LE 2023 I ERY SCI SOUTH FLORIDA ECOSYSTEM RESTORATION | CENTRAL AND SOUTHERN FLORIDA COMPREHENSIVE EVERGLADES RESTORATION PLAN



Non-federal

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 (SEER) 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										
		USACE	DOI	TOTAL	MULTIPLE AGENCIES	GRAND TOTAL								
	Modified Water Deliveries to ENP	\$ 78	\$ 317	\$ 395	-	\$ 395								
	Critical Projects	\$89	-	\$89	\$88	\$ 177								
n	Kissimmee River Restoration	\$ 40 9	-	\$ 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								
	TOTAL SFER	\$ 3,524	\$ 482	\$ 4,005	\$ 4,190	\$ 8,195								
	Herbert Hoover Dike	\$ 1,511	-	\$ 1,511	\$ 100	\$ 1,611								
	Restoration Strategies and ECP	-	-	-	\$ 2,446	\$ 2, 4 46								



			-
Does not reflect budgetary development dollars or capability	••	Design, PPA Execution, Real Estate Acquisition	
Expected WRDA year	•——•	Construction (Initiated by award of construction contract)	SCAN
Project Implementation Report	00000	Operational Plan	FOR
Project Implementation Report with Exemption	0000	Operational Testing and Monitoring Period	TO A

		Construction (Initiated by award of construction contract) Operational Plan Operational Testing and Monitoring Period							FOR G	SCAN THIS CODE FOR QUICK ACCESS TO A DIGITAL COPY OF THE IDS									
PROJECT LOCATOR	PROJECT	YELLOW BOOK COMPONENT					FISC	AL YEAR (do	ollars in mill	ions) ¹									
			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)++ ²		\$ 352	\$ 1,128															
	Planning Estimates Non-Federal Construction Cost (SFER)++		\$ 332	\$ 343	\$ 2,000	\$1,482	\$ 1,506	\$ 1,885	\$ 790	\$ 444	\$ 337	\$ 239	\$ 85	\$ 36	\$ 37				
	Planning Estimates Total Construction Cost (SFER)++		\$ 679	\$ 1,471	1														
NON-CERP AND FOUNDATION																			
P2	Herbert Hoover Dike ³			-•															
P3	Lake Okeechobee System Operating Manual ³		00000	00000	00●														
P4	Restoration Strategies ³					-•													
P5	Tamiami Trail Next Steps (TTNS) Phase 2 ³	N/A					-•												
P6	KRR-Development of Operational Transition Plan/Evaluation Monitoring	Non-CERP	00000	00000	00000	00000	000 ●∆∆∆	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔ●							
	C-111 South Dade Construction (complete)										••								
P7	C-111 South Dade - S-332 B Pump Station Replacement						•	000000											
	C-111 South Dade - S-332 C Pump Station Replacement								 •0000	$\Diamond \Diamond \bullet$									
		CERP G	ENERATION	1 (AUTHOR	IZED IN WR	DA 2007)													
	Picayune Strand Restoration	OPE					•=====	• • • • • •											
	Flood Protection Features - Conveyance				•00	00000●													
P8	Flood Protection Features - Levee				•														
	Road Removal			•															
	Canal Plugging		•			•													
	Indian River Lagoon-South																		
	C-44 Reservoir	В	000000	000000	000000	000000	$\Diamond \Diamond \bullet$												
	C-44 STA and Pump Station	В	00000																
	C-23/24 Reservoir North	UU Phase 1									•	000000	00000						
P9	C-23/24 Reservoir South	UU Phase 1									•	000000	00000						
	C-23/24 STA	UU Phase 1				•	00000•												
	C-25 Reservoir and STA	UU Phase 1	•••••						•	00000									
	C-23 Estuary Discharge Diversion			•		•00	00•												
	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	•		···••														
		CERP G	ENERATION	2 (AUTHOR	IZED IN WR	DA 2014)													
	Caloosahatchee River (C-43) West Basin Storage	D						•	• • • • • •										

