COMPREHENSIVE EVERGLADES RESTORATION PLAN

LOXAHATCHEE RIVER WATERSHED RESTORATION PROJECT (LRWRP)

Preview of Evaluation of Alternative Plans Project Delivery Team Meeting #12









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MAJOR FEATURES OF THE ALTERNATIVES

Alternative	Deep Storage in L-8 Basin	Shallow Storage in L-8 Basin	C-18W Basin Storage	Aquifer Storage and Recovery (ASR)	Primary Delivery Route	Secondar y Delivery Route	FW 3 Features
2	None	4,300 ac-ft	7,200 ac-ft reservoir	2 wells at C-18W storage	FW2	FW1	Full range
5	None	None	9,500 ac-ft reservoir	4 wells at C-18W storage	FW2	FW1	Full range
10	44,000 ac-ft	None	7,200 ac-ft reservoir	None	FW1/FW2		Limited
13	None	6,500 ac-ft	Increased wetland elevations to support natural storage	4 wells at L-8 storage	FW2	FW1	Full range



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TODAY WE WILL ADDRESS

 Quantification was done by the subteams

Andy & Patti

Scott

Rafael & Scott

Courtney & Brad

Topics for LRWRP TSP	Plan Formulat ion	Ecologica I	Modelin g	Engineeri ng	Real Estate
H&H modeling of baselines and alts			р		
Estimate performance measure values of alts		р	x		
Calculate habitat units watershed, flood plain, river, estuary		р			
Water quality evaluation		р	х	Х	
Savings clause evaluation			Х	р	
Cost estimates for construction				Р	
Cost estimates for OMRR&R				Р	
Cost estimates for real estate				Х	р
Cost effectiveness and incremental cost analysis	р				
4 P&G criteria (effective, efficient, complete, acceptable)	р	х		X	





USACE POLICIES

- Recommend the plan that reasonably maximizes ecosystem benefits relative to cost – the National Ecosystem Restoration (NER) plan
 - This might not be the plan with the greatest benefits or the lowest cost
- Consider cost effectiveness and incremental cost analysis to help identify the recommended plan
 - Cannot use benefit/cost ratio since the benefits are not in dollars
- Use the four criteria from the Economic and Environmental Principles for Water and Related Land Resources Implementation Studies (P&G)
 - Completeness, effectiveness, efficiency, and acceptability
- Be SMART: obtain sufficient information to make the next decision; do not spend more time and money than necessary; accept tolerable risks





PRINCIPLES AND GUIDELINES CRITERIA

- **Effectiveness:** Extent to which an alternative plan alleviates the specified problems and achieves the specified opportunities
- Efficiency: Extent to which an alternative plan is the most costeffective means of alleviating problems and realizing opportunities. CE/ICA is one method to identify plans that maximize environmental benefits compared to costs
- **Completeness:** Extent to which a given alternative plan provides and accounts for all necessary investments or other actions to ensure the realization of the planned effects
- Acceptability: Workability and viability of the alternative plan with respect to acceptance by State and local entities and the public and compatibility with existing laws, regulations, and public policies



