ADAPTIVE MANAGEMENT TO ESTABLISH FLOW WAY AND PLUGS (REMOVE THE CLOG)

Working Group Sponsored Public Workshop
Central Everglades Planning Project
February 13, 2013 Configuration Exercise:
Implementation Sequencing and Adaptive Management

Configuration Name: REMOVE THE ~~CLOG~~ (CLOG) Page # 1

Author: DREW MARTIN, ROSA OURANDO, JON ULLMAN

	Components List the components in your proposed order here. Number them in order.	Reasoning Explain your logic for the order of components here.	Adaptive Management Describe how and where adaptive management could inform the implementation of CEPP.
*	TAMIAMI TRAIL BRIDGING (GIVEN)	WITHOUT BRIDGE WILL NOT WORK	CEPP NEEDS TO PUSH BRIDGING
1	REMOVE WESTERN 2.9 MILES OF L-4	WE NEED TO RECOVER HABITAT	WE COULD SEE HOW HABITAT IS IMPROVED
2	L-5 CANAL IMPROVEMENTS S8 MODIFICATIONS	" " " "	" " "
3	DIVERSION OF L-6 FLOWS	REDUCE FIRE RISK	INCREASE HABITAT ESTABLISH FLOW WAY
4	INCREASE S-333 CAPACITY TO 2500 CFS	BEGIN TO SEND WATER TO PARK	PARK NEEDS IMMEDIATE RELIEF
5	CONSTRUCT NORTHERN 67A GATED ST.	OPEN UP WCA 3B TO WATER	REHYDRATE 3B
~~5~~	~~REMOVE ENTIRE 5.5 MILES L-67 AND BACKFILL L-67 EXTENSION CANAL~~		
6	CONSTRUCT DIVIDE STRUCTURES EAST OF BLUE SHANTY	KEEP WATER FROM POOLING IN 3B	NEED WATER MOVING INTO SHARK RIVER SLOUGH
7	REMOVE ENTIRE 5.5 MILES L-67 EXTENSION ~~LEVEE~~ LEVEE	OPEN UP DRY AREAS OF THE PARK KEEP WATER FLOWING	PARK NEEDS TO OPEN UP IMPRIDMENTS TO FLOW IN PARK
8	L-28 TRIANGLE LEVEE GAP	KEEP WESTERN AREAS WET	NEED TO REHYDRATE WESTERN AREAS OF WCA
9	CONSTRUCT A2 FEB AND INTEGRATE WITH A-1 FEB	WORK WATER QUALITY IN TANDEM	KEEP IMPROVING WATER QUALITY
10	BACKFILL MIAMI CANAL		
11	REMOVE ~6 MILE OLD TAMIAMI TRAIL	OPEN UP PARK AREA TO MORE WATER TO SHARK RIVER	BEGIN IMPROVING FLORIDA BAY WATER QUALITY
12	PARTIAL DEPTH SEEPAGE BARRIER INCREASE S-356 PUMP STATION	BEGIN DEALING WITH SEEPAGE WORK IN TANDEM	MAKE SURE AQUIFERS REMAIN HYDRATED TO STOP SALT WATER INTRUSION

IN TANDEM WITH THESE STEPS

TOGETHER

* CANNOT MOVE FORWARD WITHOUT BRIDGING

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Configuration Name: ESTABLISH FLOW WAY AND REMOVE THE PLUGS (CLOG) Page # 2

Author: DREW MARTIN, ROSA DURANDO, JON VILLMAN

Components

List the components in your proposed order here. Number them in order.

(13) CONSTRUCT -8.5 MILE LEVEE IN WCA 3B
(14) CONSTRUCT SOUTHERN L-67 A GATED STRUCTURE
(15) CONSTRUCT CENTRAL L-67 A GATED STRUCTURE

Reasoning

Explain your logic for the order of components here.

