

# SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) PROGRAM

## 2023 Update Integrated Delivery Schedule

Tabitha Elkington, PhD  
U.S. Army Corps of Engineers, Jacksonville District

Melinda Parrott  
South Florida Water Management District

November 15, 2023



US Army Corps  
of Engineers





U.S. ARMY

# TODAY'S WORKING DRAFT IDS BRIEF



- **Schedule**
- **IDS Purpose, Investments, Project Locator**
- **Project Schedule Updates**
- **System Operations**
- **RECOVER Applied Science Strategy**
- **Status of Yellow Book Components**







U.S. ARMY

# 2023 INTEGRATED DELIVERY SCHEDULE



## INTEGRATED DELIVERY SCHEDULE 2023 UPDATE – FINAL DRAFT

**SOUTH FLORIDA ECOSYSTEM RESTORATION | CENTRAL AND SOUTHERN FLORIDA COMPREHENSIVE EVERGLADES RESTORATION PLAN**

The Central and Southern Florida Comprehensive Everglades Restoration Plan (C/SFER) is a multi-billion dollar program to restore the South Florida ecosystem. The program includes the construction of water control structures, water conveyance canals, and water storage facilities. The program also includes the restoration of wetlands and other natural resources. The program is being implemented in a phased manner, with the first phase of construction beginning in 2023.

PROJECT	DESCRIPTION	START DATE	END DATE	STATUS
101	Water Control Structure Construction	2023	2025	Active
102	Water Conveyance Canal Construction	2023	2025	Active
103	Water Storage Facility Construction	2023	2025	Active
104	Wetland Restoration	2023	2025	Active
105	Wetland Restoration	2023	2025	Active
106	Wetland Restoration	2023	2025	Active
107	Wetland Restoration	2023	2025	Active
108	Wetland Restoration	2023	2025	Active
109	Wetland Restoration	2023	2025	Active
110	Wetland Restoration	2023	2025	Active



✓ **04 August 2023:** Integrated Delivery Schedule 101 and Stakeholder Listening Session

✓ **18 August 2023:** Integrated Delivery Schedule, 68 CERP Components Overview and Listening Session with Stakeholders

✓ **06 September 2023:** Release of Working Draft 2023 IDS Update at SFER Task Force WG/SCG

□ **15 November 2023:** Release of Final 2023 IDS Update at SFER Task Force Meeting

**SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT – 2023 FINAL DRAFT**

**THE RESTORATION FRAMEWORK**

**OPERATIONS IN SYNC WITH PROJECT DELIVERY**

**RECOVER APPLIED SCIENCE STRATEGY**

**COMPONENTS AND PROJECTS**

**SOA VOLUMES BY REGION**

**SOA CONSTRUCTION SCHEDULE FOR SOA VOLUMES, WATER MANAGEMENT, OPERATIONS, AND MONITORING**

**INTEGRATED DELIVERY SCHEDULE**





# IDS PLACEMAT – PAGE 1



### INTEGRATED DELIVERY SCHEDULE 2023 UPDATE

**SOUTH FLORIDA ECOSYSTEM RESTORATION | CENTRAL AND SOUTHERN FLORIDA COMPREHENSIVE EVERGLADES RESTORATION PLAN**

**IDS 2023**

The Comprehensive Everglades Restoration Plan (CERP) is the largest aquatic ecosystem restoration in the nation spanning over 1,000 square miles and is designed to improve the health of the South Florida Everglades. The Integrated Delivery Schedule (IDS) is a forward-looking schedule of upcoming planning, design and construction activities and program milestones for the CERP. The IDS is updated as needed to reflect project progress and program changes. The IDS synchronizes program and project priorities with the State of Florida and the CERP restoration objectives of the earliest practicable time, consistent with funding constraints and the interdependencies between project components.

Although non-CERP and Foundation projects upon which the CERP is dependent are reflected in the IDS Schedule, they are not included in the funding scenario. These projects are funded through other program authorities or by other entities. Restoration projects by others are also not included but are considered during planning.

Note: The IDS serves the purpose of the Master Sequencing and Implementation Plan (MSIP) described in the original CERP plan (Yellow Book) and is updated for each year (FY) from October 1, September 30, and beyond only in years representing approximate funding levels that would be needed to sustain the work described in the IDS for any given fiscal year. The funding does not represent a commitment by the State of Florida for the amounts shown.

Projects completed in prior years have been removed from the 2023 IDS.

**SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2023 (Millions)**

FISCAL YEAR	REBIL			NON-REBIL			GRAND TOTAL		
	USACE	DOI	TOTAL	USACE	DOI	TOTAL	USACE	DOI	TOTAL
2023	\$ 76	\$ 317	\$ 393	\$ 82	\$ 26	\$ 108	\$ 475	\$ 343	\$ 818
2024	\$ 401	\$ 401	\$ 802	\$ 401	\$ 401	\$ 802	\$ 803	\$ 802	\$ 1,605
2025	\$ 780	\$ 52	\$ 832	\$ 327	\$ 1,089	\$ 1,416	\$ 1,199	\$ 1,416	\$ 2,615
2026	\$ 2,148	\$ 112	\$ 2,260	\$ 2,679	\$ 4,840	\$ 7,109	\$ 4,840	\$ 7,109	\$ 11,958
2027	\$ 5,274	\$ 40	\$ 5,314	\$ 4,005	\$ 4,810	\$ 8,815	\$ 9,329	\$ 8,810	\$ 18,139

**IDS PROJECT LOCATIONS (FOR SCALE) (The Project Location Code)**

F1: Colman  
F2: Herdbee  
F3: Lake Okechobee  
F4: Restoration  
F5: Tamiami Trail  
F6: Phosphate Island  
F7: Colossalchee  
F8: Biscayne  
F9: C-111  
F10: C-111  
F11: C-111  
F12: C-111  
F13: C-111  
F14: C-111  
F15: C-111  
F16: C-111  
F17: C-111  
F18: C-111  
F19: C-111  
F20: C-111  
F21: C-111  
F22: C-111

**Legend:**

- Non-Federal
- Federal
- Fiscal Closeout
- Monitoring
- Does not reflect budgetary development dollars or capability
- Expected WIDA year
- Project Implementation Report
- Project Implementation Report with Exemption
- Design, PFA Execution, Real Estate Acquisition
- Construction (initiated by award of construction contract)
- Operational
- Testing and Monitoring Period

