

Appendix D

COST ESTIMATION

ALTERNATIVE COST ESTIMATES FOR COMPARISON
2008 DOLLARS

CALCASIEU RIVER AND PASS, LOUISIANA
DREDGED MATERIAL MANAGEMENT PLAN

Contract No. DACW27-03-D-0005
Delivery Order No. CZ03
GEC Project No. 27321CZ03

Prepared for:



U.S. Army Corps of Engineers
New Orleans District
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1 INTRODUCTION

The following cost estimates are considered planning level estimates used for determining the cost of various alternatives. The estimates demonstrate the relative cost to one another. The estimates are not intended to identify final projected cost of the project. A further defined cost estimate based on the selected alternative will be developed in the future.

Cost estimates were developed for Options B, C and D that considered dredging, placement area construction, shore protection, site management, lands easements rights of ways and relocations (LERRs) engineering and design, and supervision and administration. Each option divided the channel from river mile 5 to mile 36 into 10 segments in addition to the Bar Channels for which the costs were estimated. The costs for each cycle over the 20 year term of the DMMP were adjusted for escalation per 1110-2-1304 Civil Works Construction Cost Index System. While these planning level estimates were made to primarily provide an order of magnitude cost of an option and an annual estimated funding requirement, they also provide a basis for comparison of the options. An overall 15% contingency was applied to all estimates for the first 5 years and 20% for the remaining years due to the breadth of uncertainties surrounding the options and the advice of the ITR process. Fuel costs were estimated at \$3.76 per gallon for off-road diesel as of May 2009. South East Labor and Benefit rates for the Local 25 southern dredging union were used to establish unit costs, production, and rates. Alternative B, the Recommended Plan, is estimated at a total of \$788 million. Approximately \$628 million is estimated for Mile 5 to 36 and \$160 million for the Bar Channel Sections. Alternative C is estimated at \$800 million. Approximately \$640 million is estimated for Mile 5 to 36 and \$160 million for the Bar Channel Sections. Alternative D is estimated at over \$1 Billion over the life of the DMMP and has been eliminated from further consideration as a viable plan.

The cost estimates and assumptions listed in this Appendix have been used to evaluate and compare the costs for each alternative.

The estimates prepared under this appendix have been used in the DMMP for the cost estimate as the separable items relating to cost sharing, and operation and maintenance are more easily separated.

Tables D-1 to D-3 provides a summary of the costs for all three options by year, river reach and site. The amounts in the tables also indicate the cost sharing values for elements per law and policy at the time the estimate was made.

Table D-1. Alternative B Cost Estimate

Section	Placement Sites	Type	Cost Share	Year																			Total			
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19		
34 to 36	1	Local Federal O&M Total	25% 75%	181 543 724		31 31	32 32		471 471	35 35				54 163 217		1,731 1,731	38 38								4,695	
	2	Local Federal O&M Total	25% 75%	131 392 523		27 27	28 28							47 140 187		1,731 1,731	34 34						562 37 562	37 37		4,545
30 to 34	3	Local Federal O&M Total	25% 75%	233 698 931		70 70	71 71		461 461	115 345	1,515 1,515	80 80				3,180 3,180	87 87								11,506	
	7	Local Federal O&M Total	25% 75%	77 77		78 78		192 575 767									3,180 3,180	98 98						48 144 192	1,917 108 1,917	108 108
26 to 30	7	Local Federal O&M Total	25% 75%	77 77		78 78		192 575 767		3,659 3,659	87 87	88 88					98 98						48 144 192	4,645 106 4,645	106 106	9,798
	8	Local Federal O&M Total	25% 75%	0 0		0 0		396 1,187 1,583		3,659 3,659	131 131	133 133														10,219
	9	Local Federal O&M Total	25% 75%	0 0		0 0								398 1,194 1,592		4,174 4,174	125 127	127 127						96 288 385	4,645 139 4,645	139 139
22 to 26	10	Local Federal O&M Total	25% 75%	0 0		342 1,026 1,368																			8,176	
	11	Local Federal O&M Total	25% 75%	320 960 1,280		84 84	86 86																			9,958
	12A	Local Federal O&M Total	25% 75%	0 0		407 1,220 1,627																			11,276	
	12B	Local Federal O&M Total	25% 75%	0 0		267 267	272 272							951 2,853 3,804		5,414 5,414	322 322							132 396 528	6,242 371 6,242	371 371

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Table D-1. Alternative B Cost Estimate Continued

21 to 22	15	Local Federal O&M Total	25% 75%	1,571 110 112 1,571	110 110 112 110	1,783 5,350 7,134	1,665 123 1,665	123 0 123	0 0 0	1,866 132 1,866	132 0 132	0 0 0	2,004 142 2,004	142 0 142	0 0 0	140 421 561	2,152 152 2,152	152 0 152	0 0 0	0 0 0	17,725	
	16N	Local Federal O&M Total	25% 75%	1,329 3,988 0 5,317	1,607 1,607 1,607	105 105 105	107 107 107	0 1,801 1,801	117 117 117	0 0 0	438 438 438	110 329 1,934 126 1,934 126	0 0 0 0	2,077 135 2,077 135	0 0 2,077 135	0 0 2,077 135	0 0 2,228 145 2,228 145	0 0 2,228 145	0 0 2,228 145	0 0 2,228 145	16,138	
Devil's Elbow	13A	Local Federal O&M Total	25% 75%	492 1,477 3,631 5,601	0 219 219	223 223 223	3,850 242 3,850	242 0 242	0 480 480	120 360 4,314 260 4,314 260	0 0 0 0	0 0 4,634 279 4,634 279	0 0 0 0	0 0 4,976 299 4,976 299	0 0 4,976 299	0 0 4,976 299	0 0 4,976 299	0 0 4,976 299	0 0 4,976 299	0 0 4,976 299	25,377	
	13B	Local Federal O&M Total	25% 75%	492 1,477 1,970	0 3,716 3,716	223 223 223	227 4,163 4,163	0 251 251	0 4,163 4,163	0 251 251	0 497 497	124 373 4,471 269 4,471 269	0 0 0 0	4,802 289 4,802 289	0 0 4,802 289	0 0 4,802 289	0 0 5,152 310 5,152 310	0 0 5,152 310	0 0 5,152 310	0 0 5,152 310	26,339	
16 to 21	17	Local Federal O&M Total	25% 75%	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 6,236 3,592 6,236 3,592	0 0 261 261	0 0 0 0	0 0 993 4,215 993 4,215	0 0 993 4,215	0 0 993 4,215	0 0 993 4,215	0 0 993 4,215	15,582	
	19	Local Federal O&M Total	25% 75%	0 0 0 0	0 0 0 0	1,567 4,700 2,208 8,475	0 4,929 4,929	184 184 184	0 0 0	0 1,247 1,247	0 0 0	312 935 3,556 1,072 3,556 1,072	0 0 0 0	1,994 208 1,994 208	0 0 1,994 208	0 0 1,994 208	0 0 1,994 208	0 0 1,994 208	0 0 1,994 208	0 0 1,994 208	21,665	
	22	Local Federal O&M Total	25% 75%	0 0 0 0	0 0 0 0	1,778 5,334 217 7,330	0 4,929 4,929	239 239 239	0 0 0	0 2,317 2,317	0 0 0	579 1,738 3,665 1,373 3,665 1,373	0 0 0 0	5,585 271 5,585 271	0 0 5,585 271	0 0 5,585 271	0 0 5,899 286 5,899 286	0 0 5,899 286	0 0 5,899 286	0 0 5,899 286	31,895	
	Meracantel (BU50)	Local Federal O&M Total	25% 75%	114 341 7,553 8,008	0 0 0 0	116 349 7,729 8,195	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	133 399 8,816 9,348	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	153 460 10,160 10,773	0 0 13,452 14,088	0 0 13,452 14,088	0 0 13,452 14,088	0 0 13,452 14,088	50,413
	Foreshore Dike (FSD)	Local Federal O&M Total	25% 75%	1,819 5,457 4,378 11,654	181 181 181	4,480 4,480 4,480	187 187 187	0 0 0	0 0 0	0 0 0	5,109 5,109 5,109	213 213 213	0 0 0	3,556 3,556 3,556	225 225 225	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	25,605

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Table D-1. Alternative B Cost Estimate (Continued)

12 to 16	D,E Expanded (DEX)	Local Federal O&M Total	25% 75%	0	0	0	2,887 8,662 377 11,927	0	4,828	415	10,006	430	1,027 3,081 4,108	10,556	454	3,587	470	0	0	0	0	0	0	46,782				
	Foreshore Dike (FSD)	Local Federal O&M Total	25% 75%	0	0	0	0	0	4,828	206	0	0	1,151 3,452 4,602	0	0	1,883	233	0	5,771	246	4,247	255	0	22,272				
	Sabine (BU5)	Local Federal O&M Total	25% 75%	73	218	13,411	73 218 13,724 14,015	0	0	0	0	0	0	0	0	93	278	8,671	9,042	0	0	98	294	9,147	12,156	12,562	0	0
9.5 to 12	Cameron SB (BU49)	Local Federal O&M Total	25% 75%	0	0	0	119 356 474	8,260	0	131 392 523	2,796	0	138 414 551	5,163	0	0	0	0	0	0	0	0	0	0	0	17,768		
	Sabine (BU18)	Local Federal O&M Total	25% 75%	114	341	7,695	114 341 7,695	0	0	131 392 523	6,816	0	138 414 551	4,976	0	145	436	9,922	9,922	0	614	153	460	10,468	11,022	11,022	54,271	
5 to 9.5	H	Local Federal O&M Total	25% 75%	249	746	2,751	249 746 2,751	88	89	0	0	0	0	0	0	0	2,129	114	2,129	114	0	0	0	0	0	6,165		
	M	Local Federal O&M Total	25% 75%	0	0	0	710 2,129 2,839	2,895	266	271	0	0	0	3,362	296	0	4,965	312	4,965	312	653	7,483	329	0	3,940	27,612		
	N	Local Federal O&M Total	25% 75%	500	1,500	2,751	500 1,500 2,000	137	139	0	0	0	0	3,362	168	0	0	0	0	0	0	0	152	456	3,940	13,103		
	Cameron WR (BU19)	Local Federal O&M Total	25% 75%	0	0	0	0	0	0	91	273	6,780	0	0	0	0	0	0	0	0	0	0	0	0	0	7,144		
	Cameron WR (BU20)	Local Federal O&M Total	25% 75%	0	0	0	83 248 331	5,134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,465		
Total Project Mile 5-36 Option B		Local Federal O&M LER's Total	25% 75%	4,717	14,151	30,699	1,329 3,988 26,096 35,043	938 2,813 8,918 1,859 37,901	9,706 29,118 8,918 1,203 48,945	0 0 29,645 0 29,645	115 345 26,076 0 26,537	352 1,057 9,350 151 10,910	253 759 45,996 25 47,033	2,339 7,018 7,038 293 16,688	2,788 8,364 14,153 0 25,305	161 483 48,653 2 49,300	1,597 4,791 15,998 360 22,746	238 715 32,569 0 33,522	0 0 24,696 0 24,696	192 577 7,651 0 8,420	708 2,125 47,276 0 50,109	380 1,141 28,169 0 29,690	260 781 41,201 0 42,243	314 941 8,291 0 9,546	0 0 25,815 0 25,815	26,389 79,166 510,583 12,249 628,387		

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Table D-1. Alternative B Cost Estimate (Continued)

Section	Placement Sites	Type	Cost Share	Year																			Total	
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
Bar Channel	ODMDS/Agitation	Local	25%																					
		Federal	75%	6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453
		O&M																						
		LER's																						
		Total		6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453
Total Project Mile 5-36 and Bar Channel Option B	Local	25%	4,717	1,329	938	9,706	0	115	352	253	2,339	2,788	161	1,597	238	0	192	708	380	260	314	0	26,389	
	Federal	75%	14,151	3,988	2,813	29,118	0	345	1,057	759	7,018	8,364	483	4,791	715	0	577	2,125	1,141	781	941	0	79,166	
	O&M		37,072	32,596	38,922	15,681	36,844	33,419	16,840	53,636	14,831	22,101	56,760	24,268	41,004	33,300	16,427	56,227	37,299	50,513	17,790	35,504	671,036	
	LER's		4,726	3,630	1,859	1,203	0	0	151	25	293	0	2	360	0	0	0	0	0	0	0	0	0	12,249
	Total		60,666	41,543	44,532	55,708	36,844	33,880	18,400	54,673	24,481	33,253	57,407	31,016	41,957	33,300	17,196	59,060	38,820	51,555	19,045	35,504	788,840	

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Table D-2. Alternative C Cost Estimate