	Caloosahatchee River (C-43) West Basin Storage	D						•=====	●								
P10	C-43 Reservoir					•	000000	00000.									
	C-43 Pump Station		•	000000	00000.									· · · · · ·			
	Broward County Water Preserve Areas											1		├─── ┦	├─── ┦		
		0															
P11	C-11 Impoundment	Q	•••••									·•	000000	00000•	ļ/		
	WCA 3A and 3B Seepage Management	0			•		•••••	•				•	000000	00000●			
	C-9 Impoundment	R				•		•							•		
	Biscayne Bay Coastal Wetlands	FFF, OPE Phase 1					•=====	• • • • • •									
	L-31 East Flow-way S-709 Pump Station (PS)			• \	000000									· · · · · ·			
	L-31 East Flow-way S-705 PS				•\\	00000•											
P12	L-31 East Flow-way S-703 PS				 •◊◊	00000•				1	1						
	L-31 East Flow-way S-710 PS, S-711 PS, and C-711W Seepage Canal				•~~	•00	00000•					-					
												-		↓ /	└────		
	Cutler Wetlands					•	00000•			ļ				\square			
P13	C-111 Spreader Canal Western Project (Requires PPA – to be Reconciled In Parallel to BBSEER) SFWMD Led Design and Construction	WW Phase 1				•	•	••••••						/			
PROJECT	In a didici to bballer a trand led beaging and considerion	YELLOW BOOK										-					
LOCATOR	PROJECT	COMPONENT	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032 W	2033	2034 W		
		CERP GENERA															
-						,									├─── ┦		
P14	Central Everglades Planning Project																
	CEPP South: Additional Outlet Structures Needed to Move More Water South	AA, FF, H, QQ															
	Validation Report - S-152 and Backfill Treatments																
	S-152 and Existing Backfill Treatments (Permanent)		•00000	00•													
	S-631, S-632, S-633 Structures; Gap in L-67C Levee; L- 67A Spoil Pile Removal		•••••	•				 •↔	00000•								
D140									vvvvv•			AAAAA	00000	├ ───┦	l/		
P14S	S-356E Pump Station and S-334E Gated Spillway				•						•	000000	00000●	 /			
	Demolition of Existing S-356 Pump Station								•				•	•			
	Gated Spillway S-355W		•••••		•——			•◊◊	000000	$00000 \bullet$							
	Removal of L-67C, Construct L-67D Levee and Gap in L-67C Levee N		•					•			•	$00000 \bullet$					
	Removal of L-29 Levee and L-67 Extension Levee, Backfill L-67 Ext Canal					•				•		 •◊◊	00000.				
	CEPP North: Inflow Facilities Needed to Restore Northern WCA-3A and	00.1										1		· · · · · ·			
	Move Additional Water South to Everglades	QQ, II															
	Validation Report				•••••												
	L-4 Degrade, Pump Station S-630					•		•	00000								
P14N	S-8 Pump Station Modifications									000000	000000						
	L-6 Diversion			•				000000	00000•								
	Miami Canal Backfill/Vegetated Hammocks							~~~~~	~~~~				00000	 /	├ ───┦		
							•				•	000000	00000•	 /	ļ/		
	L-5 Canal Improvements		•••••			•					•	000000	00000	Ļ/	ļ/		
	CEPP New Water: Seepage Management Needed to Move More Water into the Everglades													1 /			
P14NW	Validation Report		•••••														
		N (•			ļ/								───┦	↓ /		
	Seepage Barrier Wall	V	•••••	•——	-•	ļ/								Ļ/	ļ/		
	CEPP EAA: Moves New Water South, Stores it, and Treats it Before Going to the Everglades ⁴	G, C, E												/			
	EAA Reservoir - A-2 STA				000000	00000•											
	EAA Reservoir - Canal Conveyance Improvements to North New				~~~~~	~~~~								 /			
	River and Miami River Canals				•——			•	000000					/			
P15	EAA Reservoir - Seepage Canal (7.2 miles) and Inflow/Outflow Canal				•	000000	000000					1					
	EAA Reservoir - Foundation and Cutoff Wall								-								
