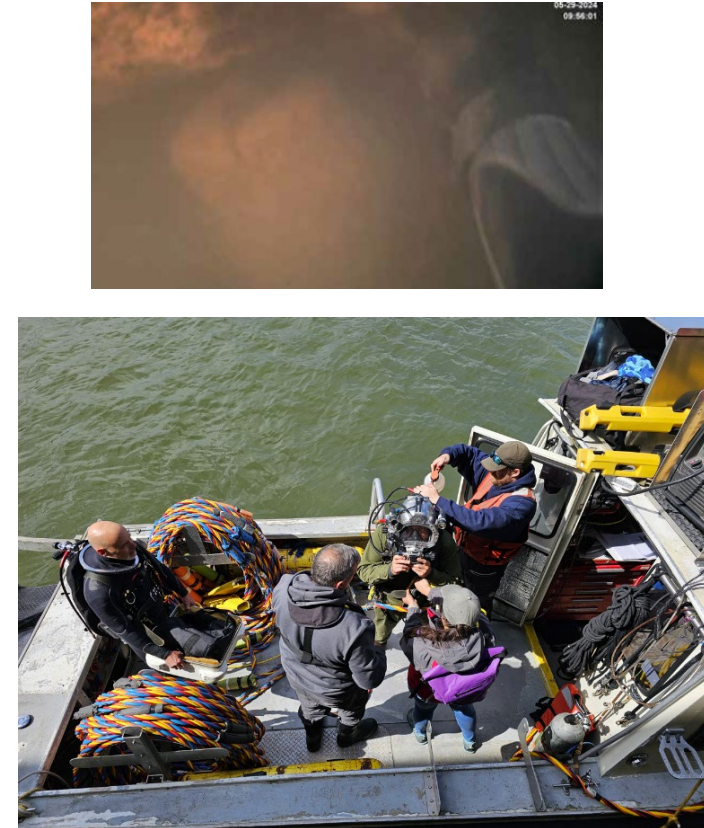
DL&W TRAIN STATION TERMINAL DIVE INSPECTION

Nonfederal Sponsor: Niagara Frontier Transportation Authority (NFTA)

Success Story:

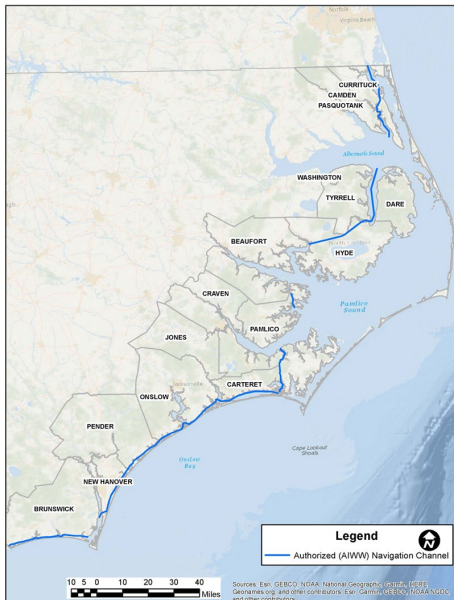
- On May 28 & 29, 2024, the Buffalo District Dive Team conducted an underwater dive inspection in the Buffalo River at the Niagara Frontier Transportation Authority's Delaware, Lackawanna and Western (NFTA DL&W) train station terminal in Buffalo, New York in support of the PAS NFTA Metro Rail Erosion Study.
- The underwater inspection helped gather information to provide a physical description and identify defects in structural components, assess each item inspected, and provide an overall assessment rating of the seawall structures.
- Data collected during the dive inspection helped the PDT identify areas of concern, and prioritize areas recommended for immediate, short-, and long-term repair actions and other interventions.

POCs: Melissa Tarasiewicz, Melissa.J.Tarasiewicz@usace.army.mil
Jen Brancho, PAS Program Manager, jennie.m.brancho@usace.army.mil





Planning Assistance to States- *Comprehensive Planning* NC AIWW Dredged Material Management Plan – Phase 2



Partner(s): North Carolina Department of Environmental Quality

Project Description: Assessment of future 20-year dredged material capacity needs for 131 non-Federal maritime facilities located adjacent to the AIWW in 9 coastal counties. These facilities with associated details were identified in Phase 1. Areas of greatest need were identified, as well as potential new disposal areas, and environmental considerations for new placement sites.

