

Site 1 Impoundment PIR JUNE COPY

Designed By: Jacksonville District  
Estimated By: Kirby Ray Clifton

Prepared By: Kirby Ray Clifton

Preparation Date: 06/26/06  
Effective Date of Pricing: 10/02/05

Sales Tax: 7.00%

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Currency in DOLLARS

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Modification for PIR Estimate:

Reduce Pump plant from 1350 to 650 CFS  
No internal levee nor associated control structure.  
No Hillsboro Canal Improvements  
Add Soil Cement Revetment to all levees' interior face.  
Add additional 1 foot height requirement to impoundment levee (levee construction and levee fill material requirements.)  
Levee fill material from internal borrow canal  
S&A 7.6 % of contract cost as estimated by CO  
Cofferdam and trimmie seal added to S527B construction cost  
Heavy clearing and burning added for 440 acres

The majority of required fill for the levee construction will be obtained from an internal borrow canal. The muck overburden will be removed from all construction footprints. Heavy clearing and grubbing will be required for approximately 440 acres. Plate soil cement revetment will be added to L40. Plate and step soil cement revetment will be constructed with the East and South levees.

The costs estimated are the cost as of 2 October 2005 (1st Qtr. FY 06)

The equipment cost come from an updated region 3 Equipment EP 1110-1-8 database. The update included the all appendix B factors with a fuel cost override.

The labor cost come from MCACES national labor rates data base updated by General Decision Nr. FL20030017 -02/03/2006. Where ever the decision provides data for a specific craft that data is utilized with a 5% addition. For the crafts not specifically covered in the decision, the estimator has employed his professional judgment as to the comparative ranking (rate wise)of that craft.

The contractor costs include field overhead, home office overhead, profit, and bond costs.

Mobilization and demobilization costs are calculated as 5% of the construction costs.

PED cost Estimated by EN branch

OLD NOTE

This cost estimate is for the Site 1 Impoundment feature of the Water Preserve Area Project. This is component "M" of CERP.

1660 acre -8' above ground storage = 13280 Acre feet  
1350 CFS Pump Plant  
150 CFS Seepage Pump

The cost estimate relies on design information provided by other engineering division branches.

Contractor cost is included in the cost estimate as 26.6 % of construction cost.

THIS ESTIMATE INCORPORATES THE SAME PED COST AS THE ESTIMATE FOR THE HILLSBORO IMPOUNDMENT FEASIBILITY ESTIMATE

No specific cost risk analysis has been performed. A contingency of 20% of contract cost has been used because of the level of design and the level of site investigations. 15% contingency is applied to Pump Plant cost. Five percent contingency is used on instrumentation and monitoring systems. Lands and Damages feature code incorporates contingency amounts provided by the Real Estate Division. Separable line item PED cost have no contingency cost.

Planning, Engineering and Design cost estimates were provided by Engineering Division Branches.

Construction Management cost is 7% of contract cost as directed by the project manager.

The construction cost is based on cost models, developed cost, MCACES unit cost book, Means cost books, and historical data.

\*\* PROJECT OWNER SUMMARY - Con/Non (Rounded to 1000's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A Site 1 Impoundment					
3A/01 Construction Cost			53,506,000	8,272,000	61,777,000
3A/02 Non Construction Cost			15,515,000	1,438,000	16,953,000
TOTAL Site 1 Impoundment			69,021,000	9,710,000	78,730,000
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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A Site 1 Impoundment					
3A/01 Construction Cost					
3A/01/02		Relocations	37,000	7,000	45,000
3A/01/03		Reservoirs	1,025,000	151,000	1,175,000
3A/01/09		Channels and Canals	12,413,000	1,725,000	14,139,000
3A/01/11		Levees and Floodwalls	20,911,000	3,389,000	24,299,000
3A/01/13		Pumping Plant	14,934,000	2,233,000	17,167,000
3A/01/15		Floodway Control & Divert. Strut	4,185,000	767,000	4,952,000
TOTAL Construction Cost					
			53,506,000	8,272,000	61,777,000
3A/02 Non Construction Cost					
3A/02/01		Lands and Damages	8,395,000	9,000	8,404,000
3A/02/30		Planning, Engineering and Design	3,150,000	633,000	3,783,000
3A/02/31		Construction Management	3,970,000	796,000	4,766,000
TOTAL Non Construction Cost					
			15,515,000	1,438,000	16,953,000
TOTAL Site 1 Impoundment					
			69,021,000	9,710,000	78,730,000
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			69,021,000	9,710,000	78,730,000

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