				•					•			00000	AAAAA	L			
	EAA Reservoir - Embankment, Outlet Works and Inline Spillway		•••••								•	000000	00000•	↓ /	└─── ∕		
	EAA Reservoir - S-636 Seepage Pump Station		•		•••••	•			•	000000	00000						
	EAA Reservoir - Inflow Pump Station									•	000000	00000•					
		CERP GE	NERATION	4 (AUTHOR	IZED IN WR	DA 2020)											
	Loxahatchee River Watershed Restoration Project	K, OPE	•														
	Flow-way 1 (M-1 Canal, G160/161 and Grassy Water Preserve)				•••••		•			00000•							
	Flow-way 2 (C-18 Impoundment)			•									000000	00000			
P16													~~~~~				
	Flow-way 2 (ASR Wells)							•••••			•		•	00000•			
	Flow-way 3 Kitching Creek, Moonshine Creek, Gulfstream East, Cypress Creek Canal, Gulfstream West, and Palmar East)		•••••				•						•	000000	00000•		
	Entre Stock Carlay Consticant Host, and Fairlai East				G PHASE												
B17	Lake Okeeshahaa Watershad Perterstian Projects				I IIAJE				Denond	ent on Euter		uthorization	Construct	tion and Eur			
P17	Lake Okeechobee Watershed Restoration Project ⁵										. Construct		iaing ibu.				
	ASR Wells - Design and Implementation by SFWMD																
	Lake Okeechobee Watershed Wetlands Report		XXXXXX	XXXXXX									-				
	Lake Okeechobee Watershed ASR Report											Schedule P	ending Add	ditional Inve	stigations.		
P18	Western Everglades Restoration Project⁵	RR, CCC, QQ	XXXXXX	XXXXXX	XXXXX •				Antic	cipate Auth	orization in	WRDA 202	4. Construc	tion and Fur	nding TBD.		
B10	Biscovne Boy Southeastern Everalades Econvatorn Besterntion (BBSEED)5	BBB, FFF, HHH,								Anticipate Authorization in WRDA 2026. Construction and Funding							
P19	Biscayne Bay Southeastern Everglades Ecosystem Restoration (BBSEER) ⁵	WW, XX, OPE	XXXXXX	XXXXXX	XXXXXX	XXXXXX•			An	mcipate Au	morization i	IN WKDA 202	20. Construc	mon and Fu	naing IBD.		
		BB, CC, EEE, QQ,					xxxxxx	VVV				Antici		rization in W			
1 P20		S, U, YY, ZZ				•XXXXX	******	XXXXXX	*****	Construction and Funding T							
P20	Southern Everglades⁵	5, 0, 11, LL											CEPP C	monont A			
P20 P21	Lake Okeechobee Component A Reservoir (LOCAR) ^{3,5}	A		•xxx											iponeni A.		
	Lake Okeechobee Component A Reservoir (LOCAR) ^{3,5}	A DDD, F, VV, X, Y,	FOOTNOTE				af augus-set. 1								iponeni A.		
P21	Lake Okeechobee Component A Reservoir (LOCAR) ^{3,5} PENDING: Please refer to the CERP Components Map on Page 2 Ustart of "Pending" CERP Component Fegsibility Studies will be	A DDD, F, VV, X, Y,	FOOTNOTE 1: Once at 2: FY 2022			construction	of current plo	anning proje structure Law	cts will increc funds.	ase annual e					iponeni A.		
P21	Lake Okeechobee Component A Reservoir (LOCAR) ^{3,5} PENDING: Please refer to the CERP Components Map on Page 2 Ustart of "Pending" CERP Component Fegsibility Studies will be	A DDD, F, VV, X, Y, KK, LL,OPE(4); Phased: D,H,	FOOTNOTE 1: Once a 2: FY 2022 3: Funded			construction cation for Bip thorities or by	of current plo oartisan Infras y other entitie	anning proje structure Law es.	cts will increa funds.	ase annual e					iponeni A.		
P21	Lake Okeechobee Component A Reservoir (LOCAR) ^{3,5}	A DDD, F, VV, X, Y,	FOOTNOTE 1: Once a 2: FY 2022 3: Funded 4: Require: 5: Constru			construction ocation for Bip uthorities or by eyance struct	of current plo partisan Infra y other entitie ures to maxi	anning proje structure Law es. mize operati	cts will increa funds. onal flexibility	 ase annual e y.					iponeni A.		

SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGH

Conceptual Ecolog

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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).



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.

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



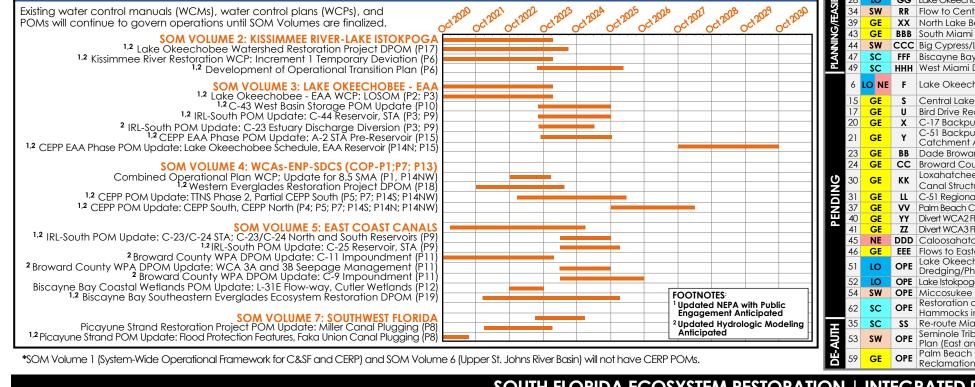
REstoration, COordination and VERification (RECOVER) is an interagency and interdisciplinary scientific and technical team created to ensure that systemwide science guides CERP implementation. As such, RECOVER coordinate

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 specie. 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.