Federal Investment: \$56,000 (50% of Total Project Cost)

Technical Assistance Support Provided: Technical expertise in database creation, GIS, imagery and dredged material disposal and containment was leveraged to complete this analysis.

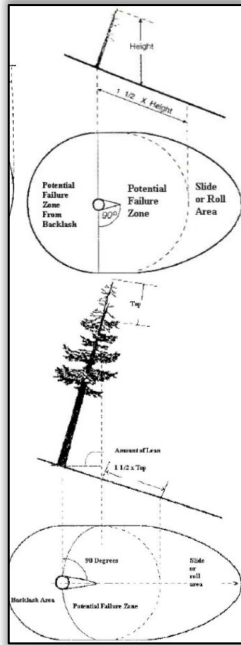
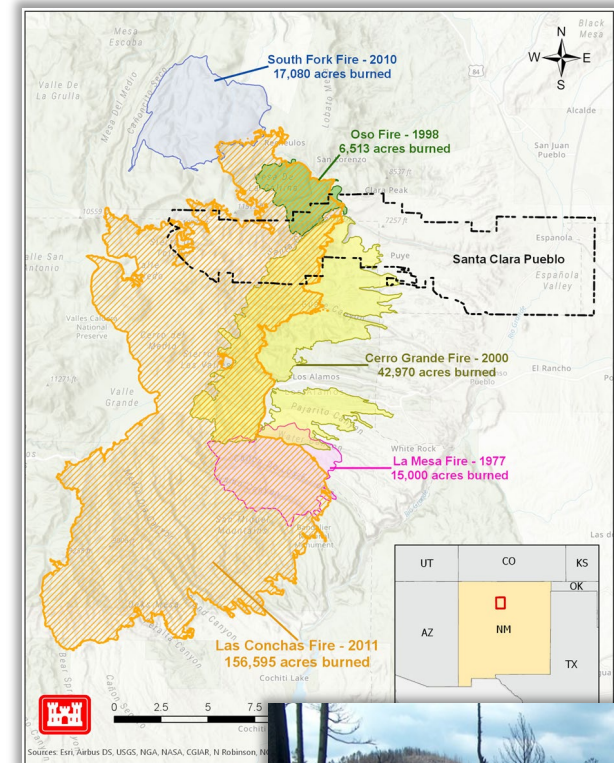
Accomplishments and Outcomes: State of NC now has populated geodatabase and technical data to inform prioritization decisions for future additional dredged material containment sites.

POC: Jason Glazener, Wilmington District



Planning Assistance to States - *Comprehensive Planning*

SANTA CLARA CANYON ACCESS RISK ASSESSMENT



Partner: Pueblo of Santa Clara

Problem Description: The 2011 Las Conchas wildfire burned 156,593 acres (~50% of the Santa Clara Creek watershed) in the Jemez Mountains and was briefly the largest wildfire in New Mexico history. This caused extensive damage to vegetation and the formation of hydrophobic soils. Post-wildfire rainstorms resulted in many debris flows, resulting in the damage and loss of infrastructure and culturally significant sites, extirpation of fish in the creek, and multiple emergency declarations.

Federal Investment: \$89,000

Technical Assistance Support Provided: The purpose of this project was to provide a means for describing and communicating life safety hazards present in Santa Clara Canyon. The assessment proposed recommendations for lessening or avoiding life safety risks while balancing the need for access to the canyon by the Pueblo members. The assessment incorporated existing information on hydrology, hazard reduction, and ecosystem recovery efforts. Existing safety protocols and plans were incorporated to the extent possible.

Accomplishments and Outcomes: This product has served as a guide for the Pueblo of Santa Clara to understand the risks that exist in the Canyon and offers best management practices when accessing the Canyon.

POC: Sarah Moore, Albuquerque District



UPDATES



US Army Corps
of Engineers®

U.S. ARMY



U.S. ARMY

IN DEVELOPMENT

- FY25 PAS Annual Report (internal to USACE)
- FY25 PAS Placemat (external to USACE)
- PAS Engineering Pamphlet (EP)
- PAS SOP to include review and funding processes
- Improve RI-TACO usability/efficiency
- 8119 Mapping Tool

- Prioritization on closing out completed projects (close to 90 projects are scheduled to be physically complete this year)
- As funds become available for new starts projects will be funded out of the existing queue of approved unfunded projects based on the prioritization

?????Questions/Discussion?????

