

**APPENDIX B**  
**COST ESTIMATES**

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Wed 15 Mar 2006  
Eff. Date 10/02/05

U.S. Army Corps of Engineers  
PROJECT: Site 1 Impoundment 06  
Site 1 Impoundment

TIME 10:35:42  
TITLE PAGE 1

-----  
Site 1 Impoundment 06

Designed By: Jacksonville District  
Estimated By: Kirby Ray Clifton, C.C.C.

Prepared By: Kirby Ray Clifton, C.C.C. and  
Scott Burch, P.E.

Preparation Date: 03/14/06  
Effective Date of Pricing: 10/02/05

Sales Tax: 7.00%

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Currency in DOLLARS

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

1660 acre w/ 8 foot above-ground storage = 13280 Acre-Feet Reservoir  
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 for this project. Contingencies range between 15% and 20% based on the level of design and confidence in pricing data in accordance with ER 1110-2-1302. A contingency of 15% is applied to the Pump Plants and Diversion Structures based on recent analyses of historic data. Lands and Damages incorporate contingency amounts provided by Real Estate Division. PED costs have no contingency. <Contingency evaluation performed by SBB based on recommendations provided by KRC>

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

Construction Management cost is estimated as 7.6% of contract cost based on recent guidance from Construction-Operations Division.

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

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Eff. Date 10/02/05

U.S. Army Corps of Engineers  
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SUMMARY PAGE 1

\*\* PROJECT OWNER SUMMARY - Contract (Rounded to 1000's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A Site 1 Impoundment			50,246,000	6,118,000	56,364,000
TOTAL Site 1 Impoundment	06		50,246,000	6,118,000	56,364,000

Currency in DOLLARS

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SUMMARY PAGE 2

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

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A Site 1 Impoundment					
3A/01 Construction Cost			35,764,000	5,686,000	41,450,000
3A/02 Non Construction Cost			14,482,000	432,000	14,914,000
TOTAL Site 1 Impoundment			50,246,000	6,118,000	56,364,000
TOTAL Site 1 Impoundment		06	50,246,000	6,118,000	56,364,000

Currency in DOLLARS

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 Eff. Date 10/02/05

U.S. Army Corps of Engineers  
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 Site 1 Impoundment

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 SUMMARY PAGE 3

\*\* PROJECT OWNER SUMMARY - Feature (Rounded to 1000's) \*\*

	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/01/09 Channels and Canals			6,885,000	1,239,000	8,125,000
3A/01/11 Levees and Floodwalls			5,878,000	1,021,000	6,899,000
3A/01/13 Pumping Plant			18,878,000	2,824,000	21,703,000
3A/01/15 Floodway Control & Divert. Strut			4,085,000	594,000	4,679,000
TOTAL Construction Cost			35,764,000	5,686,000	41,450,000
3A/02 Non Construction Cost					
3A/02/01 Lands and Damages			8,362,000	2,000	8,364,000
3A/02/30 Planning, Engineering and Design			3,400,000	0	3,400,000
3A/02/31 Construction Management			2,720,000	430,000	3,150,000
TOTAL Non Construction Cost			14,482,000	432,000	14,914,000
TOTAL Site 1 Impoundment			50,246,000	6,118,000	56,364,000
TOTAL Site 1 Impoundment		06	50,246,000	6,118,000	56,364,000

Currency in DOLLARS

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 Eff. Date 10/02/05

U.S. Army Corps of Engineers  
 PROJECT: Site 1 Impoundment 06  
 Site 1 Impoundment