Section	Placement Sites	Type	Cost Share	Year																			Total	
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
34 to 36	1	Local	25%	181									54											
		CG	75%	543									163											
		O&M			1,416	31	32		471	35					1,731	38								
		Total		724	1,416	31	32	0	471	35	0	0	217	1,731	38	0	0	0	0	0	0	0	0	4,695
	2	Local	25%	131									47											
		CG	75%	392									140											
		O&M			1,416	27	28								1,731	34			562	37				
		Total		523	1,416	27	28	0	0	0	0	0	187	1,731	34	0	0	0	562	37	0	0	0	4,545
30 to 34	3	Local	25%	233						115														
		CG	75%	698						345														
		O&M			5,112	70	71				1,515	80				3,180	87							
		Total		931	5,112	70	71	0	461	1,515	80	0	0	0	3,180	87	0	0	0	0	0	0	0	11,506
	7	Local	25%				192											48						
		CG	75%				575											144						
		O&M		77	78										3,180	98			1,917	108				
		Total		77	78	0	767	0	0	0	0	0	0	0	3,180	98	0	192	0	1,917	108	0	0	6,417
26 to 30	7	Local	25%				192											48						
		CG	75%				575											144						
		O&M		77	78			3,659	87	88						98			4,645	106				
		Total		77	78	0	767	3,659	87	88	0	0	0	0	0	98	0	192	4,645	106	0	0	0	9,798
	8	Local	25%				396						99											
		CG	75%				1,187						297											
		O&M						3,659	131	133				4,174	143									
		Total		0	0	0	1,583	3,659	131	133	0	397	4,174	143	0	0	0	0	0	0	0	0	0	10,219
	9	Local	25%									398						96						
		Federal	75%									1,194						288						
		O&M											4,174	125	127				4,645	139				
		Total		0	0	0	0	0	0	0	0	1,592	4,174	125	127	0	0	385	4,645	139	0	0	0	11,187

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Table D-2. Alternative C Cost Estimate (Continued)

21 to 22	15	Local	25% 75%				1,783											140						
		Federal						5,350											421					
		O&M			1,571	110	112			1,665	123			1,866	132			2,004	142			2,152	152	
	Total			1,571	110	112	7,134	1,665	123	0	0	1,866	132	0	0	2,004	142	0	561	2,152	152	0	0	17,725
16N	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	5,317	1,607	1,607	105	107	0	1,801	117	0	438	1,934	126	0	0	2,077	135	0	0	2,228	145	16,138
Devil's Elbow	13A	Local	25% 75%																					
		Federal																						
		O&M																						
	Total		0	1,985	3,716	219	223	0	0	0	4,314	260	0	497	4,551	279	0	0	4,976	299	0	0	21,320	
13B	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	1,985	0	0	3,782	242	238	0	0	0	4,471	264	0	534	4,802	289	0	0	5,152	310	22,068	
West of Black Lake(BU50)	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		6,856	0	0	0	0	0	0	0	7,861	0	0	0	0	0	0	0	0	0	0	0	14,717	
16 to 21	17	Local	25% 75%																					
		Federal																						
		O&M																						
	Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	865	2,594	8,546	125	12,130	
W. Palermo (BU48)	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	585	14,374	0	0	7,512	666	8,506	0	0	0	728	10,162	0	0	0	0	0	0	0	42,532	
West of Black Lake (BU50)	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		14,765	0	0	0	0	9,770	0	8,419	0	0	0	0	0	0	0	0	0	0	0	0	32,954	
E. Palermo (BU52)	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	0	0	0	0	0	0	0	0	551	4,269	0	0	0	0	0	0	0	0	0	4,821	
Palermo (BU4)	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	0	0	0	0	0	0	0	0	586	12,698	0	0	0	0	0	0	0	0	0	13,284	
BU24	Local	25% 75%																						
	Federal																							
	O&M																							
	Total		0	0	0	0	0	0	0	0	0	0	0	893	9,115	0	942	19,622	0	7,631	0	0	38,204	

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Table D-2. Alternative C Cost Estimate (Continued)

12 to 16	Foreshore Dike (FSD)	Local	25%	1,819														1,183							
		Federal	75%	5,457															3,550						
		O&M		8,574	156															11,541	214				
		Total		15,849	156	0	0	0	0	0	0	0	0	0	0	0	0	0	4,733	11,541	214	0	0	0	32,494
	Shore Protect D&E Lakeside	Local	25%																						
		Federal	75%																						
O&M											0														
	Total			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sabine (BU5)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total			0	297	13,724	0	0	15,159	0	15,992	0	0	8,395	0	0	0	0	0	0	0	0	0	0	53,567
Bell (BU6)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total			0	0	0	0	0	0	0	0	0	8,314	0	6,957	0	0	0	0	0	0	0	0	0	15,271
Bell (BU7)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total			0	0	0	0	0	0	0	0	0	0	0	11,752	0	0	0	0	0	19,400	0	0	31,152	
9.5 to 12	Sabine (BU18)	Local	25%	114						131			138						153				162		
		Federal	75%	341						391.965			414						436				485		
		O&M																							
		Total		455	7,695	0	0	0	0	523	6,816	0	551	4,976	0	582	9,922	0	614	10,468	0	647	11,022	54,271	
Cameron SB (BU49)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total			0	0	0	474	8,260	0	523	2,796	0	551	5,163	0	0	0	0	0	0	0	0	0	17,768	

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Table D-2. Alternative C Cost Estimate (Continued)

5 to 9.5	H	Local	25%	249																					
		Federal	75%	746																					
		O&M				2,751	88	89										2,129	114						
		Total		994		2,751	88	89	0	0	0	0	0	0	0	0	0	2,129	114	0	0	0	0	0	6,165
	M	Local	25%																						
		Federal	75%																						
O&M																									
Total			0	0	0	2,839	2,895	266	271	0	0	0	3,362	296	0	4,965	312	653	7,483	329	0	3,940	27,612		
N	Local	25%	500																						
	Federal	75%	1,500																						
	O&M				2,751	137	139																		
	Total		2,000		2,751	137	139	0	0	0	0	0	3,362	168	0	0	0	0	0	0	0	608	3,940	13,103	
Cameron WR (BU19)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total		0	0	0	0	0	0	0	364	6,780	0	0	0	0	0	0	0	0	0	0	0	0	7,144	
Cameron WR (BU20)	Local	25%																							
	Federal	75%																							
	O&M																								
	Total		0	0	0	331	5,134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,465	
Total Project Mile 5-36 Option C	Local	25%	3,773	2,542	749	3,474	0	485	649	218	1,448	770	249	530	585	133	1,611	457	997	175	314	0	19,160		
	Federal	75%	11,320	7,626	2,246	10,421	0	1,464	1,948	654	4,345	2,311	747	1,589	1,756	400	4,834	1,371	2,991	526	941	0	57,490		
	O&M		31,009	26,072	34,237	5,703	29,573	37,513	11,718	53,860	6,394	14,153	60,644	13,022	43,399	23,251	7,651	47,463	27,851	42,007	7,876	25,815	549,212		
	LER's		2,428	6,276	1,788	1,090	166	0	135	0	253	420	301	908	0	0	0	0	0	520	0	0	14,285		
	Total		48,531	42,516	39,019	20,688	29,739	39,463	14,451	54,732	12,440	17,655	61,941	16,048	45,741	23,785	14,096	49,291	31,839	43,228	9,131	25,815	640,147		

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Table D-2. Alternative C Cost Estimate (Continued)

Section	Placement Sites	Type	Cost Share	Year																			Total	
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
Bar Channel	ODMDS/Agitation	Local	25%																					
		Federal	75%																					
		O&M		6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453
		LER's																						
		Total		6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453

Total Project Mile 5-36 and Bar Channel Option C	Local	25%	3,773	2,542	749	3,474	0	485	649	218	1,448	770	249	530	585	133	1,611	457	997	175	314	0	19,160
	Federal	75%	11,320	7,626	2,246	10,421	0	1,464	1,948	654	4,345	2,311	747	1,589	1,756	400	4,834	1,371	2,991	526	941	0	57,490
	O&M		37,382	32,572	40,868	12,466	36,772	44,856	19,208	61,500	14,187	22,101	68,751	21,292	51,834	31,855	16,427	56,414	36,981	51,319	17,375	35,504	709,665
	LER's		2,428	6,276	1,788	1,090	166	0	135	0	253	420	301	908	0	0	0	0	0	520	0	0	14,285
	Total		54,904	49,016	45,650	27,451	36,938	46,806	21,941	62,372	20,233	25,603	70,048	24,318	54,176	32,389	22,872	58,242	40,969	52,540	18,630	35,504	800,600

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Table D-3. Option D Cost Estimate

Section	Placement Sites	Type	Cost Share	Year																			Total	
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
34 to 36	1	Local	25%	182																				
		CG	75%	547										57										
		O&M			1,444	32	33			485	36													
		Total		730	1,444	32	33	0	485	36	0	0	226	1,802	39	0	0	0	0	0	0	0	0	
	2	Local	25%	132																				
		CG	75%	395										49										
		O&M			1,444	28	28																	
		Total		527	1,444	28	28	0	0	0	0	0	194	1,802	36	0	0	0	591	39	0	0	0	
30 to 34	3	Local	25%	235																				
		CG	75%	704																				
		O&M			5,214	71	74																	
		Total		938	5,214	71	74	0	475	1,565	82	0	0	0	3,317	91	0	0	0	0	0	0	0	
	7	Local	25%																					
		CG	75%																					
		O&M																						
		Total		79	79	0	788	0	0	0	0	0	0	0	3,317	102	0	202	0	2,019	113	0	0	
26 to 30	7	Local	25%																					
		CG	75%																					
		O&M																						
		Total		78	79	0	788	2,822	89	91	0	0	0	0	0	102	0	202	3,662	111	0	0	0	
	8	Local	25%																					
		CG	75%																					
		O&M																						
		Total		0	0	0	1,625	2,822	135	138	0	412	3,252	149	0	0	0	0	0	0	0	0	0	
	9	Local	25%																					
		Federal	75%																					
		O&M																						
		Total		0	0	0	0	0	0	0	0	1,651	3,252	131	133	0	0	404	3,662	147	0	0	0	
22 to 26	10	Local	25%																					
		Federal	75%																					
		O&M																						
		Total		0	0	1,401	2,395	90	95	0	0	0	0	212	1,950	109	0	0	2,111	118	0	0	0	
	11	Local	25%	323																				
		Federal	75%	968																				
		O&M			2,301	86	88																	
		Total		1,291	2,301	86	88	0	0	0	0	209	1,950	109	0	0	0	2,111	118	0	0	0		
	12A	Local	25%																					
		Federal	75%																					
		O&M																						
		Total		0	0	1,667	2,395	106	114	0	2,703	121	0	250	1,950	131	0	0	2,111	142	0	0	0	
	12B	Local	25%																					
		Federal	75%																					
		O&M																						
		Total		0	2,301	273	278	0	5,196	309	0	3,944	5,624	335	0	0	6,088	362	0	556	6,589	392	6,855	

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Table D-3. Alternative D Cost Estimate Continued

Section	Placement Sites	Type	Cost Share	Year																			Total
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
21 to 22	15	Local	25%				0																
		Federal	75%				0																
		O&M Total		0	0	0	5,487	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16N	Local	25%		0																		
		Federal	75%		0																		
		O&M Total		0	3,819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		3,414	0	3,552	0	3,696	0	4,011	0	4,173	0	4,341	0	4,517	0	4,699	0	4,889	0	5,086	0
Devil's Elbow	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		8,160	0	8,490	0	8,833	0	9,589	0	9,977	0	10,380	0	10,799	0	11,236	0	11,689	0	12,161	0
16 to 21	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		19,004	0	19,773	0	0	21,894	0	22,778	0	0	24,173	0	25,150	0	0	26,688	0	27,766	0	0
	17-19-22	Local	25%					0	0														
		Federal	75%					0	0														
		O&M Total		0	0	0	0	0	0	34,314	26,372	10,438	0	0	0	0	0	0	0	0	0	0	0
12 to 16	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		18,511	0	19,259	0	0	21,326	0	22,187	0	0	23,545	0	24,497	0	0	25,995	0	27,045	0	0
9.5 to 12	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		0	10,220	0	0	10,846	0	0	12,011	0	0	12,746	0	0	13,526	0	0	14,354	0	0	15,232
5 to 9.5	ODMDS	Local	25%																				
		Federal	75%																				
		O&M Total		0	11,944	0	0	12,676	0	0	14,036	0	0	14,895	0	0	15,807	0	0	16,774	0	0	17,801
Total Project Mile 5-36 Option D	Local	25%	871	0	767	800	0	119	0	0	1,502	105	168	0	0	0	202	0	139	0	0	0	
	Federal	75%	2,614	0	2,301	2,401	0	356	0	0	4,505	315	503	0	0	0	606	0	417	0	0	0	
	O&M		49,246	38,845	51,564	10,778	41,891	49,334	50,053	102,872	24,809	12,128	94,299	12,692	65,607	35,421	16,297	66,931	50,400	61,513	17,639	39,888	
	LER's Total		367	2,933	1,904	11	0	0	340	0	304	0	0	0	0	0	0	0	0	0	0	0	
				52,731	38,845	54,632	13,979	41,891	49,809	50,053	102,872	30,816	12,548	94,970	12,692	65,607	35,421	17,105	66,931	50,956	61,513	17,639	39,888

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Table D-3. Alternative D Cost Estimate (Continued)

Section	Placement Sites	Type	Cost Share	Year																			Total			
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19		
Bar Channel	ODMDS/Agitation	Local	25%																							
		Federal	75%	6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453		
		O&M																								
		LER's																								
		Total		6,373	6,500	6,631	6,763	7,199	7,343	7,490	7,640	7,793	7,948	8,107	8,270	8,435	8,604	8,776	8,951	9,130	9,312	9,499	9,689	160,453		
Total Project Mile 5-36 and Bar Channel Option D				Local	25%	871	0	767	800	0	119	0	0	1,502	105	168	0	0	0	202	0	139	0	0	4,673	
				Federal	75%	2,614	0	2,301	2,401	0	356	0	0	4,505	315	503	0	0	0	606	0	417	0	0	14,019	
				O&M		55,619	45,345	58,195	17,541	49,090	56,677	57,543	110,512	32,602	20,076	102,406	20,962	74,042	44,025	25,073	75,882	59,530	70,825	27,138	49,577	1,052,660
				LER's		367	2,933	1,904	11	0	0	340	0	304	0	0	0	0	0	0	0	0	0	0	5,860	
				Total		59,472	48,279	63,167	20,753	49,090	57,152	57,883	110,512	38,913	20,496	103,077	20,962	74,042	44,025	25,881	75,882	60,086	70,825	27,138	49,577	1,077,211

COSTS SHOWN REFLECT CONDITIONS AND ESTIMATES FROM 2007. DUE TO THE EXCESSIVE COSTS OF THIS OPTION, IT WAS NOT CARRIED THROUGH COST COORDINATION.