PROJECT LOCATION	PROJECT	REBIL EQUIPMENT	FISCAL YEAR (Dollars in millions)																										
			2023 W	2023	2024 W	2024	2025 W	2025	2026 W	2026	2027 W	2027	2028 W	2028	2029 W	2029	2030 W	2030	2031 W	2031	2032 W	2032	2033 W	2033	2034 W	2034			
	Planning Estimates Federal Construction Cost (SFER)++		\$ 352	\$ 1,128																									
	Planning Estimates Non-Federal Construction Cost (SFER)++		\$ 352	\$ 343	\$ 2,000	\$ 1,450	\$ 1,806	\$ 1,866	\$ 770	\$ 444	\$ 537	\$ 239	\$ 65	\$ 36	\$ 37														
	Planning Estimates Total Construction Cost (SFER)++		\$ 704	\$ 1,471																									
	<b>NON-CERP AND FOUNDATION</b>																												
F2	Herdbee Hoover Dam																												
F3	Lake Okechobee System Operating Manual																												
F4	Restoration Strategy																												
F5	Tamiami Trail Head Regs (TTR) Phase 2																												
F6	Phosphate Island Restoration																												
F7	Colossalchee River (C-45) Weir Basin Storage																												
F8	Biscayne Bay Coastal Wetlands																												
F9	C-111 South Dade																												
F10	C-111 South Dade																												
F11	C-111 South Dade																												
F12	C-111 South Dade																												
F13	C-111 South Dade																												
F14	C-111 South Dade																												
F15	C-111 South Dade																												
F16	C-111 South Dade																												
F17	C-111 South Dade																												
F18	C-111 South Dade																												
F19	C-111 South Dade																												
F20	C-111 South Dade																												
F21	C-111 South Dade																												
F22	C-111 South Dade																												





# PURPOSE, INVESTMENTS, PROJECT LOCATOR AND LEGEND



## INTEGRATED DELIVERY SCHEDULE 2023 UPDATE – FINAL DRAFT

SOUTH FLORIDA ECOSYSTEM RESTORATION | CENTRAL AND SOUTHERN FLORIDA COMPREHENSIVE EVERGLADES RESTORATION PLAN



The **Comprehensive Everglades Restoration Plan (CERP)** is the largest aquatic ecosystem restoration effort in the nation, spanning over 18,000 square miles, and is designed to improve the health of more than 2.4 million acres. The Integrated Delivery Schedule (IDS) is a forward-looking snapshot of upcoming planning, design, and construction schedules and programmatic costs at a “top” line level for the South Florida Ecosystem Restoration (SFER) Program – including CERP, Modified Water Deliveries to Everglades National Park, the Critical Projects Program, Kissimmee River Restoration, and non-CERP Central and Southern Florida (C&SF) projects.

The IDS reflects the sequencing strategy for planning, design, and construction and does not include costs for work completed in other fiscal years or land acquisition. The IDS does not require an agency action and is not a decision document. It is a tool that provides information to decision-makers – a living document that is updated as

needed to reflect progress and/or program changes. The IDS synchronizes program and project priorities with the State of Florida and achieves the CERP restoration objectives at the earliest practicable time, consistent with funding constraints and the interdependencies between project components.

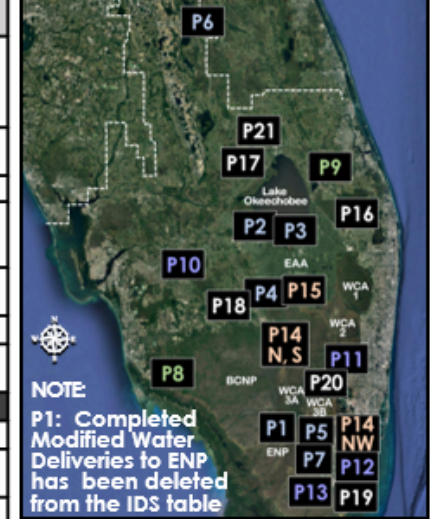
Although non-CERP and Foundation projects upon which the CERP is dependent are reflected in the IDS schedule, they are not included in the funding scenario. These projects are funded through other program authorities or by other entities. Restoration projects by others are also not included but are considered during planning.

Note: The IDS serves the purpose of the Master Sequencing and Implementation Plan (MISP) described in the original CERP plan (Yellow Book). Funding shown for Fiscal Year 25 (Fiscal Year, October 1- September 30) and beyond is only notional, representing approximate funding levels that would be needed to sustain the work displayed in the IDS for any particular fiscal year. The funding does not represent a commitment by the Administration to budget the amounts shown.

Projects completed in prior years have been removed from the 2023 IDS.

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2022 (Millions)					
	FEDERAL			NON-FEDERAL MULTIPLE AGENCIES	GRAND TOTAL
	USACE	DOI	TOTAL		
Modified Water Deliveries to ENP	\$ 78	\$ 317	\$ 395	-	\$ 395
Critical Projects	\$ 89	-	\$ 89	\$ 88	\$ 177
Kissimmee River Restoration	\$ 409	-	\$ 409	\$ 401	\$ 810
C&SF Non-CERP	\$ 780	\$ 52	\$ 831	\$ 227	\$ 1,059
C&SF CERP	\$ 2,168	\$ 112	\$ 2,281	\$ 2,579	\$ 4,860
C&SF CERP, to be credited	-	-	-	\$ 894	\$ 894
<b>TOTAL SFER</b>	<b>\$ 3,524</b>	<b>\$ 482</b>	<b>\$ 4,005</b>	<b>\$ 4,190</b>	<b>\$ 8,195</b>
Herbert Hoover Dike	\$ 1,511	-	\$ 1,511	\$ 100	\$ 1,611
Restoration Strategies and ECP	-	-	-	\$ 2,446	\$ 2,446

IDS PROJECT LOCATIONS (NOT TO SCALE)  
(Refer to Project Locator in Table)



Non-federal	Does not reflect budgetary development dollars or capability	Design, PPA Execution, Real Estate Acquisition
Federal	Expected WRDA year	Construction (Initiated by award of construction contract)
Fiscal Closeout	Project Implementation Report	Operational Plan
Monitoring	Project Implementation Report with Exemption	Operational Testing and Monitoring Period

SCAN THIS CODE FOR QUICK ACCESS TO A DIGITAL COPY OF THE IDS





# IDS 2023: PLANNING ESTIMATES OF TOTAL SFER CONSTRUCTION COST



NOTE  
BLUE OR  
BLACK

NOTE  
FISCAL  
YEARS

NOTE "W" FOR  
ANTICIPATED  
WRDAs

PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>												
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W
	Planning Estimates Federal Construction Cost (SFER) <sup>++2</sup>		\$ 352	\$ 1,128											
	Planning Estimates Non-Federal Construction Cost (SFER) <sup>++</sup>		\$ 332	\$ 343	\$ 2,000	\$ 1,482	\$ 1,506	\$ 1,885	\$ 790	\$ 444	\$ 337	\$ 239	\$ 85	\$ 36	\$ 37
	Planning Estimates Total Construction Cost (SFER) <sup>++</sup>		\$ 679	\$ 1,471											