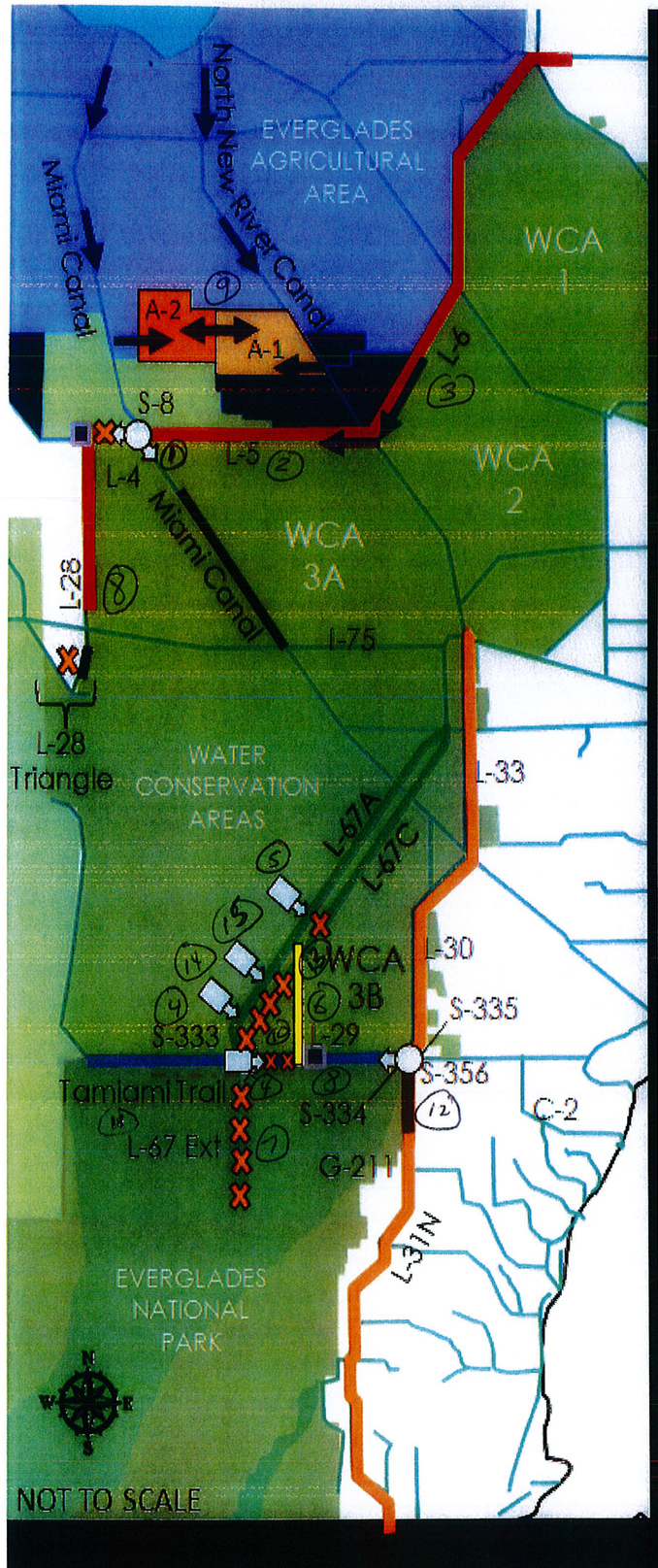
WE NEED LEVEE TO START TRAINING WATER
FLOW WATER UNDER BRIDGE
FLOW WATER UNDER BRIDGE

Adaptive Management

Describe how and where adaptive management could inform the *implementation* of CEPP.

DETERMINE IF WATER ~~CAN~~ FLOWS CAN BE PROPERLY TRAINED
FLOW WATER SOUTH TO FLORIDA BAY

Even though we are being asked to order the project components sequentially, the truth is that because of the latest sea level rise projections, we need to carry out these activities concurrently. We cannot afford to delay decompartmentilization activities in one part of the Central Everglades as we work in another part. Physics dictates that we move more expeditiously.