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2 GENERAL BASIS OF ESTIMATE AND ASSUMPTIONS

2.1 Placement Areas (CDF's)

- Costs do not have as much variability or uncertainty as the Beneficial Use sites. Costs are based on considerable experience with numerous projects supported by historical data from the Corps. There is assumed little or no environmental issues or mitigation requirements affecting costs or implementation.
- Site Management costs are for minimum required efforts to insure that there is sufficient dry material for dike raising needed to support the schedule and meet capacity requirements. Initial efforts are repeated over 2 years to compensate for poor existing site conditions and provide better stability and more available material for dike raising. Following subsequent dredged material fill events, a single year effort is applied.
- Rehabilitation includes perimeter and interior ditching to obtain dry material for dike raising. Second lift dike raising assumes site management has been done in the interim and sufficient dry material is available and therefore does not include any ditching.
- Typical dike sections include 3:1 slopes and a 12 ft crown width. Dikes will be constructed/raised by side-casting material from the site interior.
- The dikes on the lakeside of CDFs 17, 19, 22, and D/E will be constructed with a 25' crown and 4:1 side slopes.
- Dike raising (initial and second lift) does not include any grassing or other stabilization. These costs are considered to be relatively minor.
- No interior training dikes are included, only perimeter containment dikes are constructed or raised.
- Site dimensions were estimated from aerial photos.
- Weir costs are current pricing data from USACE, Mobile for 16 ft (4 each, 4 ft long bay) weirs, 8 feet tall, including outfall pipes, installed; \$35,000 each.
- Due to wet conditions, dikes are constructed in two lifts; the total width of the 20-year dike is constructed in the initial construction to provide long term settlement and consolidation.
- Dike volume calculation for the bottom half of the 20-year dike: first sequence calculates the area of the trapezoid, and then compresses the area under the crown and 1/2 of the side slope length, simulating the "iceberg" effect of a displacement dike.

- Two passes on a perimeter dewatering ditch around the exterior and one interior pass of the rotary ditcher is included in the initial rehabilitation costs. Perimeter ditches all around the site are included in the initial effort. Perimeter ditches are shortened to two dike lengths for subsequent events to new weirs.
- The second lift volumes assume the site is managed in the interim; the material is dried and available as a result of management.
- Side-cast borrow costs are based on current costs of \$3.50/cy that includes side-casting, dressing and grassing where usable materials may be present adjacent to or near the existing dike alignment.
- In areas where longer haul efforts are required and the possibility of double or triple handling materials is required to achieve the dike template, the CY unit costs increase to \$6.00 and \$8.00 per/cy. This occurs on PAs 17, 19, 22, D/E.
- Side slopes for the dike are based on slope stability analyses and qualitative reviews of shear vane tests as discussed in the Geotechnical Report Appendix.
- Costs assume dredged material placed strategically around the site to provide dike stability and width for haul roads.
- The estimated remaining capacities of the CDFs subtract 2 feet for required site freeboard and 1 foot for ponding. For example, a site with 4 foot of remaining freeboard was estimated to have 1 foot of available dredged material capacity.

Table D-4, Site Management Costs, lists the assumptions made to determine the site management costs.

Table D-4. Site Management Costs

<u>Perimeter Ditching; Initial Effort</u>	
\$ 250.00	Hourly Cost for Marshbuggy Backhoe
40	feet per hour production first pass
35	feet per hour production second pass
\$ 6.25	per foot first pass
	per foot second
\$ 7.14	pass
<u>Interior Ditching; Initial Effort</u>	
\$ 4,000	daily cost for rotary ditcher
8000	feet per day
	per foot interior
\$ 0.50	ditch
100	center spacing for ditches
3	lines per acre @ 200 ft long
\$ 300.00	per acre
<u>Event Dry and Drain Costs</u>	
100	- Acres
2,100	- feet on each side
22	- lines for 100 ft spacing
46,200	- linear ft internal ditching
8,000	- feet per day production
	\$ per day for
4,000	- ditcher
5.78	- days of work
\$23,100	- sub-total, cost of interior ditching
\$231	- cost per acre to do internal ditching
	perimeter ditch on two sides
4200	- (ft)
	cost per ft, one
\$6.25	- pass
\$26,250	- sub-total cost perimeter ditch
\$3,000	- sub-total, cost to excavated sumps at weirs
\$52,350	- total DAMP cost
\$ 436.25	- per acre

Data Sources:

J. Simmons Group, Disposal Area Management Contractor for the Port of Houston
 US Army Corps of Engineers, Mobile District, Irvington Area Office

Assumptions:

Two passes are required for the initial perimeter ditches
 One internal pass of the rotary ditcher
 Perimeter ditches all around the site for the initial effort
 Perimeter ditches shortened to two dike lengths for subsequent events to new weirs

2.2 Beneficial Use Sites

- Costs have variability and uncertainty due to site conditions and access impediments, possible marsh dike stability issues, owner requirements and adjacent property impacts. Planning, engineering, permitting, access and coordination efforts could also be greater than estimated.
- Site management, planting or other habitat restoration efforts are not included; nor is removal or degrading of marsh containment dikes upon completion.
- Site dimensions were estimated from aerial photos and property maps.
- Available capacities (based on property acreage) were reduced by a third to a half to allow for open water areas and circulation in the marshes.
- Typical marsh dikes are assumed to be constructed to a height of 5-7 feet, using adjacent side cast borrow at an estimated unit price of \$55/lf.
- Typical site preparation does not include water control structures.
- Pipeline lengths were scaled from aerial photos from center of reach to center of site. Unit price to lay and remove shore pipeline was estimated at \$12/lf. Unit price to lay and remove marsh pipeline was estimated at \$16/lf.

Table D-5, Beneficial Use Site Parameters and Shore Protection Costs, details the assumptions made to determine the Beneficial Use Costs.

Table D-5. Beneficial Use Site Parameters and Shore Protection Costs

Site Designation	Shore Prot. Length (ft)	Event Dike Length (ft)	Laying Line Length (ft)	Misc Cost (\$1000)	Pipeline Cost (\$1000)	Event Containment Cost (\$1000)	Total Event Cost (\$)
Cameron Pr WR (19)		4,000	18,000		252	230	\$ 482,000.00
Cameron Pr WR (20)		4,000	31,000		455	230	\$ 684,666.67
Cameron SB (BU 49)		6,000	27,000		432	330	\$ 762,000.00
NWR 18 (BU 18)		6,000	23,000		322	330	\$ 652,000.00
Bell (6)		6,000	5,000	80	80	210	\$ 370,000.00
Bell (7)		13,000	24,000		384	910	\$ 1,294,000.00
NWR (5)		6,000	8,000		128	210	\$ 338,000.00
BU (48)		6,000	24,000		384	420	\$ 804,000.00
West Palermo							
E. Palermo (52)		3,000	4,000		64	330	\$ 394,000.00
W. Black Lake (50)		6,000	36,000		576	330	\$ 906,000.00
BU 24		8,000	48,000	75	768	440	\$ 1,283,000.00
Palermo (4)		6,000	8,000	20	128	330	\$ 478,000.00

Assumptions:

- \$ 12.00 per ft to lay and pick up shore pipe
- per ft to lay and pick up pipe in a
- \$ 16.00 marsh
- \$ 55.00 per linear foot of 5 ft high marsh dike using adjacent borrow
- \$ 35.00 per linear foot of 5 ft high dike built with an 8 cy bucket dredge
- 8 tons per ft rock shore protection for lake side expansions
- \$ 80.00 per ton of graded rock installed on earth fill, with filter fabric
- \$640 per ft shore protection

Miscellaneous costs are for drainage and water control structures on the sites that drain to adjacent properties.

Data Sources:

US Army Corps of Engineers, Mobile District
 US Army Corps of Engineers, Galveston District
 US Army Corps of Engineers, New Orleans District

2.3 Hydraulic Dredging Costs

- Dredging cost estimates are supported by historical prices for the region and by Corps data. Costs were estimated by developing production tables for various dredge plant configurations as applicable for the various site conditions and locations. Booster pump costs and mobilization/demobilization are included in the unit prices for dredging. Dredging costs were developed for 27 and 30 inch discharge hydraulic cutterhead dredges operating alone or utilizing 1 or 2 booster pumps depending on the pipeline lengths required for placement. Production estimates were produced utilizing data and

information from the Corps and dredging contractors as well as software systems specifically designed for estimating dredging production that consider pump size and power, dredge material characteristics and other factors. Operating and ownership costs including overhead, bond and profit were developed from data and information obtained from the Corps and dredging contractors for dredges that could be reasonably be expected to bid and perform the work resulting from implementation of the DMMP. For the CDF dredging costs, pipeline costs were assumed in the mobilization and demobilization as most of the CDFs used are adjacent. For BU costs the pipeline costs were added.

Table D-6, Hydraulic Cutterhead Dredge Cost and Production Analysis, details the analysis and assumptions made to determine the dredging and pipeline costs.

Table D-6. Hydraulic Cutterhead Dredge Cost and Production Analysis

Production			
27 inch dredge			
Line Length (ft)	23,500	40,300	41,500
Line Length (mi)	4	8	8
Dredge Production (cy/hr)	1,266		
with one booster (cy/hr)		947	931
with two boosters (cy/hr)		1,146	1,130
30-inch dredge			
Line Length (ft)	23500	40300	41500
Line Length (mi)	4.45	7.63	7.86
Dredge Production (cy/hr)	2350		
with one booster (cy/hr)		1840	1800

Ownership & Operating Cost		
30 inch dredges T James or Geo D. Wms	dredge & aux. plant	with booster added
Monthly Ownership Cost	\$232,555	\$265,315
Monthly Operating Cost	\$2,887,750	\$3,164,132
Total Monthly Cost	\$3,120,305	\$3,429,447
incl. OH & Bond(s)&contingency	\$3,749,251	\$4,163,169
incl. Profit	\$4,068,660	\$4,535,789

27 inch dredges Mike Hooks and Dredge 32	dredge & aux. plant	with booster added
Monthly Ownership Cost	\$232,555	\$265,315
Monthly Operating Cost	\$1,924,344	\$2,259,730
Total Monthly Cost	\$2,156,899	\$2,525,045
incl. OH & Bond(s)&contin	\$2,624,084	\$3,071,970
incl. Profit	\$2,861,343	\$3,349,725

Developed Unit Cost					
	27-inch dredge	27-inch with booster	27-inch 2 boosters	30-inch dredge	30-inch w/ booster
Run Hours dredge	18	18	18	18	
Run Hours w/ booster	16.5	16.5	15	16.5	16.5
Days per month	30.4	30.4	30.4	30.4	30.4
Monthly Production	692755.2	475015.2	515280	128592 0	922944
Unit Price	\$4.13	\$7.05	\$7.28	\$3.16	\$4.91
M&D / 2.0 million cys	\$0.25	\$0.38	\$0.50	\$0.28	\$0.40
	\$4.38	\$7.43	\$7.78	\$3.44	\$5.31
rounded unit /cy max pipeline length	\$3.44 23,000	\$5.31 41,000	\$5.31 45,000	\$3.44	\$5.31

The 30" dredge cost is the gover

Data Sources:

Gahagan & Bryant Dredge Production Analysis Program
 US Army Corps of Engineers, Mobile District, Irvington Area Office
 US Army Corps of Engineers, New Orleans District
 CUTPRO; ERDC Production
 Gahagan & Bryant Cost Database Production Analysis Program
 Historic Data Set from USACE, Weeks Marine and Mike Hooks Inc.