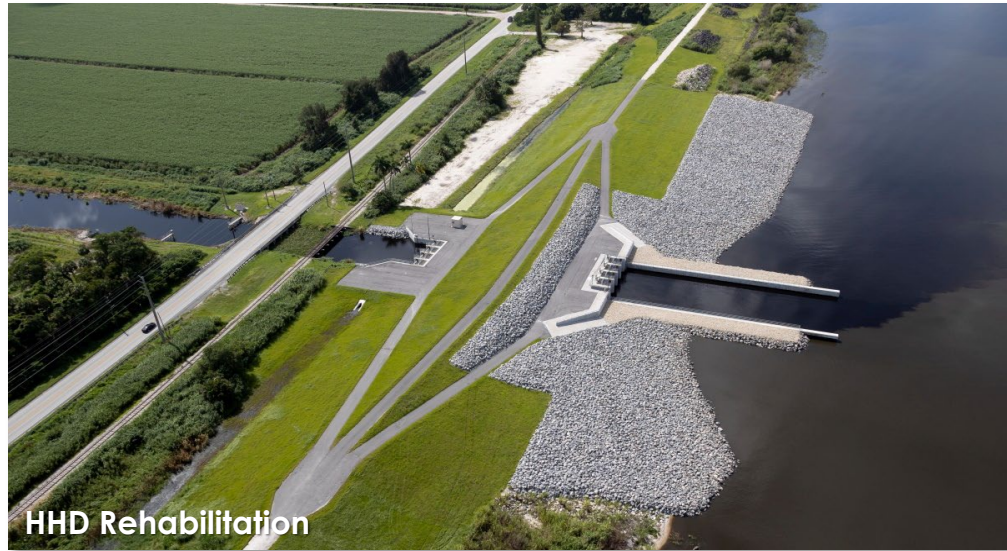




# IDS 2023: NON-CERP AND FOUNDATION PROJECTS



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>													
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W	
<b>NON-CERP AND FOUNDATION</b>																
P2	Herbert Hoover Dike <sup>3</sup>	N/A Non-CERP	—	—●												
P3	Lake Okeechobee System Operating Manual <sup>3</sup>		○○○○○	○○○○○	○○●											
P4	Restoration Strategies <sup>3</sup>		—	—	—	—●										
P5	Tamiami Trail Next Steps (TTNS) Phase 2 <sup>3</sup>		—	—	—	—	—●									
P6	KRR-Development of Operational Transition Plan/Evaluation Monitoring		○○○○○	○○○○○	○○○○○	○○○○○	○○○●△△△	△△△△△	△△△△△	△△△△△	△△△△△	△△△△△	△△●			
P7	C-111 South Dade Construction (complete)											●□□□●				
	C-111 South Dade - S-332 B Pump Station Replacement		●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●			
	C-111 South Dade - S-332 C Pump Station Replacement	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●				



HHD Rehabilitation



Tamiami Trail Bridge



Kissimmee River Restoration





U.S. ARMY

# IDS 2023: CERP GENERATION 1, WRDA 2007



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>												
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W
<b>CERP GENERATION 1 (AUTHORIZED IN WRDA 2007)</b>															
P8	<b>Picayune Strand Restoration</b>	OPE					●○○○○○	○○○○○●							
	Flood Protection Features - Conveyance		=====	=====	====●○○	○○○○○●									
	Flood Protection Features - Levee		=====	=====	====●										
	Road Removal		=====	====●											
	Canal Plugging		●=====	=====	=====	====●									
P9	<b>Indian River Lagoon-South</b>														
	C-44 Reservoir	B	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○●								
	C-44 STA and Pump Station	B	○○○○○●												
	C-23/24 Reservoir North	UU Phase 1	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	
	C-23/24 Reservoir South	UU Phase 1	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	
	C-23/24 STA	UU Phase 1	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	
	C-25 Reservoir and STA	UU Phase 1	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	
C-23 Estuary Discharge Diversion		●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●		
	Natural Water Quality Storage Areas, Muck Removal and Artificial Habitat Creation (Phase 2) - Director's Report and PPA - After Execution, SFWMD Leading Design and Construction	UU Phase 2	●●●●●●	●●●●●●	●●●●●●										



C-44 Reservoir



C-23/24 STA



Picayune Strand



Picayune Strand  
(Conservancy of Southwest Florida)





U.S. ARMY

# IDS 2023: CERP GENERATION 2, WRDA 2014



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>												
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W
<b>CERP GENERATION 2 (AUTHORIZED IN WRDA 2014)</b>															
P10	<b>Caloosahatchee River (C-43) West Basin Storage</b>	D						●□□□□	□□□□●						
	C-43 Reservoir		—	—	—	—●	◇◇◇◇◇	◇◇◇◇●							
	C-43 Pump Station		—●	◇◇◇◇◇	◇◇◇◇●										
P11	<b>Broward County Water Preserve Areas</b>														
	C-11 Impoundment	Q	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	◇◇◇◇◇	◇◇◇◇●	
	WCA 3A and 3B Seepage Management	O			●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	◇◇◇◇◇	◇◇◇◇●
C-9 Impoundment	R				●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
P12	<b>Biscayne Bay Coastal Wetlands</b>	FFF, OPE Phase 1					●□□□□	□□□□●							
	L-31 East Flow-way S-709 Pump Station (PS)		—	—●◇◇	◇◇◇◇●										
	L-31 East Flow-way S-705 PS		—	—	—●◇◇	◇◇◇◇●									
	L-31 East Flow-way S-703 PS		—	—	—●◇◇	◇◇◇◇●									
	L-31 East Flow-way S-710 PS, S-711 PS, and C-711W Seepage Canal		—	—	—	—●◇◇	◇◇◇◇●								
Cutler Wetlands		—●—	—	—	—●	◇◇◇◇●									
P13	<b>C-111 Spreader Canal Western Project</b> (Requires PPA – to be Reconciled in Parallel to BBSEER) SFWMD Led Design and Construction	WW Phase 1				●●●●●	●□□□□	□□□□●							
PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W



C-43 Reservoir Pump Intake Station



C-43 Reservoir Construction



Biscayne Bay Coastal Wetlands (Kiewit)