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 SUMMARY PAGE 4

\*\* PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 1000's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A Site 1 Impoundment					
3A/01 Construction Cost					
3A/01/02 Relocations					
3A/01/02/ 03 Utilities			37,000	7,000	45,000
TOTAL Relocations			37,000	7,000	45,000
3A/01/09 Channels and Canals					
3A/01/09/001 C-508N Northern Impoundment			3,304,000	595,000	3,899,000
3A/01/09/003 Hillsboro Canal Improvement			2,209,000	398,000	2,606,000
3A/01/09/004 C-508N Littoral Shelves			254,000	46,000	300,000
3A/01/09/005 Intake/Discharge Basins			1,119,000	201,000	1,320,000
TOTAL Channels and Canals			6,885,000	1,239,000	8,125,000
3A/01/11 Levees and Floodwalls					
3A/01/11/001 L-508N Northern Impound&Internal			5,815,000	1,018,000	6,832,000
3A/01/11/004 Geotechnical Instrumentation			63,000	3,000	66,000
TOTAL Levees and Floodwalls			5,878,000	1,021,000	6,899,000

Currency in DOLLARS

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 SUMMARY PAGE 5

\*\* PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 1000's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
-----					
3A/01/13		Pumping Plant			
3A/01/13/008		Instrumentation	73,000	4,000	77,000
3A/01/13/010		S-525A 1350 CFS Pump Plant	14,602,000	2,190,000	16,793,000
3A/01/13/020		S-525B 150CF Pump Plant Seepage	4,203,000	630,000	4,833,000
		TOTAL Pumping Plant	18,878,000	2,824,000	21,703,000
-----					
3A/01/15		Floodway Control & Divert. Strut			
3A/01/15/003		S-526A 3 Barrel Gated Culvert	1,263,000	189,000	1,452,000
3A/01/15/004		S-527A CIT Weir	219,000	33,000	252,000
3A/01/15/026		S-527B 2 Barrel Gated Bx Culvert	1,154,000	173,000	1,327,000
3A/01/15/027		S-528A 2 Barrel Gated Culvert	1,005,000	151,000	1,156,000
3A/01/15/030		Instrumentation	59,000	3,000	62,000
3A/01/15/031		Northern Emergency Spillway	256,000	38,000	294,000
3A/01/15/033		Groundwater Monitoring	80,000	4,000	84,000
3A/01/15/034		Water Quality Monitoring	50,000	3,000	53,000
		TOTAL Floodway Control & Divert. Strut	4,085,000	594,000	4,679,000
		TOTAL Construction Cost	35,764,000	5,686,000	41,450,000
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Currency in DOLLARS

\*\* PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 1000's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A/02 Non Construction Cost					
3A/02/01 Lands and Damages					
3A/02/01/001 Real Estate			8,362,000	2,000	8,364,000
TOTAL Lands and Damages			8,362,000	2,000	8,364,000
3A/02/30 Planning, Engineering and Design					
3A/02/30/ 2 Planning, Engineering and Design			3,400,000	0	3,400,000
TOTAL Planning, Engineering and Design			3,400,000	0	3,400,000
3A/02/31 Construction Management					
3A/02/31/ 1 Construction Management			2,720,000	430,000	3,150,000
TOTAL Construction Management			2,720,000	430,000	3,150,000
TOTAL Non Construction Cost			14,482,000	432,000	14,914,000
TOTAL Site 1 Impoundment			50,246,000	6,118,000	56,364,000
TOTAL Site 1 Impoundment	06		50,246,000	6,118,000	56,364,000

Thu 16 Feb 2006  
Eff. Date 10/02/05

U.S. Army Corps of Engineers  
PROJECT S1REC3: Site 1 Recreation Area FY '06  
Site 1 Impoundment Recreation

TIME 14:27:27  
TITLE PAGE 1

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Site 1 Recreation Area FY '06

Designed By: Jacksonville District  
Estimated By: Kirby Ray Clifton

Prepared By: Kirby Ray Clifton

Preparation Date: 02/16/06  
Effective Date of Pricing: 10/02/05

Sales Tax: 7.00%

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This concept level cost estimate is for recreation facilities associated with the Site 1 impoundment project.

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

PED and S&A cost each are 10 % of contract cost as directed.

No specific cost risk analysis has been performed. A contingency of 25% of contract cost has been used because of the level of design and the level of site investigations.

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

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No Detailed Estimate...