2.4 Shore Protection Costs

- Traditional shore protection costs are based on top elevation of 8 ft, a bottom elevation of -2 ft, side slopes at 3:1, with an application of 0.27 tons/sf/lf at \$80/ton resulting in a unit cost of \$640/lf.

2.5 Alternatives B and C Cutterhead Dredging

- General: Total volumes include non-pay excess dredging quantities. Pay volumes in estimate are reduced by dividing by 135%. Historical volumes used were from the 1995 to 2005 dredging contracts for all reaches except Reach 30-36, the Turning Basin, and Clooney Island Loop, which did not include 2005.
- General: Costs include 10% Engineering and Design, 8% Supervision and Administration for Construction and 15% Contingency for the first five years of the plan and a 20% contingency thereafter. A contingency is applied to cover minor variations and incidental costs through the planning, design and construction phases. This is not intended to cover variations in market factors such as dredge plant supply and demand, inflation fluctuations, spikes in fuel costs, etc.
- Reach 34-36: The channels are dredged on a 10 yr cycle. The Port/Non-federal quantity of 88,000cy is dredged every 5 years.
- Reach 30-34: Costs for Site 7 are split with Reach 26-30. DAMP is applied at Site 7 in years 0 and 1 due to wet existing conditions, in preparation for Rehabilitation and dike raising in year 3.
- Reach 26-30: Costs for Site 7 are split with Reach 30-34. DAMP is applied at Site 7 in years 0 and 1 due to wet existing conditions, in preparation for Rehabilitation and dike raising in year 3.
- Reach 21-22: Shore Protection is applied along the channel side of sites 15 and 16N.
- Reach 16-21: Shore Protection and Rehabilitation of Sites 17, 19, and 22 would likely take 2 years and should be initiated in year 3 to be ready to accept material in the combined site in year 5. The DAMP at the Foreshore Dike site is applied only for 1 year initially, as opposed to the typical 2-year application, since the site is new and the initial placement will not be much above the water table. Subsequent applications following fill events are also applied for 1 year only.
- Reach 12-16: Expansion of Sites D and E would likely take 2 years and should be initiated in year 3 to be ready to accept material in the combined site in year 5. The DAMP at the Foreshore Dike site is applied only for 1 year initially, as opposed to the

typical 2-year application, since the site is mostly new and relatively dry and consolidated. Subsequent applications following fill events are also applied for 1 year only.

- Reach 9.5-12: No DAMP or Shore Protection is applied in this reach since only non-adjacent Beneficial Use sites are utilized.
- Reach 5-9.5: Utilizes a combination of CDF rehabilitation and levee raising with beneficial use.

2.6 Alternative D – Hopper Dredging

- Reach 34-36, Reach 30-34, Reach 26-30, and Reach 22-26 are the same as in Alternatives B and C. Offshore disposal is not cost effective above Mile 22 because of the excessive travel distance to the disposal area.
- Dredging costs are based on a typical rental contract rate of \$1,600 per hour. Hourly rates are based on historical prices from New Orleans and Mobile District hopper rental contracts and include Mobilization/Demobilization allocations.
- Rental Costs include hopper dredge, survey vessel, survey plots and silent inspector telemetry.
- The estimate is primarily based on cycle time including dredging, travel to offshore disposal area, unloading, turning and return to dredging reach.
- Total time for dredging, unloading, and turning offshore is estimated to be 45 minutes. Due to the curvature in the channel through the Devils Elbow reach, the dredging time was increased to 1 hour.
- The distance to the offshore area is estimated at 7 miles beyond the channel entrance (Mile 0).
- Travel time to the disposal area is based on a typical loaded speed of 10.89 mph.
- Travel time to return to the dredging reach is based on a typical unloaded speed of 11.88 mph. The return time includes travel to turn around at Devils Elbow (Mile 23).
- An allowance of 1.1 hours was added to account for wait time for LNG traffic in the channel.
- A typical hopper dredge capacity of 6,300 (Eagle, now Terrapin Island and the Glen Edwards) cubic yards is used. This includes a reduction of 100 cubic yards to account for residual material after unloading.
- A load factor of 58% was applied to convert gross capacity of the hopper to the effective volume of dredged material.

- An efficiency factor of 95% was applied to the operating time to account for traffic, fueling, maintenance and repairs.
- The quantity of material to be dredged is the same as the quantities evaluated for Options B and C for purposes of comparison and calculation of costs and comparison of options.

Tables D-7, Industry Hopper Fleet Analysis for Mobile District Hopper Dredge Rental Contract, provide the parameters used for the basis of estimates for Hopper Dredging and placement at the ODMDS.

Table D-7. Industry Hopper Fleet Analysis for Mobile District Hopper Dredge Rental Contract

Hopper		EAGLE		Effective Capacity = 6300 cy 57% Load Factor		Rate = 3,500 \$/hr 95% Production Efficiency											Comparative Analysis		
Reach Start Mile	Reach Stop Mile	Pass to Dmp (mi)	Speed Light (mph)	Speed Loaded (mph)	Dump to Cut (hr)	Trav to Dump (hr)	L&D Time (hr)	LNG wait (hr)	Turn Time (hr)	DE & retn (hr)	Turn Cyc (hr)	DE Cy (hr)	Unit Price to turn	Unit Price to DE	Larger Unit Price				
5	9.5	7	11.88	10.89	1.389	1.4233	0.75	1.1	0.5	2.473	5.162	7.135	5.30	7.32	\$7.32				
9.5	12	7	11.88	10.89	1.599	1.6529	0.75	1.1	0.5	2.052	5.602	7.154	5.75	7.34	\$7.34				
12	16	7	11.88	10.89	1.936	2.0202	0.75	1.1	0.5	1.378	6.306	7.185	6.47	7.37	\$7.37				
16	21	7	11.88	10.89	2.357	2.4793	0.75	1.1	0.5	0.537	7.186	7.223	7.37	7.41	\$7.41				
21	22	7	11.88	10.89	2.441	2.5712	0.75	1.1		0.368	6.862	7.231	7.04	7.42	\$7.42				
22	22	7	11.88	10.89	2.441	2.5712	1	1.1		0.368	7.112	7.481	7.30	7.67	\$7.67				

Hopper		GLENN EDWARDS		Effective Capacity = 13372 cys 57% Load Factor		Rate = 3,200 \$/hr 95% Production Efficiency											Comparative Analysis		
Reach Start Mile	Reach Stop Mile	Pass to Dmp (mi)	Speed Light (mph)	Speed Loaded (mph)	Dump to Cut (hr)	Trav to Dump (hr)	L&D Time (hr)	LNG wait (hr)	Turn Time (hr)	DE & retn (hr)	Turn Cyc (hr)	DE Cy (hr)	Unit Price to turn	Unit Price to DE	Larger Unit Price				
5	9.5	7	13.56	11.24	1.217	1.379	1	1.1	0.5	1.991	5.196	6.687	2.30	2.96	\$2.96				
9.5	12	7	13.56	11.24	1.401	1.6014	1	1.1	0.5	1.622	5.603	6.725	2.48	2.97	\$2.97				
12	16	7	13.56	11.24	1.696	1.9573	1	1.1	0.5	1.032	6.253	6.786	2.76	3.00	\$3.00				
16	21	7	13.56	11.24	2.065	2.4021	1	1.1	0.5	0.295	7.067	6.862	3.12	3.03	\$3.12				
21	22	7	13.56	11.24	2.139	2.4911	1	1.1	0.5	0.147	7.23	6.877	3.20	3.04	\$3.20				
22	22	7	13.56	11.24	2.139	2.4911	1.25	1.1	0.5	0.147	7.48	7.127	3.31	3.15	\$3.31				

Notes & Assumptions

- Devils Elbow is from 22 to 23
- L&D is load and dump time
- The dredges are 300 ft long and could turn empty in the channel with thrusters, costs are both ways, used larger cost
- Used turning in the channel vs going to Devils Elbow for turning
- Several places for the dredge to leave the channel for LNG if anchorages constructed.
- Assumed hopper rental contract, digging on channel toes only.
- Travel time from ODMDS is to the top of the cut
- Rental Costs include hopper dredge, survey vessel, survey plots and silent inspector telemetered data to PM
- Hourly rates are from New Orleans and Mobile District hopper rental contracts and include Mob/Demob allocation

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3 SITE SPECIFIC INFORMATION

3.1 Alternative B – Emphasis on Placement at Currently Available Sites

Site specific assumptions for the cost estimate are provided by reach and site in the following subsections.

3.1.1 Reach 34-36

Site 1:

- Estimated dimensions: 50 acres surrounded by 6,300 lf of perimeter dike
- Typical dike section variance: N slope = 3.5:1, E slope = 3:1, W slope = 3:1 due to poor existing conditions/materials in these areas
- Initial dike raising/construction variance: short haul materials for N dike = 800 lf, E dike = 800 lf due to poor existing materials in these areas negating the option of side-casting
- Existing capacity: 97,000 cy based on an estimated remaining freeboard of 3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 887,700 cy
- Vertical Capacity/Ft = 80,700 cy
- Number of weirs, locations: 2, N and W
- Estimated dike foundation displacement/compaction: N = 2 ft, E = 0.5 ft, S = 0.5 ft, W = 0.5 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 2:

- Estimated dimensions: 44 acres surrounded by 5,400 lf of perimeter dike
- Typical dike section variance: N slope = 3:1, S slope = 3:1, W slope = 3.5:1 due to poor existing conditions/materials in these areas
- Initial dike raising/construction variance: short haul materials for N dike = 500 lf, S dike = 200 lf and long haul materials for W dike = 1,000 lf due to poor existing materials in these areas negating the option of side-casting
- Existing capacity: 97,000 cy based on an estimated remaining freeboard of 3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 807,000 cy
- Number of weirs, locations: 1, S

- Estimated dike foundation displacement/compaction: N = 0.7 ft, E = 0.5 ft, S = 0.7 ft, W = 1.5 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.2 Reach 30-34, Clooney Island and Turning Basin

Site 3:

- Estimated dimensions: 113 acres surrounded by 11,100 lf perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 364,600 cy based on an estimated remaining freeboard of 3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 2,187,600 cy
- Number of weirs, locations: 2, E and W
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 1 ft, S = 1 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump).

Site 7 (shared with Reach 26-30):

- Estimated dimensions: 257 acres surrounded by 13,000 lf of perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 414,600 cy based on an estimated remaining freeboard of 3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 3,731,400 cy
- Vertical Capacity = 414,600 cy/ft
- Number of weirs, location: 3, N and E and W
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 1.3 ft, S = 1.5 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump).

3.1.3 Reach 26-30

Site 7 (shared with Reach 30-34):

- Estimated dimensions: 257 acres surrounded by 13,000 lf of perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a

- Existing capacity: 414,600 cy based on an estimated remaining freeboard of 4 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft.
- Total Capacity with vertical expansion = 3,731,400 cy
- Number of weirs, location: 3, N and E and W
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 1.3 ft, S = 1.5 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 8:

- Estimated dimensions: 192 acres surrounded by 14,400 lf perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 2,478,400 cy
- Vertical Capacity: 309,800 cy/ft
- Number of weirs, locations: 3, E(2) and W
- Estimated dike foundation displacement/displacement/compaction: N = 1.4 ft, E = 1.7 ft, S = 1.8 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 9:

- Estimated dimensions: 170 acres surrounded by 12,500 lf perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 2,194,400 cy
- Vertical Capacity: 274,00 cy/ft
- Number of weirs, locations: 3, NE and SE and SW
- Estimated dike foundation displacement/displacement/compaction: N = 1.1 ft, E = 1.5 ft, S = 1.5 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.4 Reach 22-26

Site 10:

- Estimated dimensions: 135 acres surrounded by 10,100 lf of perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 1,742,400 cy
- Vertical Capacity = 217,800 cy/ft
- Number of weirs, location: 3, N and E and W
- Estimated dike foundation displacement/displacement/compaction: N = 1.3 ft, E = 1.8 ft, S = 1.3 ft, W = 1 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 11:

- Estimated dimensions: 135 acres surrounded by 10,000 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 217,800 cy based on an estimated remaining freeboard of 4 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 1,960,200 cy
- Vertical Capacity = 217,800 cy/ft
- Number of weirs, locations: 3, E(2) and S
- Estimated dike foundation displacement/displacement/compaction: N = 1.2 ft, E = 0.9 ft, S = 1.2 ft, W = 1.8 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 12A:

- Estimated dimensions: 160 acres surrounded by 12,000 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft

- Total Capacity with vertical expansion = 2,064,800 cy
- Vertical Capacity = 258,100 cy/ft
- Number of weirs, locations: 3, N and E and W
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 1.5 ft, S = 1 ft, W = 0.5 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 12B:

- Estimated dimensions: 433 acres surrounded by 23,600 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 2,095,800 cy based on an estimated remaining freeboard of 5 ft
- Vertical Capacity = 698,600 cy/ft
- Dike raising required: Initial lift = 5 ft, Final height = 8 ft
- Total Capacity with vertical expansion = 7,684,600 cy
- Vertical Capacity = 698,600 cy/ft
- Number of weirs, locations: 6, E(3) and S(2) and W
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 1.5 ft, S = 1.2 ft, W = 0.7 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.5 Reach 21-22**Site 15:**

- Estimated dimensions: 181 acres surrounded by 12,800 lf of perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 584,000 cy based on an estimated remaining freeboard of 4 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 3,504,000cy
- Vertical Capacity = 292,000 cy/ft
- Number of weirs, location: 2, E and S
- Estimated dike foundation displacement/displacement/compaction: N = 1 ft, E = 0.8 ft, S = 1 ft, W = 1.4 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 16N:

- Estimated dimensions: 168 acres surrounded by 11,100 lf perimeter dike
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 2,710,000 cy
- Vertical Capacity = 271,000 cy/ft
- Number of weirs, locations: 2, N and E
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 0.7 ft, S = 1.2 ft, W = 1.7 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.6 Reach Devil's Elbow**Site 13:**

- Estimated dimensions: 710 acres surrounded by 23,000 lf of perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: site divided into 2 cells (13A & 13B)
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2-3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 11,455,000 cy
- Vertical Capacity = 1,145,500 cy/ft
- Number of weirs, location: 6, N(add'l pipe costs) and E(add'l pipe costs) and S(2) and W(2)
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 1.5 ft, S = 1.2 ft, W = 0.7 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.7 Reach 16-21**Site BU50:**

- Estimated dimensions: Approximately 6,000 LF of dike will be constructed each event.
- Dikes needed to contain the dredged materials are constructed using in-situ material in the same year of the dredging cycle to meet the capacity requirement of the dredging cycle.

- Assumes dikes are existing on two sides
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity is estimated at 6,598,386 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 36,000 ft (1 booster pump) for a 30" dredge.

Site FSD (shared with Reach 12-16):

- Estimated dimensions: 260 acres surrounded by 24,000 lf perimeter dike
- Typical dike section variance: all slopes = n/a
- Initial dike raising/construction variance: rock dike protection
- Site specific surveys for elevation of the adjacent dike/land on CDFs D and E were not available for this analysis. Existing LIDAR Data was used to estimate the adjacent dike heights. It is assumed that the existing adjacent dike heights are at +20 or greater.
- In order to contain materials in the new FSD for this site in a manner that allows for vertical expansion and contains the dredged materials from flowing through the rock dike, an earthen dike will be constructed by a combination of side cast materials and dried and hauled materials from within the land portions of the adjacent CDF.
- Dike construction assumes that a bucket dredge will be used to construct the first dike lift. It is assumed that the bucket dredge will enter through the currently existing breach and that the breach will be closed upon completion of the first dike construction.
- The second dike lift will be hauled and side cast.
- Dike raising required: Initial lift = 10 ft, Final height = 20 ft
- Approximately 4,549,000 CY of the 8,390,000 capacity will be utilized for this reach and the remaining capacity of approximately 3,841,000 will be utilized in the mile 12-16 reach.
- Number of weirs, locations: \$70,000 included for drainage / water control structures
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 17:

- Estimated dimensions: 160 acres surrounded by 13,070 lf perimeter dike
- Typical dike section variance: slopes on the north, south and west = 3.5:1 due to poor existing conditions/materials
- Total Acres: 160
- Existing capacity: 309,700 cy
- Dike raising required: Initial lift = 5 ft
- Total Capacity with vertical expansion = 1,657,000 cy
- Number of weirs, locations: 2, E(2)
- Estimated dike foundation displacement/compaction: 17 - N = 3 ft, E = 3.0 ft, S = 1.2 ft, W = 0.8 ft.
- Dikes on the upland portion of the site will be constructed in one five foot lift.
- Dikes in poor foundation and subject to significant erosion on the lakeside of the CDF will be constructed with a 25 foot crown and 4:1 side slopes (approximately 3,000 LF).
- The remaining dikes on the northeast, south, and west will be constructed with a standard 12 foot crown and 1:3.5 side slopes.
- In order to contain materials in the new FSD for this site in a manner that allows for vertical expansion and contains the dredged materials from flowing through the rock dike, an earthen dike will be constructed by a combination of side cast materials and dried and hauled materials from within the land portions of the CDF.
- Site specific surveys for elevation of the adjacent dike/land on in the vicinity of CDF 17 were not available for this analysis. Existing LIDAR Data was used to estimate the adjacent dike heights. It is assumed that the existing dike/land heights range from +15 to +20.
- It is assumed that the height of the FSD earthen dikes will be raised to +20 in two lifts.
- CDF 19 is utilized before 17 in order to raise it's elevation closer to the existing elevations of CDF 17 so that the sites can be combined and utilized as one large site in the future.
- Approximately 2,100 LF of dike separates CDFs 17 and 19 and will be degraded in the future.
- Approximately 2,700 LF of the existing dikes will be degraded in front of the new CDF 17 FSD to allow the FSD and the upland site to be utilized as one area.
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 19:

- Estimated dimensions: 149 acres surrounded by 15,954 lf perimeter dike

- Existing capacity: n/a
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft.
- Total Capacity with vertical expansion = 2,507,000 cy
- Number of weirs, locations: 2, E(2)
- Estimated dike foundation displacement/compaction: N = 1.23 ft, E = 3.0 ft, S = 0 ft, W = 3.0 ft.
- Approximately 6,300 LF of existing land and old eroded dikes will be degraded in front of the new FSD to allow the FSD and the upland site to be utilized as one area.
- Dikes on the upland portion of the site will be constructed in two five foot lifts.
- Dikes in poor foundation and subject to significant erosion on the lakeside of the CDF will be constructed with a 25 foot crown and 4:1 side slopes (approximately 6,700 LF).
- The remaining dikes on the north, south, and west will be constructed with a standard 12 foot crown and 1:3.5 side slopes.
- In order to contain materials in the new FSD for this site in a manner that allows for vertical expansion and contains the dredged materials from flowing through the rock dike, an earthen dike will be constructed by a combination of side cast materials and dried and hauled materials from within the land portions of the CDF.
- Site specific surveys for elevation of the adjacent dike/land on in the vicinity of CDF 19 were not available for this analysis. Existing LIDAR Data was used to estimate the adjacent dike heights. It is assumed that the existing dike/land heights range from +4 to +8. The vertical expansion of the site will raise the dikes approximately 10 feet.
- It is assumed that the height of the FSD earthen dikes will be raised to +12 in two lifts.
- CDF 19 is utilized before 17 in order to raise it's elevation closer to the existing elevations of CDF 17 so that the sites can be combined and utilized as one large site in the future.
- Approximately 2,900 LF of shore protection will be placed on the remaining unprotected ship channel side of the CDF to reduce further erosion. Shore protection will be placed to an elevation of +6.
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site 22:

- Estimated dimensions: 236 acres surrounded by 14,670 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: 4:1 on the eastern slope due to poor existing conditions/materials and erosion
- Existing capacity: 214,500 cy based on an estimated remaining freeboard of 3 ft

- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft.
- Total Capacity with vertical expansion = 4,575,000 cy
- Number of weirs, locations: 2
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 3.0 ft, S = 0.9 ft, W = 0.0 ft.
- Approximately 6,100 LF of existing land and existing dikes will be degraded in front of the new CDF 22 FSD to allow the FSD and the upland site to be utilized as one area.
- Dikes on the upland portion of the site will be constructed in two five foot lifts.
- Dikes in poor foundation and subject to significant erosion on the lakeside of the CDF will be constructed with a 25 foot crown and 4:1 side slopes (approximately 5,300 LF).
- The remaining dikes on the northeast, and west will be constructed with a standard 12 foot crown and 1:3.5 side slopes.
- In order to contain materials in the new FSD for this site in a manner that allows for vertical expansion and contains the dredged materials from flowing through the rock dike, an earthen dike will be constructed by a combination of side cast materials and dried and hauled materials from within the land portions of the CDF.
- Site specific surveys for elevation of the adjacent dike/land in the vicinity of CDF 22 were not available for this analysis. Existing LIDAR Data was used to estimate the adjacent dike heights. It is assumed that the existing dike/land heights range from +16 to +20.
- It is assumed that the height of the FSD earthen dikes will be raised to +20 in two lifts.
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.8 Reach 12-16

Site BU5:

- Estimated dimensions: 2,200 acres w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 8,873,000 cy with a fill height of 5 ft assuming freeboard of 6 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 8,000 ft of pipeline used in conjunction with the CWWPRA pipeline.

Site D/E:

- Estimated dimensions: 402 acres ($D = 247$ ac, $E = 155$ ac) surrounded by 41,300 lf ($D = 25,000$ lf, $E = 16,300$ lf) perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials, 4:1 on the east dike due to poor foundation and high erosion.
- Initial dike raising/construction variance: combined use of sites D and E with initial vertical expansion of both
- Existing capacity: 398,500 cy
- Dike raising required: two 5 foot lifts
- Total Capacity with vertical expansion = 6,884,500 cy
- Number of weirs, locations: 6, E(2) and W at both sites
- Estimated dike foundation displacement/compaction: N = 0.7 ft, E = 3.0 ft, S = .5 ft, W = 0.0 ft.
- Dikes in poor foundation and subject to significant erosion on the lakeside of the CDF will be constructed with a 25 foot crown and 4:1 side slopes (approximately 18,500 LF).
- The remaining dikes on the north, south, and west will be constructed with a standard 12 foot crown and 1:3.5 side slopes.
- The dike between D&E will be degraded so that the site can be utilized as one site.
- It is assumed that once the FSD is filled to +20 that D&E will be combined with the FSD to be utilized as one facility in the future.
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site FSD (shared with Reach 16-21):

- Estimated dimensions: 260 acres surrounded by 24,000 lf perimeter dike
- Typical dike section variance: all slopes = n/a
- Initial dike raising/construction variance: rock dike protection
- Site specific surveys for elevation of the adjacent dike/land on CDFs D and E were not available for this analysis. Existing LIDAR Data was used to estimate the adjacent dike heights. It is assumed that the existing dike heights are at +20 or greater.
- In order to contain materials in the new FSD for this site in a manner that allows for vertical expansion and contains the dredged materials from flowing through the rock dike, an earthen dike will be constructed by a combination of side cast materials and dried and hauled materials from within the land portions of the CDF.
- Dike construction assumes that a bucket dredge will be used to construct the first dike lift. It is assumed that the bucket dredge will enter through the currently existing breach and that the breach will be closed upon completion of the first dike construction.
- The second dike lift will be hauled and side cast.

- Dike raising required: Initial lift = 10 ft, Final height = 20 ft
- Approximately 3,841,000 CY of the 8,390,000 CY capacity will be utilized for this reach and the remaining capacity of approximately 4,549,014 CY will be utilized in the mile 16-21 Reach.
- Number of weirs, locations: \$70,000 included for drainage / water control structures
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.1.9 Reach 9.5-12

Site BU18:

- Estimated dimensions: Available 2,300 acres with adjacent properties protected by a total of 30,000 lf of perimeter dike (2 sides), site divided into 1 cell for 6 placement events w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: all slopes = n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 6,946,800 cy with a fill height of 5 ft assuming freeboard of 6 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 23,000 ft (1 booster pump)

Site BU49:

- Estimated dimensions: 600 acres with adjacent properties protected by a total of 18,000 lf of perimeter dike (2 sides), site divided into 3 – 200 acre cells for 3 placement events w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 2,315,000 cy with a fill height of 5 ft assuming freeboard of 6 ft from top of dike to average bottom surface of site interior
- Number of weirs, locations: n/a

- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 27,000 ft (1 booster pump)

3.1.10 Reach 5-9.5

Site H:

- Estimated dimensions: 142 acres surrounded by 13,000 lf of perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: no dike raising/construction on W side
- Existing capacity: 458,000 cy based on an estimated remaining freeboard of 4 ft
- Dike raising required: Initial lift = 4 ft, no 2nd lift
- Total Capacity with vertical expansion = 1,374,400 cy
- Vertical Capacity = 229,100 cy/ft
- Number of weirs, location: 3, NW and SW(2)
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 0.8 ft, S = 1.2 ft, W = 0.5 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site M:

- Estimated dimensions: 392 acres surrounded by 18,600 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 5,059,200 cy
- Vertical Capacity = 632,400 cy/ft
- Number of weirs, locations: 4, N and E and S and W
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 1.8 ft, S = 1.3 ft, W = 0.7 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site N:

- Estimated dimensions: 219 acres surrounded by 16,400 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: n/a
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2 ft