U.S. ARMY

# IDS 2023: CENTRAL EVERGLADES PLANNING PROJECT, WRDA 2016



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>											
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033
<b>CERP GENERATION 3 (AUTHORIZED IN WRDAS 2016, 2018, 2020)</b>														
P14	<b>Central Everglades Planning Project</b>													
	<b>CEPP South: Additional Outlet Structures Needed to Move More Water South</b>	AA, FF, H, QQ												
	Validation Report - S-152 and Backfill Treatments		.....	....●										
	S-152 and Existing Backfill Treatments (Permanent)		●○○○○○	○○●										
P14S	S-631, S-632, S-633 Structures; Gap in L-67C Levee; L- 67A Spoil Pile Removal		.....	●-----	-----	-----	-----	-----	-----●○○	○○○○●				
	S-356E Pump Station and S-334E Gated Spillway		.....	.....	....●---	-----	-----	-----	-----	-----	-----	○○○○○	○○○○●	
	Demolition of Existing S-356 Pump Station									●-----	-----	-----	-----	-----●
	Gated Spillway S-355W		.....	.....	●-----	-----	-----	-----	-----●○○	○○○○○	○○○○●			
	Removal of L-67C, Construct L-67D Levee and Gap in L-67C Levee N		●-----	.....	.....	.....	.....	.....	●-----	-----	-----	-----	○○○○●	
	Removal of L-29 Levee and L-67 Extension Levee, Backfill L-67 Ext Canal					●-----	.....	.....	.....	.....	●-----	-----	-----●○○	○○○○●
P14N	<b>CEPP North: Inflow Facilities Needed to Restore Northern WCA-3A and Move Additional Water South to Everglades</b>	QQ, II												
	Validation Report		.....	.....	.....●									
	L-4 Degrade, Pump Station S-630		.....	.....	.....	●-----	-----	-----	-----●	○○○○●				
	S-8 Pump Station Modifications		.....	.....	.....	●-----	-----	-----	-----	-----	○○○○○	○○○○●		
	L-6 Diversion		.....	●-----	-----	-----	-----	-----	-----	○○○○○	○○○○●			
	Miami Canal Backfill/Vegetated Hammocks		●-----	.....	.....	.....	.....	.....	.....	.....	.....	.....	○○○○○	○○○○●
	L-5 Canal Improvements		●-----	.....	.....	●-----	-----	-----	-----	-----	.....	.....	○○○○○	○○○○●
P14NW	<b>CEPP New Water: Seepage Management Needed to Move More Water into the Everglades</b>													
	Validation Report		●-----	.....	.....●									
	Seepage Barrier Wall	V	●-----	●-----	---●									
P15	<b>CEPP EAA: Moves New Water South, Stores it, and Treats it Before Going to the Everglades<sup>4</sup></b>	G, C, E												
	EAA Reservoir - A-2 STA		-----	-----●	○○○○○	○○○○●								
	EAA Reservoir - Canal Conveyance Improvements to North New River and Miami River Canals		.....	.....	●-----	-----	-----	-----	-----	-----	-----	○○○○●		
	EAA Reservoir - Seepage Canal (7.2 miles) and Inflow/Outflow Canal		-----	-----	-----●	○○○○○	○○○○●							
	EAA Reservoir - Foundation and Cutoff Wall		.....	●-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	EAA Reservoir - Embankment, Outlet Works and Inline Spillway		.....	.....	....●---	-----	-----	-----	-----	-----	-----	-----	○○○○○	○○○○●
	EAA Reservoir - S-636 Seepage Pump Station		●-----	.....	.....	....●---	-----	-----	-----	-----	-----	○○○○○	○○○○●	
	EAA Reservoir - Inflow Pump Station		.....	.....	....●---	-----	-----	-----	-----	-----	-----	○○○○○	○○○○●	





# IDS 2023: CERP GENERATION 4, WRDA 2020



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>												
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W
<b>CERP GENERATION 4 (AUTHORIZED IN WRDA 2020)</b>															
P16	<b>Loxahatchee River Watershed Restoration Project</b>	K, OPE	●-----	-----●	-----●										
	Flow-way 1 (M-1 Canal, G160/161 and Grassy Water Preserve)				●-----	-----●	●-----	-----●	-----●	-----●	-----●	-----●	-----●	-----●	-----●
	Flow-way 2 (C-18 Impoundment)			●-----	-----●	-----●	-----●	-----●	-----●	-----●	-----●	-----●	-----●	-----●	-----●
	Flow-way 2 (ASR Wells)							●-----	-----●	-----●	-----●	-----●	-----●	-----●	-----●
	Flow-way 3 (Kitching Creek, Moonshine Creek, Gulfstream East, Cypress Creek Canal, Gulfstream West, and Palmar East)		●-----	-----●	-----●	-----●	-----●	●-----	-----●	-----●	-----●	-----●	-----●	-----●	-----●







# IDS 2023: PLANNING PROJECTS



PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT	FISCAL YEAR (dollars in millions) <sup>1</sup>												
			2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W
P17	Lake Okeechobee Watershed Restoration Project <sup>5</sup>	GG, OPE													Dependent on Future WRDA Authorization. Construction and Funding TBD.
	ASR Wells - Design and Implementation by SFWMD		*****	*****	*****	*****	*****								
	Lake Okeechobee Watershed Wetlands Report		XXXXXX	XXXXXX	XXXXXX										Anticipate Authorization in WRDA 2024. Construction and Funding TBD.
	Lake Okeechobee Watershed ASR Report														Schedule Pending Additional Investigations.
P18	Western Everglades Restoration Project <sup>5</sup>	RR, CCC, QQ	XXXXXX	XXXXXX	XXXXXX										Anticipate Authorization in WRDA 2024. Construction and Funding TBD.
P19	Biscayne Bay Southeastern Everglades Ecosystem Restoration (BBSEER) <sup>5</sup>	BBB, FFF, HHH, WW, XX, OPE	XXXXXX	XXXXXX	XXXXXX	XXXXXX									Anticipate Authorization in WRDA 2026. Construction and Funding TBD.
P20	Southern Everglades <sup>5</sup>	BB, CC, EEE, QQ, S, U, YY, ZZ				●XXXXX	XXXXXX	XXXXXX	XXXXX●						Anticipate Authorization in WRDA 2028. Construction and Funding TBD.
P21	Lake Okeechobee Component A Reservoir (LOCAR) <sup>3,5</sup>	A		●XXX	XX●										Section 203 Feasibility Study of CERP Component A.



### ENVIRONMENTAL CONSIDERATIONS NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)

**WHAT IS NEPA?**  
NEPA is a federal law enacted in 1969. Under NEPA, federal agencies are required to evaluate the potential environmental impacts that a future project for action may have. These findings are captured in a detailed statement and are available for public review and comment before any decisions or actions are taken. Not all federal actions require a full Environmental Impact Statement (EIS). Due to the size and scope of the Western Everglades Restoration Project (WERP), the environmental documentation will be in the form of an EIS.

**ENVIRONMENTAL FRAMEWORK FOR PROJECT DEVELOPMENT AND IMPLEMENTATION**

COORDINATION with applicable environmental regulatory agencies

AVOIDANCE AND MINIMIZATION of environmental impacts to the maximum extent practicable

MITIGATION AND MONITORING where unavoidable impacts occur

**NEPA PROCESS**

**PUBLIC INVOLVEMENT IS KEY**  
Public input is vital to the success of a project. In addition to NEPA, we will use the IDACE planning process, one-on-one meetings, public hearings, and other methods to engage the public and stakeholders throughout the project development and implementation.

Project Information: Visit [www.westerneverglades.com](http://www.westerneverglades.com) for more information.

**WESTERN EVERGLADES RESTORATION PROJECT PRELIMINARY STUDY AREA**

### HUMAN & NATURAL ENVIRONMENT EVALUATING POTENTIAL BENEFICIAL & ADVERSE IMPACTS

Some of the human and natural environmental considerations that will be evaluated as part of the WERP and included in the EIS include:

- NATIVE AMERICANS**
- CULTURAL RESOURCES**
- WILDLIFE AND THEIR HABITAT**
- ENDANGERED SPECIES**
- LAND USE**
- WATER QUALITY**
- INVASIVE SPECIES**
- WATER SUPPLY & FLOOD PROTECTION**

For Additional Information: <http://bit.ly/WesternEverglades>

## BISCAYNE BAY AND SOUTHEASTERN EVERGLADES ECOSYSTEM RESTORATION (BBSEER)





# IDS PLACEMAT - PAGE 2



## SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT - 2023 FINAL DRAFT

### THE RESTORATION FRAMEWORK

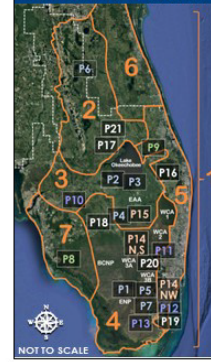
#### OPERATIONS IN SYNC WITH PROJECT DELIVERY

Restoration activities, including operational components recommended in the CERP, occur within the context of the larger, actively operated C&SF system. The C&SF Project includes 1,000+ miles of canals and levees and several hundred water control structures and pump stations providing the C&SF Congressionally authorized purposes of flood control, water supply, navigation, regional groundwater control, prevention of saltwater intrusion, recreation, and preservation of fish and wildlife.