TENTATIVELY SELECTED PLAN

STORAGE AND TREATMENT

- Construct A-2 FEB and integrate with A-1 FEB operations
- Lake Okeechobee operation refinements within LORS

DISTRIBUTION/CONVEYANCE

- Diversion of L-6 flows, Infrastructure and L-5 canal improvements
- Remove western ~2.9 miles of L-4 levee (west of S-8 3,000 cfs capacity)
- Divide structure at western terminus of L-4 levee removal
- Backfill Miami Canal and Spoil Mound Removal ~1.5 miles south of S-8 to I-75
- L-28 Triangle – levee gap and canal backfill (~ 9,000 LF)

DISTRIBUTION/CONVEYANCE

- Increase S-333 capacity to 2,500 cfs
- Two 500 cfs gated structures in L-67A, 0.5 mile spoil removal west of L-67A canal north and south of structures
- Construct ~8.5 mile levee in WCA 3B, connecting L-67A to L-29
- Remove ~8 miles of L-67C levee in Blue Shanty flow way (no canal back fill)
- One 500 cfs gated structure north of Blue Shanty levee and 6,000-ft gap in L-67C levee
- Remove ~4.3 miles of L-29 levee in Blue Shanty flow way, divide structure east of Blue Shanty levee at terminus of western bridge
- Tamiami Trail western 2.6 mile bridge and L-29 canal max stage at 9.7 ft (FUTURE WORK BY OTHERS)
- Remove entire 5.5 miles L-67 Extension levee, backfill L-67 Extension canal
- Remove ~6 mile Old Tamiami Trail road (from L-67 Ext to Tram Rd)

SEEPAGE MANAGEMENT

- Increase S-356 pump station to ~1,000 cfs
- Partial depth seepage barrier south of Tamiami Trail (along L-31N)
- G-211 operational refinements; use coastal canals to convey seepage

Note: System wide operational changes and adaptive management considerations will be include in project

FEB | STA | Pump | Old Tamiami Trail Removal
Backfill | Levee Removal | Gated Structure
Seepage Barrier | Divide | Levee

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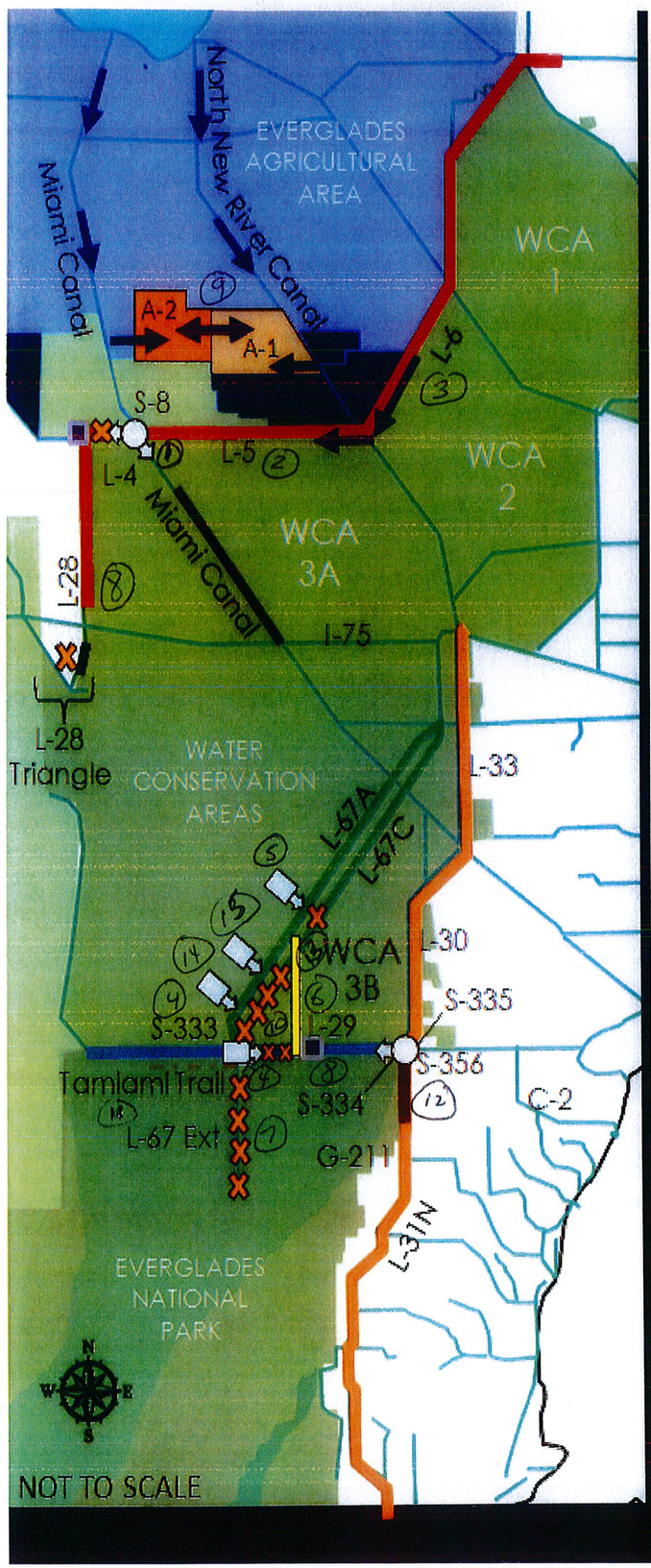