- Dike raising required: Initial lift = 5 ft, Second lift = 3 ft
- Total Capacity with vertical expansion = 2,826,400cy
- Vertical Capacity = 219,300 cy/ft
- Number of weirs, locations: 3, N and S and W
- Estimated dike foundation displacement/compaction: N = 1.3 ft, E = 0.8 ft, S = 1 ft, W = 1.5 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site BU19/20:

- Estimated dimensions: 600 acres with adjacent properties protected by a total of 8,000 lf of perimeter dike (2 sides), site divided into 2 – 300 acre cells for 2 placement events w/ 4,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity = 1,551,000 cy for BU 19 and 775,000 for BU 20 with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior
- Number of weirs, locations: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 18,000 ft (no booster pump)

3.2 Alternative C – Emphasis on Placement at Beneficial Use Sites**3.2.1 Miles 36 to 22**

Same as Alternative B

3.2.2 Reach Devil's Elbow**Site 13:**

- Estimated dimensions: 710 acres surrounded by 23,000 lf of perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Initial dike raising/construction variance: site divided into 2 cells (13A & 13B)
- Existing capacity: 0 cy based on an estimated remaining freeboard of 2-3 ft
- Dike raising required: Initial lift = 5 ft, Second lift = 5 ft
- Total Capacity with vertical expansion = 11,455,000 cy

- Vertical Capacity = 1.145,500 cy/ft
- Number of weirs, location: 6, N (add'l pipe costs) and E (add'l pipe costs) and S(2) and W(2)
- Estimated dike foundation displacement/compaction: N = 1.2 ft, E = 1.5 ft, S = 1.2 ft, W = 0.7 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)

Site BU50:

- Estimated dimensions: Approximately 6,000 LF of dike will be constructed each event.
- Dikes needed to contain the dredged materials are constructed using in-situ material in the same year of the dredging cycle to meet the capacity requirement of the dredging cycle.
- Dikes will only be constructed to meet the dredging need at the time. No additional capacity will be created.
- Assumes dikes are existing on two sides
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity is estimated at 7,158,000 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior.
- Approximately 2,062,000 cy will be used in this reach and the remainder in 16-21.
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 36,000 ft (1 booster pump) for a 30" dredge.

3.2.3 Reach 16-21**Site BU4:**

- Estimated dimensions: 400 acres with adjacent properties protected by a total of 7,500 lf of perimeter dike (2 sides), 1 placement event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft

- Total Capacity with vertical expansion = 1,864,000 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: \$20,000 included for drainage / water control structure
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 8,000 ft (no booster pump)

Site BU24:

- Estimated dimensions: 450 acres with adjacent properties protected by a total of 18,000 lf of perimeter dike (2 sides), site divided into 3 – 150 acre cells for 3 placement events w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 4,350,000 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: \$75,000 included for drainage / water control structure
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 48,000 ft (2 booster pumps)

Site BU48:

- Estimated dimensions: 650 acres with adjacent properties protected by a total of 14,000 lf of perimeter dike (2 sides), site divided into 2 – 325 acre cells for 2 placement events w/ 7,500 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 6,214,000 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 24,000 ft (1 booster pump)

Site BU50:

- Estimated dimensions: Approximately 6,000 LF of dike will be constructed each event.
- Dikes needed to contain the dredged materials are constructed using in-situ material in the same year of the dredging cycle to meet the capacity requirement of the dredging cycle.
- Dikes will only be constructed to meet the dredging need at the time. No additional capacity will be created.
- Assumes dikes are existing on two sides
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity is estimated at 7,158,000 cy with a fill height of 6 ft assuming freeboard of 7 ft from top of dike to average bottom surface of site interior.
- Approximately 5,096,000 cy will be used in this reach and the remainder in Devil's Elbow.
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 36,000 ft (1 booster pump) for a 30" dredge.

Site BU52:

- Estimated dimensions: 150 acres with adjacent properties protected by a total of 8,000 lf of perimeter dike (2 sides), 1 placement event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 621,000 cy with a fill height of 3 ft
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 4,000 ft (no booster pump)

Site 17

- Estimated dimensions: 147 acres surrounded by 17,600 lf perimeter dike
- Typical dike section variance: all slopes = 3.5:1 due to poor existing conditions/materials
- Existing capacity: 309,700 cy based on an estimated remaining freeboard of 3-4 ft,

- Dike raising required: Initial lift = 6 ft, no 2nd lift
- Total Capacity with vertical expansion = 2,336,100 cy
- Number of weirs, locations: 2, E(1) and W(1)
- Estimated dike foundation displacement/compaction: 17 - N = 1.2 ft, E = 2.0 ft, S = 1.2 ft, W = 0.8 ft
- Dredge pipeline length: less than 23,000 ft (no booster pump)
- This alternative only uses all available land for CDF17 and does not consider any horizontal expansion as in Alternative B.

3.2.4 Reach 12-16

Site BU5:

- Estimated dimensions: 2,200 acres w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 8,873,000 cy with a fill height of 5 ft assuming freeboard of 6 ft from top of dike to average bottom surface of site interior
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 8,000 ft of pipeline used in conjunction with the CWWPRA pipeline.

Site BU6:

- Estimated dimensions: 12,000 lf of perimeter dike (2 sides), w/ 6,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 2,191,000 cy with a fill height of 2 ft
- Number of weirs, location: \$48,000 included for drainage / water control structure
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 8,000 ft in conjunction with the CWWPRA Pipeline (1 booster pump)

Site BU7:

- Estimated dimensions: 13,000 lf of marsh dikes constructed for each event
- Typical dike section variance: n/a
- Initial dike raising/construction variance: n/a
- Existing capacity: n/a
- Dike required: Final height = 5 ft
- Total Capacity with vertical expansion = 3,895,000 cy with a fill height of 2 ft
- Number of weirs, location: n/a
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: 24,000 ft (1 booster pump)

Site FSD:

- Estimated dimensions: 260 acres surrounded by 24,000 lf perimeter dike
- Typical dike section variance: all slopes = n/a
- Initial dike raising/construction variance: rock dike protection
- Existing capacity: n/a
- Dike raising required: Initial lift = 10 ft, Final height = 20 ft
- Total Capacity with vertical expansion = 8,390,000 cy
- Number of weirs, locations: \$70,000 included for drainage / water control structures
- Estimated dike foundation displacement/compaction: n/a
- Dredge pipeline length: less than 23,000 ft (no booster pump)

3.2.5 Reach 9.5-12

- Same as Alternative B

3.2.6 Reach 5 - 9.5

- Same as Alternative B

3.3 Alternative D – Placement of Material in the Ocean Disposal Management Site (ODMDS)**3.3.1 Miles 26 to 22**

- Same as Alternative B

3.3.2 Reach 21-22

- Material to the ODMDS
- Shore Protection is applied along the channel side of sites 15 and 16N to minimize erosion and subsequent channel shoaling.

3.3.3 Reach Devil's Elbow

- Material to the ODMDs.

3.3.4 Reach 16 – 21

- Material to the ODMDs.
- Shore Protection is applied along the channel side of sites 17 and 19 to minimize erosion and subsequent channel shoaling.

3.3.5 Reach 12 - 16

- Material to the ODMDs.

3.3.6 Reach 9.5 to 12

- Material to the ODMDs.
- Shore Protection is applied along the channel side of site H to minimize erosion and subsequent channel shoaling.

4 BAR CHANNEL

The Bar Channel ranges from Mile 0 to approximate Mile -30 where it meets the natural deep contour of the Gulf. Approximately 7 to 8 million cubic yards are dredged and agitated semi-annually on an as needed basis, typically through a rental contract. An average of 6.7 million cubic yards per year has been agitated in the channel and an average of 700,000 cubic yards per year have been placed in the ODMDs annually. To determine the preliminary costs for maintaining the Bar Channel, the average yearly cost over the last 5 years was determined at \$4.6 million. The costs were adjusted using a 10% Engineering and Design, 8% Supervision and Administration and 15% Contingency for the first 5 years and 20% for the remaining years. The costs for each cycle over the 20 year term of the DMMP were adjusted for escalation per 1110-2-1304 Civil Works Construction Cost Index System.

River Mile 34 - 36
Disposal Site - 1
 Total Capacity In CY - 887,700

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 524,000	\$524,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$ -	\$0
	Dredging (Pay yardage)	CY		\$ -	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$ 4,000	\$4,000
	E & D @10%	LS	1	\$52,400	\$52,400
	S & A @ 8%	LS	1	\$41,920	\$41,920
	Contingency @15%	LS	1	\$91,438	\$91,438
Event Total					\$713,758

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline	LS	1	\$ -	\$0
	Dredging (Gross yardage)	LS	399,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	295,704	\$3.44	\$1,017,222
	LERR	CY	1	\$0	\$0
	E & D @10%	LS	1	\$101,722.2	\$101,722
	S & A @ 8%	LS	1	\$81,377.7	\$81,378
	Contingency @15%	LS	1	\$180,048.3	\$180,048
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$22,000	\$22,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$2,200.0	\$2,200
	S & A @ 8%	LS	1	\$1,760.0	\$1,760
	Contingency @15%	LS	1	\$3,894.0	\$3,894
Event Total					\$29,854

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$22,000	\$22,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$2,200.0	\$2,200
	S & A @ 8%	LS	1	\$1,760.0	\$1,760
	Contingency @15%	LS	1	\$3,894.0	\$3,894
Event Total					\$29,854

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	118,800	\$0.00	\$0
	Dredging (Pay yardage)	CY	88,000	\$3.44	\$302,720
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$30,272	\$30,272
	S & A @ 8%	LS	1	\$24,218	\$24,218
	Contingency @20%	LS	1	\$71,442	\$71,442
	Event Total				\$428,652
9	Construction	LS	1	\$ 130,000	\$130,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$22,000	\$22,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$15,200	\$15,200
	S & A @ 8%	LS	1	\$12,160	\$12,160
	Contingency @20%	LS	1	\$35,872	\$35,872
	Event Total				\$215,232
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	399,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	295,704	\$3.44	\$1,017,222
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$101,722	\$101,722
	S & A @ 8%	LS	1	\$81,378	\$81,378
	Contingency @20%	LS	1	\$240,064	\$240,064
	Event Total				\$1,440,386
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$22,000	\$22,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$2,200	\$2,200
	S & A @ 8%	LS	1	\$1,760	\$1,760
	Contingency @20%	LS	1	\$5,192	\$5,192
	Event Total				\$31,152
	Disposal Site Total				\$4,269,257
	Cost/cy/capacity of site				\$4.81

**River Mile 34 - 36
Disposal Site - Site 2
Total Capacity In CY - 807,000**

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1	LS	\$ 378,000	\$378,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	LERR	1	LS	\$8,000	\$8,000
	E & D @10%	1	LS	\$37,800	\$37,800
	S & A @ 8%	1	LS	\$30,240	\$30,240
	Contingency @15%	1	LS	\$66,906	\$66,906
Event Total					\$520,946

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	1	LS	\$ -	\$0
	Pipeline	1	LS	\$ -	\$0
	Dredging (Gross yardage)	399,200	LS	\$0.00	\$0
	Dredging (Pay yardage)	295,704	CY	\$3.44	\$1,017,222
	LERR	1	CY	\$0	\$0
	E & D @10%	1	LS	\$101,722	\$101,722
	S & A @ 8%	1	LS	\$81,378	\$81,378
	Contingency @15%	1	LS	\$180,048	\$180,048
Event Total					\$1,380,370

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$19,000	\$19,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$1,900	\$1,900
	S & A @ 8%	1	LS	\$1,520	\$1,520
Contingency @15%	1	LS	\$3,363	\$3,363	
Event Total					\$25,783

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$19,000	\$19,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$1,900	\$1,900
	S & A @ 8%	1	LS	\$1,520	\$1,520
Contingency @15%	1	LS	\$3,363	\$3,363	
Event Total					\$25,783

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	1	LS	\$ 112,000	\$112,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$11,200	\$11,200
	S & A @ 8%	1	LS	\$8,960	\$8,960
	Contingency @20%	1	LS	\$27,552	\$27,552
Event Total					\$159,712

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	399,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	295,704	\$3.44	\$1,017,222
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$101,722	\$101,722
	S & A @ 8%	LS	1	\$81,378	\$81,378
	Contingency @20%	LS	1	\$240,064	\$240,064
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$19,000	\$19,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$1,900	\$1,900
	S & A @ 8%	LS	1	\$1,520	\$1,520
	Contingency @20%	LS	1	\$4,484	\$4,484
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	118,800	\$0.00	\$0
	Dredging (Pay yardage)	CY	88,000	\$3.44	\$302,720
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$30,272	\$30,272
	S & A @ 8%	LS	1	\$24,218	\$24,218
	Contingency @20%	LS	1	\$71,442	\$71,442
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$19,000	\$19,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$1,900	\$1,900
	S & A @ 8%	LS	1	\$1,520	\$1,520
	Contingency @20%	LS	1	\$4,484	\$4,484
	Event Total				