#### COMPONENTS AND PROJECTS

The CERP identified 68 components that can contribute significantly to "getting the water right" and restoring the health of the ecosystem. Through a rigorous planning process, the components described in the CERP "Yellow Book" are combined into 50+ implementable projects that become part of the Integrated Delivery Schedule (IDS).

#### SOM VOLUMES BY REGION

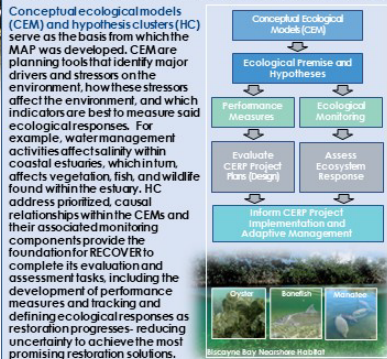


**System Operating Manuals: The Critical Last Step in Getting the Water Right and Achieving Maximum System-wide Benefits**  
Operating Manuals are the set of documents that describe how to operate components of the C&SF Project and CERP projects to ensure the goals and purposes of the projects are achieved. Operating Manuals for the CERP consist of a System Operating Manual (SOM) and Project Operating Manuals (POMs). Draft Project Operating Manuals (POMs) are initially developed during the planning phase of project delivery.

- The SOM consists of 7 Volumes, organized according to geographical regions, that collectively provide a system-wide framework for the operation of CERP components of the C&SF Project and CERP projects to ensure that projects function in a coordinated, systematic way.
- Updates to Operating Manuals: The Programmatic Regulations require that POMs be updated, as appropriate, for project construction and operational testing and monitoring phases, as well as when relevant CERP and non-CERP components come online. In turn, SOM Volumes are updated to include new or updated POMs.

### RECOVER APPLIED SCIENCE STRATEGY

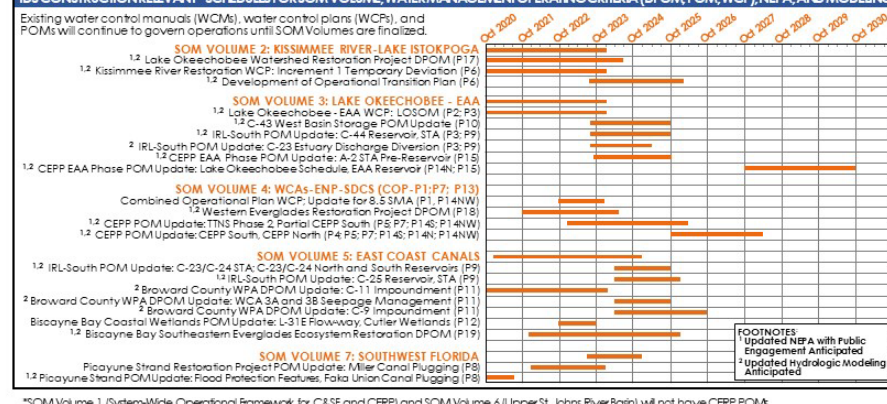
Restoration, Coordination and Verification (RECOVER) is an interagency and interdisciplinary scientific and technical team created to ensure that systemwide science guides CERP implementation. As such, RECOVER coordinates and applies an Applied Science Strategy to organize current scientific understandings of ecosystems into formats that can effectively support restoration efforts. This strategy employs the RECOVER monitoring and assessment plan (MAP) to measure systemwide responses to determine how well CERP is achieving its goals and objectives. Information collected through the MAP is used to continually improve CERP performance through application of adaptive management practices.



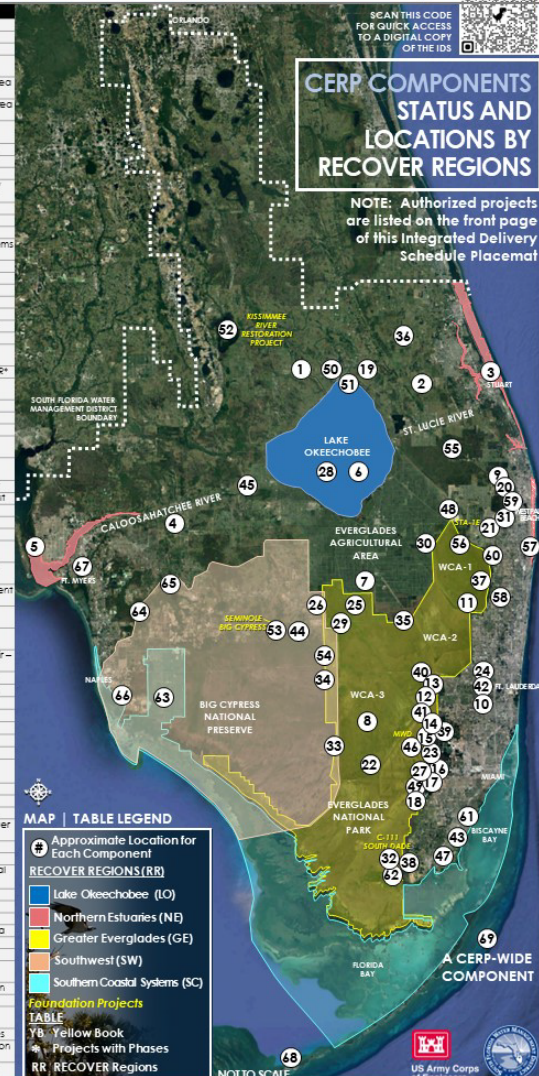
Conceptual ecological models (CEM) and hypothesis clusters (HC) serve as the basis from which the MAP was developed. CEM are planning tools that identify major drivers and stressors on the environment, how these stressors affect the environment, and which indicators are best to measure said ecological responses. For example, water management activities affect salinity within coastal estuaries, which in turn affects vegetation, fish, and wildlife found within the estuary. HC address prioritized causal relationships within the CEMs and their associated monitoring components provide the foundation for RECOVER to complete its evaluation and assessment tasks, including the development of performance measures and tracking and defining ecological responses as restoration progresses, reducing uncertainty to achieve the most promising restoration solutions.

Recently, RECOVER updated the CEM and HC to incorporate new science related to climate change, sea level rise, and invasive species. This effort, along with several other RECOVER initiatives over the next three years, will inform a revised MAP in FY26. A revised MAP will allow for consideration of new insights, programs, and changes in priorities that will improve RECOVER's ability to effectively and efficiently inform and assess CERP. Images courtesy of North Carolina State University, Florida Atlantic University, and SFWMD.