No Backup Reports...

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\*\* PROJECT OWNER SUMMARY - Con/Non (Rounded to 10's) \*\*

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	QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST
3A South Central Site				
3A/01 Construction Cost		239,870	59,970	299,840
3A/02 Non Construction Cost		49,410	12,350	61,770
TOTAL South Central Site		289,290	72,320	361,610
4A West End Site				
4A/01 Construction Cost		4,380	1,090	5,470
4A/02 Non Construction Cost		900	230	1,130
TOTAL West End Site		5,280	1,320	6,600
TOTAL Site 1 Recreation Area FY '06		294,560	73,640	368,210

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\*\* PROJECT OWNER SUMMARY - Feature (Rounded to 10's) \*\*

	QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST
3A South Central Site				
3A/01 Construction Cost				
3A/01/14 Recreation Facilities		239,870	59,970	299,840
TOTAL Construction Cost		239,870	59,970	299,840
3A/02 Non Construction Cost				
3A/02/30 Planning, Engineering and Design		24,710	6,180	30,880
3A/02/31 Construction Management		24,710	6,180	30,880
TOTAL Non Construction Cost		49,410	12,350	61,770
TOTAL South Central Site		289,290	72,320	361,610
4A West End Site				
4A/01 Construction Cost				
4A/01/04 Recreation		4,380	1,090	5,470
TOTAL Construction Cost		4,380	1,090	5,470
4A/02 Non Construction Cost				
4A/02/30 PED		450	110	560
4A/02/31 S&A		450	110	560
TOTAL Non Construction Cost		900	230	1,130
TOTAL West End Site		5,280	1,320	6,600
TOTAL Site 1 Recreation Area FY '06		294,560	73,640	368,210

\*\* PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 10's) \*\*

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST
3A South Central Site					
3A/01 Construction Cost					
3A/01/14 Recreation Facilities					
3A/01/14/ 01			19,560	4,890	24,450
3A/01/14/ 18			13,680	3,420	17,100
3A/01/14/ 22			33,230	8,310	41,540
3A/01/14/ 23			690	170	860
3A/01/14/ 72			171,030	42,760	213,790
3A/01/14/ 99			1,680	420	2,100
TOTAL Recreation Facilities			239,870	59,970	299,840
TOTAL Construction Cost			239,870	59,970	299,840
3A/02 Non Construction Cost					
3A/02/30 Planning, Engineering and Design					
3A/02/30/030			24,710	6,180	30,880
TOTAL Planning, Engineering and Design			24,710	6,180	30,880
3A/02/31 Construction Management					
3A/02/31/ 1			24,710	6,180	30,880
TOTAL Construction Management			24,710	6,180	30,880
TOTAL Non Construction Cost			49,410	12,350	61,770
TOTAL South Central Site			289,290	72,320	361,610
4A West End Site					
4A/01 Construction Cost					
4A/01/04 Recreation					
4A/01/04/04_			4,380	1,090	5,470
TOTAL Recreation			4,380	1,090	5,470
TOTAL Construction Cost			4,380	1,090	5,470

\*\* PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 10's) \*\*

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 QUANTITY UOM CONTRACT CONTINGN TOTAL COST  
 -----

4A/02 Non Construction Cost

4A/02/30 PED

4A/02/30/030 PED 450 110 560

TOTAL PED 450 110 560

4A/02/31 S&A

4A/02/31/031 S&A 450 110 560

TOTAL S&A 450 110 560

TOTAL Non Construction Cost 900 230 1,130

TOTAL West End Site 5,280 1,320 6,600

TOTAL Site 1 Recreation Area FY '06 294,560 73,640 368,210

Thu 16 Feb 2006  
Eff. Date 10/02/05  
ERROR REPORT

U.S. Army Corps of Engineers  
PROJECT S1REC3: Site 1 Recreation Area FY '06  
Site 1 Impoundment Recreation

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No errors detected...

\* \* \* END OF ERROR REPORT \* \* \*