Disposal Site Total \$4,035,439

Cost/cy/capacity of site \$5.00

River Mile 30 - 34
 Disposal Site - 3
 Total Capacity In CY - 2,187,600

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 674,000	\$674,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$ -	\$0
	Dredging (Pay yardage)	CY		\$ -	\$0
	LERR	LS	1	\$ 138,000	\$138,000
	E & D @10%	LS	1	\$67,400.0	\$67,400
	S & A @ 8%	LS	1	\$53,920.0	\$53,920
	Contingency @15%	LS	1	\$119,298.0	\$119,298
	Event Total				\$1,052,618
1	Construction	LS	1	\$ -	\$0
	Pipeline	LS	1	\$ -	\$0
	Dredging (Gross yardage)	LS	1,440,450	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,067,000	\$3.44	\$3,670,480
	LERR	CY	1	\$0	\$0
	E & D @10%	LS	1	\$367,048	\$367,048
	S & A @ 8%	LS	1	\$293,638	\$293,638
	Contingency @15%	LS	1	\$649,675	\$649,675
	Event Total				\$4,980,841
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$49,000	\$49,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$4,900	\$4,900
	S & A @ 8%	LS	1	\$3,920	\$3,920
	Contingency @15%	LS	1	\$8,673	\$8,673
Event Total				\$66,493	
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$49,000	\$49,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$4,900	\$4,900
	S & A @ 8%	LS	1	\$3,920	\$3,920
	Contingency @15%	LS	1	\$8,673	\$8,673
Event Total				\$66,493	
5	Construction	LS	1	\$ 295,000	\$295,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$29,500	\$29,500
	S & A @ 8%	LS	1	\$23,600	\$23,600
	Contingency @20%	LS	1	\$72,865	\$72,865
	Event Total				\$420,965

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	375,300	\$0.00	\$0
	Dredging (Pay yardage)	CY	278,000	\$3.44	\$956,320
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$95,632	\$95,632
	S & A @ 8%	LS	1	\$76,506	\$76,506
	Contingency @20%	LS	1	\$225,692	\$225,692
	Event Total				\$1,354,149

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$49,000	\$49,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$4,900	\$4,900
	S & A @ 8%	LS	1	\$3,920	\$3,920
	Contingency @20%	LS	1	\$11,564	\$11,564
	Event Total				\$69,384

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	720,225	\$0.00	\$0
	Dredging (Pay yardage)	CY	533,500	\$3.44	\$1,835,240
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$183,524	\$183,524
	S & A @ 8%	LS	1	\$146,819	\$146,819
	Contingency @20%	LS	1	\$433,117	\$433,117
	Event Total				\$2,598,700

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$49,000	\$49,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$4,900	\$4,900
	S & A @ 8%	LS	1	\$3,920	\$3,920
	Contingency @20%	LS	1	\$11,564	\$11,564
	Event Total				\$69,384

Disposal Site Total \$10,679,027

Cost/cy/capacity of site \$4.88

**River Mile 30 - 34
Disposal Site - Site 7**

Total Capacity In CY - 3,316,800

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$206,000	\$206,000
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @15%	LS	1	\$9,912	\$9,912
	Event Total				\$281,992

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @15%	LS	1	\$9,912	\$9,912
	Event Total				\$75,992

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ 533,000	\$533,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$53,300	\$53,300
	S & A @ 8%	LS	1	\$42,640	\$42,640
	Contingency @15%	LS	1	\$94,341	\$94,341
	Event Total				\$723,281

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	720,225	\$0.00	\$0
	Dredging (Pay yardage)	CY	533,500	\$3.44	\$1,835,240
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$183,524	\$183,524
	S & A @ 8%	LS	1	\$146,819	\$146,819
	Contingency @20%	LS	1	\$433,117	\$433,117
	Event Total				\$2,598,700

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ 105,000	\$105,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$10,500	\$10,500
	S & A @ 8%	LS	1	\$8,400	\$8,400
	Contingency @20%	LS	1	\$24,780	\$24,780
	Event Total				\$148,680

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	375,300	\$0.00	\$0
	Dredging (Pay yardage)	CY	278,000	\$3.44	\$956,320
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$95,632	\$95,632
	S & A @ 8%	LS	1	\$76,506	\$76,506
	Contingency @20%	LS	1	\$225,692	\$225,692
	Event Total				\$1,354,149

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Disposal Site Total A \$5,420,682

**River Mile 26 - 30
Disposal Site - Site 7**

Disposal Site Total B \$8,262,648

Total \$13,683,330

Cost/cy/capacity of site \$4.13

River Mile 26 - 30
Disposal Site - 7
 Total Capacity In CY - 3,316,800

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$56,000	\$56,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$5,600	\$5,600
	S & A @ 8%	1	LS	\$4,480	\$4,480
	Contingency @15%	1	LS	\$9,912	\$9,912
Event Total					\$75,992

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$56,000	\$56,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$5,600	\$5,600
	S & A @ 8%	1	LS	\$4,480	\$4,480
	Contingency @15%	1	LS	\$9,912	\$9,912
Event Total					\$75,992

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	1	LS	\$ 533,000	\$533,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$53,300	\$53,300
	S & A @ 8%	1	LS	\$42,640	\$42,640
	Contingency @15%	1	LS	\$94,341	\$94,341
Event Total					\$723,281

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @20%	LS	1	\$441,799	\$441,799
	Event Total				\$3,387,126

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216
	Event Total				\$79,296

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ 105,000	\$105,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$10,500	\$10,500
	S & A @ 8%	LS	1	\$8,400	\$8,400
	Contingency @20%	LS	1	\$24,780	\$24,780

Event Total \$148,680

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @20%	LS	1	\$589,065	\$589,065

Event Total \$3,534,393

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,600	\$5,600
	S & A @ 8%	LS	1	\$4,480	\$4,480
	Contingency @20%	LS	1	\$13,216	\$13,216

Event Total \$79,296

Disposal Site Total \$8,262,648

Disposal Site Total A \$5,420,682

River Mile 26 - 30
Disposal Site - Site 7

Disposal Site Total B \$8,262,648

Total \$13,683,330

Cost/cy/capacity of site \$4.13

River Mile River Mile 26 - 30
Disposal Site - Site 8
 Total Capacity In CY - 2,478,400

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ 1,099,000	\$1,099,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$10,000	\$10,000
	E & D @10%	LS	1	\$109,900	\$109,900
	S & A @ 8%	LS	1	\$87,920	\$87,920
	Contingency @15%	LS	1	\$194,523	\$194,523
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @15%	LS	1	\$441,799	\$441,799
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$84,000	\$84,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$8,400	\$8,400
	S & A @ 8%	LS	1	\$6,720	\$6,720
	Contingency @20%	LS	1	\$20,664	\$20,664
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$84,000	\$84,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$8,400	\$8,400
	S & A @ 8%	LS	1	\$6,720	\$6,720
	Contingency @20%	LS	1	\$20,664	\$20,664
	Event Total				\$119,784
8	Construction	LS	1	\$ 242,000	\$242,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$24,200	\$24,200
	S & A @ 8%	LS	1	\$19,360	\$19,360
	Contingency @20%	LS	1	\$57,112	\$57,112
	Event Total				\$342,672
9	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @20%	LS	1	\$589,065	\$589,065
	Event Total				\$3,534,393
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$84,000	\$84,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$8,400	\$8,400
	S & A @ 8%	LS	1	\$6,720	\$6,720
	Contingency @20%	LS	1	\$19,824	\$19,824
	Event Total				\$118,944
	Disposal Site Total				\$9,124,046
	Cost/CY/capacity				\$3.68

River Mile 26 - 30
Disposal Site - Site 9
 Total Capacity In CY - 2,194,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$ 969,000	\$969,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$253,000	\$253,000
	E & D @10%	LS	1	\$96,900	\$96,900
	S & A @ 8%	LS	1	\$77,520	\$77,520
	Contingency @20%	LS	1	\$229,169	\$229,169
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @20%	LS	1	\$589,065	\$589,065
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$74,000	\$74,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,400	\$7,400
	S & A @ 8%	LS	1	\$5,920	\$5,920
	Contingency @20%	LS	1	\$17,464	\$17,464
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$74,000	\$74,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,400	\$7,400
	S & A @ 8%	LS	1	\$5,920	\$5,920
	Contingency @20%	LS	1	\$17,464	\$17,464
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$21,000	\$21,000
	S & A @ 8%	LS	1	\$16,800	\$16,800
	Contingency @20%	LS	1	\$49,560	\$49,560
	Event Total				\$297,360
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	979,551	\$0.00	\$0
	Dredging (Pay yardage)	CY	725,593	\$3.44	\$2,496,040
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$249,604	\$249,604
	S & A @ 8%	LS	1	\$199,683	\$199,683
	Contingency @20%	LS	1	\$589,065	\$589,065
	Event Total				\$3,534,393
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$74,000	\$74,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,400	\$7,400
	S & A @ 8%	LS	1	\$5,920	\$5,920
	Contingency @20%	LS	1	\$17,464.00	\$17,464
	Event Total				\$104,784
	Disposal Site Total				\$9,306,086
	Cost/cy/capacity of site				\$4.24

River Mile 22 - 26					
Disposal Site - 10					
Total Capacity In CY - 1,742,400					
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	1	LS	\$ 967,000	\$967,000
	Pipeline Installation	1	LS	\$	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$147,000	\$147,000
	E & D @10%	1	LS	\$96,700	\$96,700
	S & A @ 8%	1	LS	\$77,360	\$77,360
	Contingency @15%	1	LS	\$175,027	\$175,027
		Event Total			
3	Construction	1	LS	\$	\$0
	Pipeline Installation	1	LS	\$	\$0
	Dredging (Gross yardage)	635,301	CY	\$0.00	\$0
	Dredging (Pay yardage)	470,593	CY	\$3.44	\$1,618,840
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$161,884	\$161,884
	S & A @ 8%	1	LS	\$129,507	\$129,507
	Contingency @15%	1	LS	\$286,535	\$286,535
		Event Total			
4	Construction	1	LS	\$	\$0
	Pipeline Installation	1	LS	\$	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$59,000	\$59,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$5,900	\$5,900
	S & A @ 8%	1	LS	\$4,720	\$4,720
	Contingency @15%	1	LS	\$10,443	\$10,443
		Event Total			
5	Construction	1	LS	\$	\$0
	Pipeline Installation	1	LS	\$	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$59,000	\$59,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$5,900	\$5,900
	S & A @ 8%	1	LS	\$4,720	\$4,720
	Contingency @20%	1	LS	\$13,924	\$13,924
		Event Total			
10	Construction	1	LS	\$ 119,000	\$119,000
	Pipeline Installation	1	LS	\$	\$0
	Dredging (Gross yardage)		CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$0.00	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$11,900	\$11,900
	S & A @ 8%	1	LS	\$9,520	\$9,520
	Contingency @20%	1	LS	\$28,084	\$28,084
		Event Total			

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$	- \$0
	Pipeline Installation	LS	1	\$	- \$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697

Event Total \$1,528,182

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$	- \$0
	Pipeline Installation	LS	1	\$	- \$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	F & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @20%	LS	1	\$13,924	\$13,924

Event Total \$83,544

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$	- \$0
	Pipeline Installation	LS	1	\$	- \$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697

Event Total \$1,528,182

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$	- \$0
	Pipeline Installation	LS	1	\$	- \$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @20%	LS	1	\$13,924	\$13,924

Event Total \$83,544

Disposal Site Total \$7,215,415

Cost/cy/capacity of site \$4.14

**River Mile 22 - 26
Disposal Site - 11**
Total Capacity In CY - 1,960,200

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 926,000	\$926,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$2,000	\$2,000
	E & D @10%	LS	1	\$92,600	\$92,600
	S & A @ 8%	LS	1	\$74,080	\$74,080
	Contingency @15%	LS	1	\$167,606	\$167,606
	Event Total				\$1,262,286

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @15%	LS	1	\$191,023	\$191,023
	Event Total				\$1,464,507

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @15%	LS	1	\$10,443	\$10,443
	Event Total				\$80,063

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @15%	LS	1	\$10,443	\$10,443
	Event Total				\$80,063

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	635,301	\$0.00	\$0
	Dredging (Pay yardage)	CY	470,593	\$3.44	\$1,618,840
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$161,884	\$161,884
	S & A @ 8%	LS	1	\$129,507	\$129,507
	Contingency @20%	LS	1	\$382,046	\$382,046
	Event Total				\$2,292,277

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @20%	LS	1	\$13,924	\$13,924
Event Total				\$83,544	

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ 118,000	\$118,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$11,800	\$11,800
	S & A @ 8%	LS	1	\$9,440	\$9,440
	Contingency @20%	LS	1	\$27,848	\$27,848
Event Total				\$167,088	

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697
Event Total				\$1,528,182	

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @20%	LS	1	\$13,924	\$13,924
	Event Total				\$83,544

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697
	Event Total				\$1,528,182