### IDS CONSTRUCTION RELEVANT\* SCHEDULES FOR SOM VOLUME, WATER MANAGEMENT OPERATING CRITERIA (DPOM, POM, WCP), NEPA, AND MODELING



#	RR	YB	YELLOW BOOK NAME
10	SC	L	Change Coastal Wetland Operations
11	GE	M	Site Impoundment with ASB*
16	GE	T	C-4 Structures
19	LD	W	Taylor Creek/Nubbin Slough Storage and Treatment Area*
25	GE	DD	Modified Holly Lora Wildlife Management Area Water Management Operations
26	SW	EE	Modified Roterberg Wildlife Management Area Water Management Operations
32	SC	OO	Modification to SDCS in southern portion of L-31N and C-111*
35	SC	WW	C-111 Spreader Canal - Phase 2 in Planning
42	GE	AAA	Lower East Coast Water Conservation
48	GE	GGG	C-81* and Southern L-8 Reservoir
50	LO	OPE	Lake Okeechobee Watershed Water Quality Treatment Facilities--Phase 2 in Planning
56	GE	OPE	Acme Basin B
57	NE	OPE	Lake Worth Lagoon Restoration*
58	GE	OPE	Wintersburg Farms Wetlands Restoration
60	GE	OPE	Protect and Enhance Existing Wetlands Systems along Lox (Strawzula Tract)
64	SW	OPE	Southern CREW Project Addition
65	SW	OPE	Lake Trafford Restoration
66	SW	OPE	Henderson Creek/Bee Meade Restoration
67	GE	OPE	Lake Park Restoration
68	SC	OPE	Florida Keys Tidal Restoration
69	ALL	OPE	Melaleuca Eradication and Other Exotic Plant Species Eradication
7	NE	B	Lucie C-44 Basin Storage Reservoir Environmental Water Supply Deliveries to St. Lucie Estuary
2	NE	D	Caloosahatchee Basin Storage Reservoir with ASB*
5	NE	E	Environmental Water Supply Deliveries to Caloosahatchee Estuary
7	GE	G	EAA Storage Reservoir
8	GE	H	Everglades Storm-Drain Operations*
9	GE	K	L-8 Project
12	GE	O	Water Conservation Area 3A and 3B Levee Seepage Management
13	GE	Q	Western C-11 Diversion Impoundment and Diversion Canal
14	GE	T	C-9 Stormwater Treatment Area/Impoundment
18	GE	V	L-31N Improvement for Seepage Management
22	GE	AA	Additional S-345 Structures*
27	GE	FF	Construction of S-366 and B Structures* Pump Station S-404 Modification
29	GE	II	Decommissioning of Water Conservation Area 3*
33	SW	GG	C-23, C-24, C-25 and Normork and southern Basin Storage Reservoirs
36	NE	UU	C-23, C-24, C-25 and Normork and southern Basin Storage Reservoirs
55	GE	OPE	Pal Mar and J.W. Corbett Wildlife Management Area Hydropattern Restoration
61	SC	OPE	Biscayne Bay Coastal Wetlands--Phase 2 in Planning
63	SW	OPE	Southern Golden Gate Estates Hydrologic Restoration
1	LO	A	North of Lake Okeechobee Storage Reservoir--Section 203 Study
28	LO	GG	Lake Okeechobee Aquifer Storage and Recovery
34	SW	EE	Flow to Central Water Conservation Area 3A
39	GE	XX	North Lake Belt Storage Area
43	GE	BB	South Miami Dade County reuse
44	SW	CCC	Big Cypress/L-25 Interceptor Modification
47	SC	FF	Biscayne Bay Coastal Wetlands
49	SC	HH	West Miami Dade Reuse
6	LO	F	Lake Okeechobee Regulation Schedule*
18	GE	S	Central Lakebelt Storage Area
17	GE	U	Brin Drive Recharge Basin
20	GE	X	C-17 Backpumping
21	GE	Y	C-81 Backpumping to West Palm Beach Water Control Area
23	GE	BB	Dade Broward Levee/Pennsula Wetlands Broward County Secondary Canal System
24	GE	CC	Loxahatchee National Wildlife Refuge Internal Canal Structures
30	GE	KK	L-81 Regional Groundwater ASB*
31	GE	LL	C-81 Regional Groundwater ASB*
37	GE	VV	Palm Beach County Agricultural Reserve Reservoir
40	GE	YY	Divert WCA-2 Flows to Central Lake Belt Storage Area
41	GE	ZZ	Divert WCA-3 Flows to Central Lake Belt Storage Area
48	NE	DD	Caloosahatchee Backpumping with STA
49	NE	EE	Flows to Eastern Water Conservation Area
51	LO	OPE	Lake Okeechobee Tributary Sediment Dredging/Phosphorus Removal
52	LO	OPE	Lake Istokpoga Regulation Schedule Modification
54	SW	OPE	Miccosukee Water Management Plan Restoration of Pineand & Harwood Hammocks in C-111 Basin
62	SC	OPE	Restoration of Pineand & Harwood Hammocks in C-111 Basin
35	SC	SS	Re-route Miami-Dade Water Supply Deliveries
53	SC	SS	Seminole Tribe Big Cypress Water Conservation Plan (East and West)
59	GE	OPE	Palm Beach County Wetlands-based Water Reclamation