		#	RR	YB	YELLOW BOOK NAME	
		10	SC	L	Change Coastal Wellfield Operations	
OVER)		11	GE	M	Site 1 Impoundment with ASR*	
		16	GE	T	C-4 Structures	
science		19	LO	w	Taylor Creek/Nubbin Slough Storage and	
ordinates	Ē	17	10		Treatment Area*	
cientific	Z	25	GE	DD	Modified Holy Land Wildlife Management Area Water Management Operations	
support	IMPLEMENTED	~	C14/		Modified Rotenberger Wildlife Management Area	n in the second
ig and		26	SW	EE	Water Management Operations	10.0
etermine		32	sc	00	Modification to SDCS in southern portion of	78.4.4
n	≥	38	SC	ww	L-31N and C-111*	
		42	GE		C-111 Spreader Canal* – Phase 2 in Planning Lower East Coast Water Conservation	
actices.	S S	48	GE		C-51* and Southern L-8 Reservoir	
	≰	50	LO	OPE	Lake Okeechobee Watershed Water Quality	
al	ᆂ				Treatment Facilities*– Phase 2 in Planning	
	R	56	GE		Acme Basin B	
		57 58	NE		Lake Worth Lagoon Restoration*	
ind			GE		Winsberg Farms Wetlands Restoration Protect and Enhance Existing Wetlands Systems	
		60	GE	OPE	along Lox (Strazzulla Tract)	
	Σ	64	SW		Southern CREW Project Addition	en al
ogical	COMPLETE OR PHASE	65	SW		Lake Trafford Restoration	
itoring		66	SW		Henderson Creek/Belle Meade Restoration	
		67 68	GE SC	-	Lake Park Restoration Florida Keys Tidal Restoration	and the
		69	ALL		Melaleuca Eradication and Other Exotic Plants	
ssess system		2	NE	В	St. Lucie/C-44 Basin Storage Reservoir	Prost
ponse		3	NE	с	Environmental Water Supply Deliveries to	the charge
	_	4	NE	D	St. Lucie Estuary Caloosahatchee Basin Storage Reservoir with ASR*	TOP STATE
	CONSTRUCTION				Environmental Water Supply Deliveries to	
	Ĕ	5	NE	E	Caloosahatchee Estuary	SOUTH FI
ent	IS	7	GE	G	EAA Storage Reservoir	MANAGE
The second	Ĩ	8 9	GE GE	H K	Everglades Rain-Driven Operations* L-8 Project	
	l S				Water Conservation Area 3A and 3B Levee	Staller.
	0	12	GE	0	Seepage Management	
Manatee	10	13	GE	Q	Western C-11 Diversion Impoundment and	
	z	14	GE	R	Diversion Canal C-9 Stormwater Treatment Area/Impoundment	
15	DESIGN	18	GE	v	L-31N Improvements for Seepage Management	
	ビ ビ	22	GE	AA	Additional S-345 Structures*	And
		27	GE	FF	Construction of S-356 A and B Structures*	
19200-15		29	GE	Ш	Pump Station G-404 Modification Decompartmentalization of Water	(5)
ew	AUTHORIZED	33	SW	QQ	Conservation Area 3*	9
s species. e next	N N	36	NE	υU	C-23, C-24, C25 and Northfork and Southfork	~
will allow	F				Basins Storage Reservoirs Pal Mar and J.W. Corbett Wildlife Management	
riorities	5	55	GE	OPE	Area Hydropattern Restoration	
y inform	◄	61	sc	OPE	Biscayne Bay Coastal Wetlands* – Phase 2	
y; Florida					in Planning Southern Golden Gate Estates	
		63	SW	OPE	Hydrologic Restoration	
	~	1	LO	Α	North of Lake Okeechobee Storage Reservoir -	
ODELING	Ĕ	28	LO	GG	Section 203 Study Lake Okeechobee Aquifer Storage and Recovery*	
an an	ASI	34	SW	RR	Flow to Central Water Conservation Area 3A	
0ct2030	E	39	GE	XX	North Lake Belt Storage Area	
	Р В	43	GE	BBB	South Miami Dade County Reuse	
	Ę	44	SW		Big Cypress/L-28 Interceptor Modification	
	PLANNING/FEASIBI	47	SC	FFF	Biscayne Bay Coastal Canals	
		49	SC	ннн	West Miami Dade Reuse	
		6	LO NE	F	Lake Okeechobee Regulation Schedule*	*
[]		15	GE	S	Central Lakebelt Storage Area	₩ 💓 E
		17	GE	U	Bird Drive Recharge Basin	
		20	GE	Х	C-17 Backpumping C-51 Backpumping to West Palm Beach Water	MAP
		21	GE	Y	Catchment Area	
		23	GE	BB	Dade Broward Levee/Pennsuco Wetlands	H H Ea
		24	GE	сс	Broward County Secondary Canal System	
	<u>0</u>	30	GE	КК	Loxahatchee National Wildlife Refuge Internal Canal Structures	RECOV
[]	ENDING	31	GE	LL	C-51 Regional Groundwater ASR	La
	١Ð	37	GE	VV	Palm Beach County Agricultural Reserve Reservoir	
	H	40	GE	YY	Divert WCA2 Flows to Central Lake Belt Storage	No No
[]		41	GE	ZZ	Divert WCA3 Flows to Central Lake Belt Storage Area	Gi
		45 46	NE GE	DDD EEE	Caloosahatchee Backpumping with STA Flows to Eastern Water Conservation Area	the for
					Lake Okeechobee Tributary Sediment	Sc
[]		51	LO	OPE	Dredging/Phosphorus Removal	So
		52	LO	OPE	Lake Istokpoga Regulation Schedule Modification	
Public		54	SW	OPE	Miccosukee Water Management Plan Restoration of Pineland & Hardwood	Found
ated		62	SC	OPE	Hammocks in C-111 Basin	TABLE
Modeling	E	35	SC	SS	Re-route Miami-Dade Water Supply Deliveries	YB Ye
	Į	53	SW	OPE	Seminole Tribe Big Cypress Water Conservation Plan (East and West)	* Pro
	Ш	59	GE	OPE	Palm Beach County Wetlands-based Water	RR RE
		57	21		Reclamation	1 A 10



SOUTH FLORIDA ECOSYSTEM RESTORATION | INTEGRATED DELIVERY SCHEDULE

Concep (CEM) a serve as MAP wa planning drivers a environim affect th indicato