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- Remove ~8 miles of L-67C levee in Blue Shanty flow way (no canal back fill)
- One 500 cfs gated structure north of Blue Shanty levee and 6,000-ft gap in L-67C levee
- Remove ~4.3 miles of L-29 levee in Blue Shanty flow way, divide structure east of Blue Shanty levee at terminus of western bridge
- Tamiami Trail western 2.6 mile bridge and L-29 canal max stage at 9.7 ft (FUTURE WORK BY OTHERS)
- Remove entire 5.5 miles L-67 Extension levee, backfill L-67 Extension canal
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Backfill | Levee Removal | Gated Structure
Seepage Barrier | Divide | Levee

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Components for Sequencing

(9) Construct A-2 FEB and integrate with A-1 FEB operations

(3) Diversion of L-6 flows and infrastructure

(2) L-5 canal improvements and S-8 modifications

Remove western ~2.9 miles of L-4 levee (west of S-8 3,000 cfs capacity) and construct divide structure at western terminus of L-4 levee removal

(10) Backfill Miami Canal and Spoil Mound Removal ~1.5 miles south of S-8 to I-75

(8) L-28 Triangle – levee gap and canal backfill (~ 9,000 LF)

(4) Increase S-333 capacity to 2,500 cfs

(5) Construct northern L-67A gated structure (500 cfs) and gap L-67C Levee (6,000 LF)

(15) Construct central L-67A gated structure (500 cfs) and gap L-67C Levee (6,000 LF)

(14) Construct southern L-67A gated structure (500 cfs) and gap L-67C Levee (6,000 LF)

(13) Construct ~8.5 mile levee in WCA 3B, connecting L-67A to L-29, complete removal of L-67C levee in Blue Shanty flowway and remove ~4.3 miles of L-29 levee in Blue Shanty flowway

(6) Construct divide structure east of Blue Shanty levee

Tamiami Trail western 2.6 mile bridge and L-29 canal max stage at 9.7 ft

(7) Remove entire 5.5 miles L-67 Extension levee, backfill L-67 Extension canal

(11) Remove ~6 mile Old Tamiami Trail road (from L-67 Ext to Tram Rd)

(12) Increase S-356 pump station to ~1,000 cfs

(12) Partial depth seepage barrier south of Tamiami Trail (along L-31N)