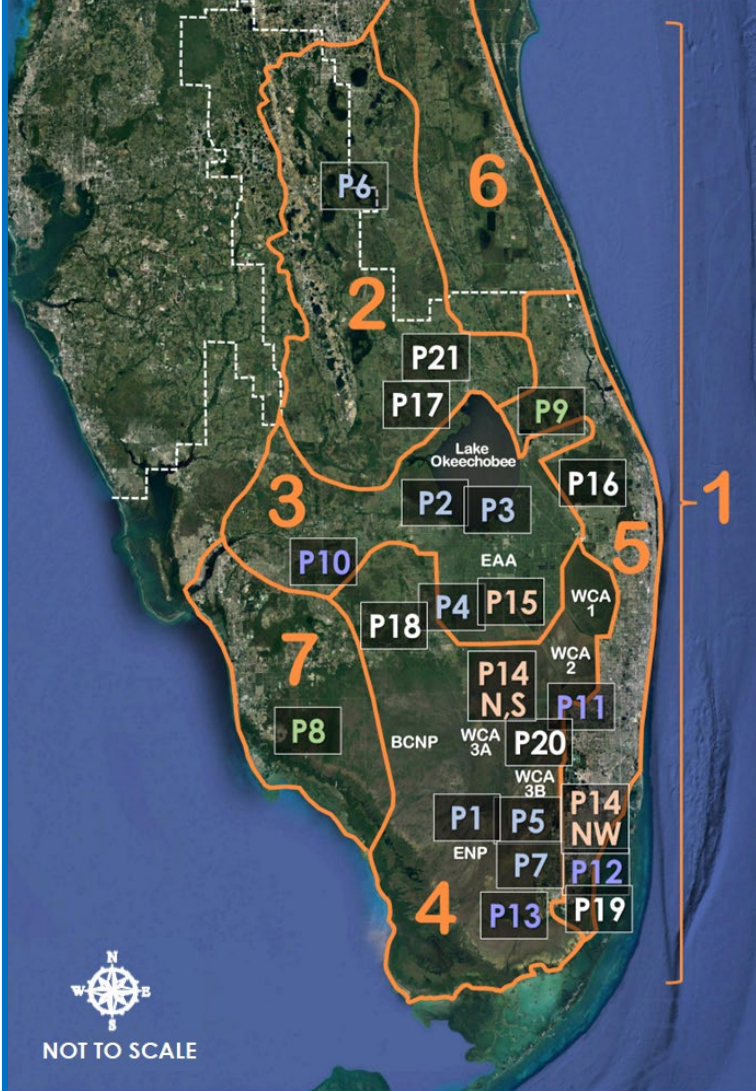


U.S. ARMY

# IDS 2023: GETTING THE WATER RIGHT



## SOM VOLUMES BY REGION



## THE RESTORATION FRAMEWORK

### OPERATIONS IN SYNC WITH PROJECT DELIVERY

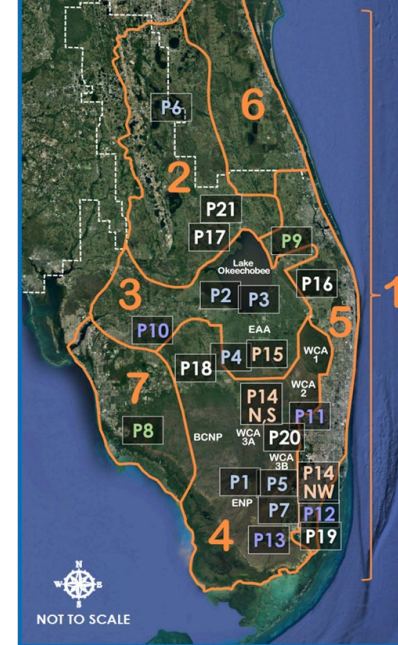
Restoration activities, including operational components recommended in the CERP, occur within the context of the larger, actively operated C&SF system. The C&SF Project includes 1,000+ miles of canals and levees and several hundred water control structures and pump stations providing the C&SF Congressionally authorized purposes of flood control, water supply, navigation, regional groundwater control, prevention of saltwater intrusion, recreation, and preservation of fish and wildlife.

### COMPONENTS AND PROJECTS

The CERP identified 68 components that can contribute significantly to "getting the water right" and restoring the health of the ecosystem. Through a rigorous planning process, the components described in the CERP "Yellow Book" are combined into 50+ implementable projects that become part of the Integrated Delivery Schedule (IDS).



## SOM VOLUMES BY REGION

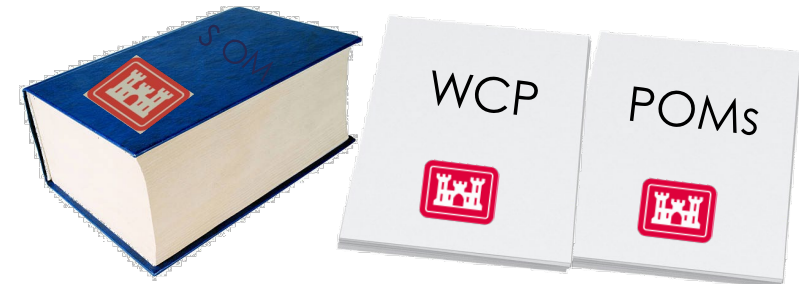


### System Operating Manuals: The Critical Last Step In Getting the Water Right and Achieving Maximum System-wide Benefits

Operating Manuals are the set of documents that describe how to operate components of the C&SF Project and CERP projects to ensure the goals and purposes of the projects are achieved. Operating Manuals for the CERP consist of a System Operating Manual (SOM) and Project Operating Manuals (POMs). Draft Project Operating Manuals (DPOMs) are initially developed during the planning phase of project delivery.

- The SOM consists of 7 Volumes, organized according to geographical regions, that collectively provide a system-wide framework for the operation of components of the C&SF Project and CERP projects to ensure that projects function in a coordinated, systematic way.
- Updates to Operating Manuals: The Programmatic Regulations require that POMs be updated, as appropriate, for project construction and operational testing and monitoring phases, as well as when relevant CERP and non-CERP components come online. In turn, SOM Volumes are updated to include new or updated POMs.

## System Operating Manual



NOTE: Project Locators correspond to IDS Front Placemat





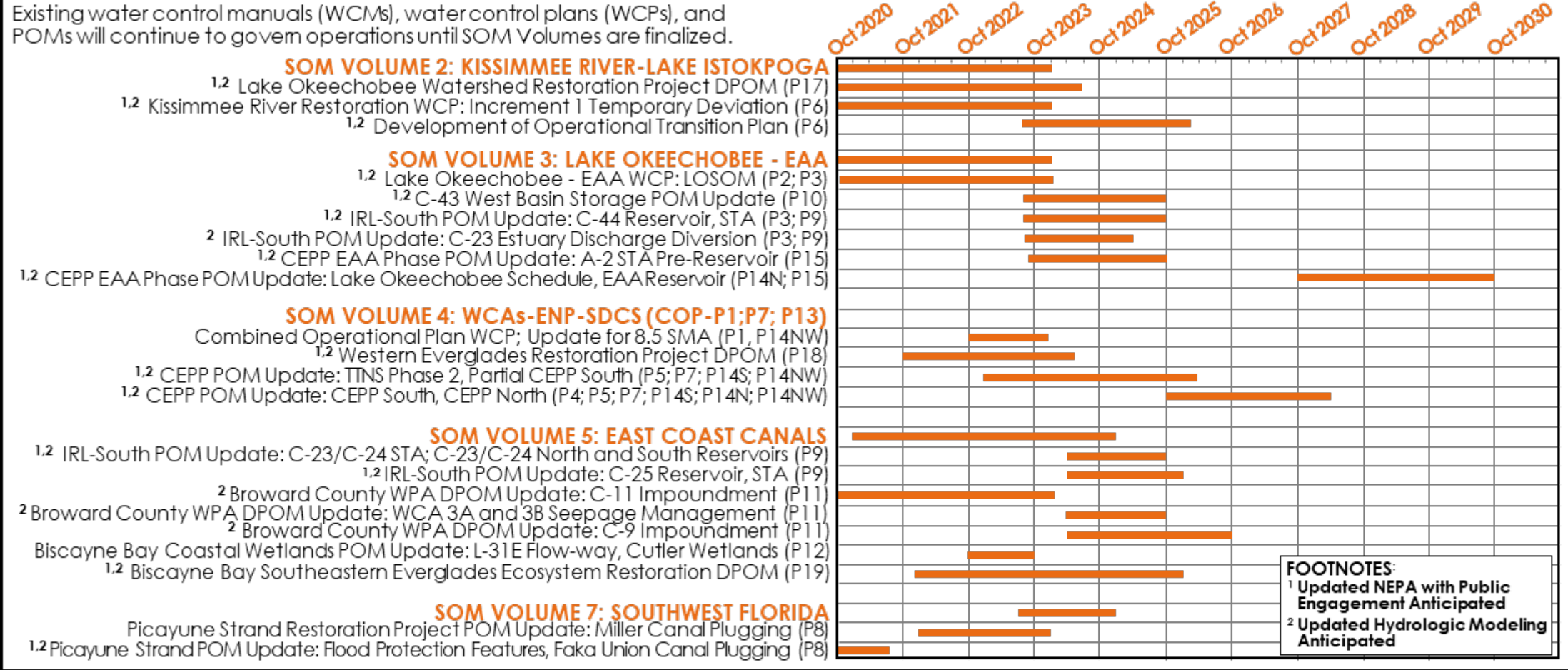
U.S. ARMY

# IDS 2023: GETTING THE WATER RIGHT



## IDS CONSTRUCTION RELEVANT \*SCHEDULES FOR SOM VOLUME, WATER MANAGEMENT OPERATING CRITERIA (DPOM, POM, WCP), NEPA, AND MODELING

Existing water control manuals (WCMs), water control plans (WCPs), and POMs will continue to govern operations until SOM Volumes are finalized.



\*SOM Volume 1 (System-Wide Operational Framework for C&SF and CERP) and SOM Volume 6 (Upper St. Johns River Basin) will not have CERP POMs.

### System Operating Manuals: the Critical Last Step in Getting the Water Right and Achieving Maximum System-wide Benefits





U.S. ARMY

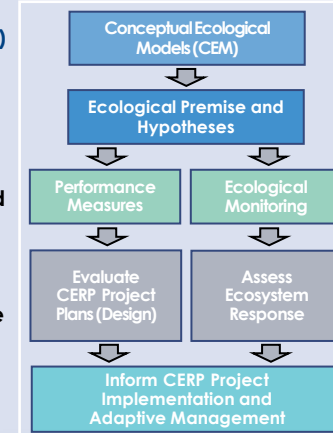
# IDS 2023: RECOVER APPLIED SCIENCE STRATEGY



## RECOVER APPLIED SCIENCE STRATEGY

**RECOVER** Restoration, COordination and VERification (RECOVER) is an interagency and interdisciplinary scientific and technical team created to ensure that systemwide science guides CERP implementation. As such, RECOVER coordinates and applies an Applied Science Strategy to organize current scientific understandings of ecosystems into formats that can effectively support restoration efforts. This strategy employs the RECOVER monitoring and assessment plan (MAP) to measure systemwide responses to determine how well CERP is achieving its goals and objectives. Information collected through the MAP is used to continually improve CERP performance through application of adaptive management practices.

Conceptual ecological models (CEM) and hypothesis clusters (HC) serve as the basis from which the MAP was developed. CEM are planning tools that identify major drivers and stressors on the environment, how these stressors affect the environment, and which indicators are best to measure said ecological responses. For example, water management activities affect salinity within coastal estuaries, which in turn, affects vegetation, fish, and wildlife found within the estuary. HC address prioritized, causal relationships within the CEMs and their associated monitoring components provide the foundation for RECOVER to complete its evaluation and assessment tasks, including the development of performance measures and tracking and defining ecological responses as restoration progresses- reducing uncertainty to achieve the most promising restoration solutions.



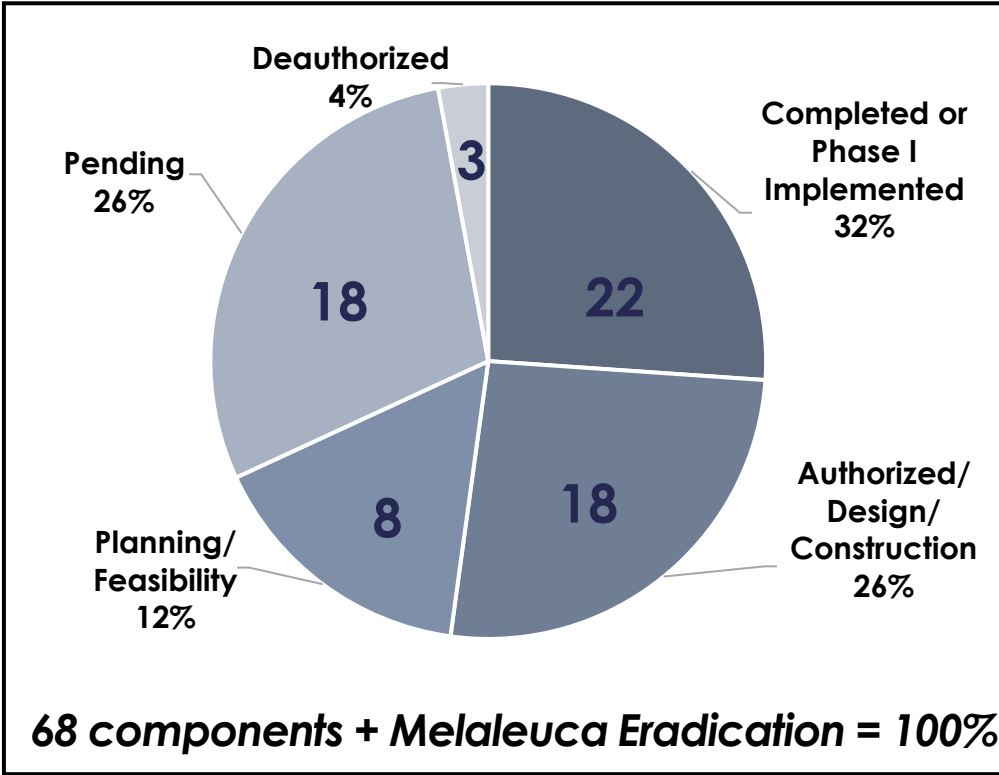
Recently, RECOVER updated the CEM and HC to incorporate new science related to climate change, sea level rise, and invasives species. This effort, along with several other RECOVER initiatives over the next three years, will inform a revised MAP in FY26. A revised MAP will allow for consideration of new insights, programs, and changes in priorities that will improve RECOVER's ability to effectively and efficiently inform and assess CERP. Images courtesy of: North Carolina State University; Florida Atlantic University; and SFWMD.





U.S. ARMY

# IDS 2023: 68 COMPONENTS OVERALL STATUS



Note: The category of "Complete" includes components where at least one separable feature of the component has been completed/implemented. May include instances where there is a Phase II that has not yet been implemented.

## Terminology Overview:

- **Completed or Phase I Implemented:** partially or completely constructed and operational
- **Authorized/Design/Construction:** project approved by WRDA. Start or continue implementation activities
- **Planning/Feasibility:** currently evaluated for future implementation
- **Deauthorized:** due to lack of funding and activity. May be considered in a future PIR
- **Pending:** to be considered in an upcoming study

- **The Yellow Book continues to be our roadmap**
- **RECOVER Regions**





U.S. ARMY



# USACE Jacksonville District South Florida Water Management District



**THANK YOU!**