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$59,000	\$59,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$5,900	\$5,900
	S & A @ 8%	LS	1	\$4,720	\$4,720
	Contingency @20%	LS	1	\$13,924	\$13,924
	Event Total				\$83,544

Disposal Site Total **\$8,653,280**

Cost/cy/capacity of site **\$4.41**

River Mile 22 - 26

Disposal Site - 12 A

Total Capacity In CY - 2,064,800

Total Capacity In CY for A & B - 9,749,400

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ 1,150,000	\$1,150,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$1,636,000	\$1,636,000
	E & D @10%	LS	1	\$115,000	\$115,000
	S & A @ 8%	LS	1	\$92,000	\$92,000
	Contingency @15%	LS	1	\$211,600	\$211,600
	Event Total				\$3,204,600

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	635,299	\$0.00	\$0
	Dredging (Pay yardage)	CY	470,592	\$3.44	\$1,618,836
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$161,884	\$161,884
	S & A @ 8%	LS	1	\$129,507	\$129,507
	Contingency @15%	LS	1	\$286,534	\$286,534
	Event Total				\$2,196,761

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$70,000	\$70,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,000	\$7,000
	S & A @ 8%	LS	1	\$5,600	\$5,600
	Contingency @15%	LS	1	\$12,390	\$12,390
	Event Total				\$94,990

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$70,000	\$70,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,000	\$7,000
	S & A @ 8%	LS	1	\$5,600	\$5,600
	Contingency @20%	LS	1	\$16,520	\$16,520
	Event Total				\$99,120

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	635,299	\$0.00	\$0
	Dredging (Pay yardage)	CY	470,592	\$3.44	\$1,618,836
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$161,884	\$161,884
	S & A @ 8%	LS	1	\$129,507	\$129,507
	Contingency @20%	LS	1	\$382,045	\$382,045
	Event Total				\$2,292,272
8	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$70,000	\$70,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,000	\$7,000
	S & A @ 8%	LS	1	\$5,600	\$5,600
	Contingency @20%	LS	1	\$16,520	\$16,520
	Event Total				\$99,120
10	Construction	LS	1	\$ 142,000	\$142,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$14,200	\$14,200
	S & A @ 8%	LS	1	\$11,360	\$11,360
	Contingency @20%	LS	1	\$33,512	\$33,512
	Event Total				\$201,072
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697
	Event Total				\$1,528,182

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$70,000	\$70,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,000	\$7,000
	S & A @ 8%	LS	1	\$5,600	\$5,600
	Contingency @20%	LS	1	\$16,520	\$16,520
	Event Total				\$99,120
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	423,533	\$0.00	\$0
	Dredging (Pay yardage)	CY	313,728	\$3.44	\$1,079,224
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$107,922	\$107,922
	S & A @ 8%	LS	1	\$86,338	\$86,338
	Contingency @20%	LS	1	\$254,697	\$254,697
	Event Total				\$1,528,182
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$70,000	\$70,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,000	\$7,000
	S & A @ 8%	LS	1	\$5,600	\$5,600
	Contingency @20%	LS	1	\$16,520	\$16,520
	Event Total				\$99,120
	Disposal Site Total A				\$11,442,539
	Disposal Site Total B				\$33,911,730
	Total				\$45,354,269
	Cost/cy/capacity of site				\$4.65

River Mile 22 - 26
Disposal Site - 12 B
 Total Capacity In CY - 7,684,600
 Total Capacity In CY for A & B - 9,749,400

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	847,067	\$0.00	\$0
	Dredging (Pay yardage)	CY	627,457	\$3.44	\$2,158,452
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$2,802,000	\$2,802,000
	E & D @10%	LS	1	\$215,845	\$215,845
	S & A @ 8%	LS	1	\$172,676	\$172,676
	Contingency @15%	LS	1	\$382,046	\$382,046
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$189,000	\$189,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$18,900	\$18,900
	S & A @ 8%	LS	1	\$15,120	\$15,120
	Contingency @15%	LS	1	\$33,453	\$33,453
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$189,000	\$189,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$18,900	\$18,900
	S & A @ 8%	LS	1	\$15,120	\$15,120
	Contingency @15%	LS	1	\$33,453	\$33,453
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price	
5	Construction	LS	1	\$ -	\$0	
	Pipeline Installation	LS	1	\$ -	\$0	
	Dredging (Gross yardage)	CY	1,270,600	\$0.00	\$0	
	Dredging (Pay yardage)	CY	941,185	\$3.44	\$3,237,676	
	LERR	LS	1	\$0	\$0	
	E & D @10%	LS	1	\$323,768	\$323,768	
	S & A @ 8%	LS	1	\$259,014	\$259,014	
	Contingency @20%	LS	1	\$764,092	\$764,092	
	Event Total					\$4,584,550

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$189,000	\$189,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$18,900	\$18,900
	S & A @ 8%	LS	1	\$15,120	\$15,120
	Contingency @20%	LS	1	\$44,604	\$44,604

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
					Event Total \$267,624
8	Construction	1	LS	\$ 2,316,000	\$2,316,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$231,600	\$231,600
	S & A @ 8%	1	LS	\$185,280	\$185,280
	Contingency @20%	1	LS	\$546,576	\$546,576

Event Total \$3,279,456

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,270,600	CY	\$0.00	\$0
	Dredging (Pay yardage)	941,185	CY	\$3.44	\$3,237,676
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$323,768	\$323,768
	S & A @ 8%	1	LS	\$259,014	\$259,014
	Contingency @20%	1	LS	\$764,092	\$764,092

Event Total \$4,584,550

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$189,000	\$189,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$18,900	\$18,900
	S & A @ 8%	1	LS	\$15,120	\$15,120
	Contingency @20%	1	LS	\$44,604	\$44,604

Event Total \$267,624

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,270,600	CY	\$0.00	\$0
	Dredging (Pay yardage)	941,185	CY	\$3.44	\$3,237,676
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$323,768	\$323,768
	S & A @ 8%	1	LS	\$259,014	\$259,014
	Contingency @20%	1	LS	\$764,092	\$764,092

Event Total \$4,584,550

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$189,000	\$189,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$18,900	\$18,900
	S & A @ 8%	1	LS	\$15,120	\$15,120
	Contingency @20%	1	LS	\$44,604	\$44,604

Event Total \$267,624

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	1	LS	\$ 279,000	\$279,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$27,900	\$27,900
	S & A @ 8%	1	LS	\$22,320	\$22,320
	Contingency @20%	1	LS	\$65,844	\$65,844
	Event Total				\$395,064

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,270,600	CY	\$0.00	\$0
	Dredging (Pay yardage)	941,185	CY	\$3.44	\$3,237,676
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$323,768	\$323,768
	S & A @ 8%	1	LS	\$259,014	\$259,014
	Contingency @20%	1	LS	\$764,092	\$764,092
	Event Total				\$4,584,550

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$189,000	\$189,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$18,900	\$18,900
	S & A @ 8%	1	LS	\$15,120	\$15,120
	Contingency @20%	1	LS	\$44,604	\$44,604
	Event Total				\$267,624

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
19	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,270,600	CY	\$0.00	\$0
	Dredging (Pay yardage)	941,185	CY	\$3.44	\$3,237,676
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$323,768	\$323,768
	S & A @ 8%	1	LS	\$259,014	\$259,014
	Contingency @20%	1	LS	\$764,092	\$764,092
	Event Total				\$4,584,550

Disposal Site Total \$33,911,730

Disposal Site Total A \$11,442,539

Disposal Site Total B \$33,911,730

Total \$45,354,269

Cost/cy/capacity of site \$4.65

**River Mile 21 - 22
Disposal Site - 15
Total Capacity In CY - 3,504,000**

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	445,900	CY	\$0.00	\$0
	Dredging (Pay yardage)	330,296	CY	\$3.44	\$1,136,218
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$953,000	\$953,000
	E & D @10%	1	LS	\$113,622	\$113,622
	S & A @ 8%	1	LS	\$90,897	\$90,897
	Contingency @15%	1	LS	\$201,111	\$201,111
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$79,000	\$79,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$7,900	\$7,900
	S & A @ 8%	1	LS	\$6,320	\$6,320
	Contingency @15%	1	LS	\$13,983	\$13,983
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$79,000	\$79,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$7,900	\$7,900
	S & A @ 8%	1	LS	\$6,320	\$6,320
	Contingency @15%	1	LS	\$13,983	\$13,983
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	1	LS	\$ 1,244,000	\$1,244,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Shore Protection	1	LS	\$3,712,000	\$3,712,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$495,600	\$495,600
	S & A @ 8%	1	LS	\$396,480	\$396,480
	Contingency @15%	1	LS	\$877,212	\$877,212
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @15%	LS	1	\$201,111	\$201,111

Event Total \$1,541,848

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$79,000	\$79,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,900	\$7,900
	S & A @ 8%	LS	1	\$6,320	\$6,320
	Contingency @20%	LS	1	\$18,644	\$18,644

Event Total \$111,864

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148

Event Total \$1,608,885

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$79,000	\$79,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,900	\$7,900
	S & A @ 8%	LS	1	\$6,320	\$6,320
	Contingency @20%	LS	1	\$18,644	\$18,644

Event Total \$111,864

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148

Event Total \$1,608,885

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$79,000	\$79,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$7,900	\$7,900
	S & A @ 8%	1	LS	\$6,320	\$6,320
	Contingency @20%	1	LS	\$18,644	\$18,644
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	1	LS	\$ 302,000	\$302,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$30,200	\$30,200
	S & A @ 8%	1	LS	\$24,160	\$24,160
	Contingency @20%	1	LS	\$71,272	\$71,272
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	445,900	CY	\$0.00	\$0
	Dredging (Pay yardage)	330,296	CY	\$3.44	\$1,136,218
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$113,622	\$113,622
	S & A @ 8%	1	LS	\$90,897	\$90,897
	Contingency @20%	1	LS	\$268,148	\$268,148
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$79,000	\$79,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$7,900	\$7,900
	S & A @ 8%	1	LS	\$6,320	\$6,320
	Contingency @20%	1	LS	\$18,644	\$18,644
	Event Total				

Disposal Site Total \$16,678,137

Cost/cy/capacity of site \$4.76

River Mile 21 - 22
Disposal Site - 16 N
 Total Capacity In CY - 2,710,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ 1,130,000	\$1,130,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Shore Protection	LS	1	\$2,688,000	\$2,688,000
	LERR	LS	1	\$735,000	\$735,000
	E & D @10%	LS	1	\$381,800	\$381,800
	S & A @ 8%	LS	1	\$305,440	\$305,440
	Contingency @15%	LS	1	\$671,968	\$671,968
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @15%	LS	1	\$201,111	\$201,111
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @15%	LS	1	\$12,921	\$12,921
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @20%	LS	1	\$16,177	\$16,177
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @20%	LS	1	\$17,228	\$17,228
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ 262,000	\$262,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$26,200	\$26,200
	S & A @ 8%	LS	1	\$20,960	\$20,960
	Contingency @20%	LS	1	\$61,832	\$61,832
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @20%	LS	1	\$17,228	\$17,228
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148
Event Total					\$1,608,885

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @20%	LS	1	\$17,228	\$17,228
Event Total					\$103,368

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	445,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	330,296	\$3.44	\$1,136,218
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,622	\$113,622
	S & A @ 8%	LS	1	\$90,897	\$90,897
	Contingency @20%	LS	1	\$268,148	\$268,148
Event Total					\$1,608,885

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
19	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$73,000	\$73,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$7,300	\$7,300
	S & A @ 8%	LS	1	\$5,840	\$5,840
	Contingency @20%	LS	1	\$17,228	\$17,228
Event Total					\$103,368

Disposal Site Total \$14,875,438
Cost/cy/capacity of site \$5.49

**Devil's Elbow
Disposal Site - 13 A**

Total Capacity 13A + B In CY - 11,455,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1	LS	\$ 1,425,000	\$1,425,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$1,990,000	\$1,990,000
	E & D @10%	1	LS	\$142,500	\$142,500
	S & A @ 8%	1	LS	\$114,000	\$114,000
	Contingency @15%	1	LS	\$255,360	\$255,360
	Event Total				\$3,926,860

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,031,000	CY	\$0.00	\$0
	Dredging (Pay yardage)	763,704	CY	\$3.44	\$2,627,142
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$262,714	\$262,714
	S & A @ 8%	1	LS	\$210,171	\$210,171
	Contingency @15%	1	LS	\$465,004	\$465,004
	Event Total				\$3,565,031

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$155,000	\$155,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$15,500	\$15,500
	S & A @ 8%	1	LS	\$12,400	\$12,400
	Contingency @15%	1	LS	\$27,435	\$27,435
	Event Total				\$210,335

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$155,000	\$155,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$15,500	\$15,500
	S & A @ 8%	1	LS	\$12,400	\$12,400
	Contingency @15%	1	LS	\$27,435	\$27,435
	Event Total				\$210,335

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,031,000	CY	\$0.00	\$0
	Dredging (Pay yardage)	763,704	CY	\$3.44	\$2,627,142
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$262,714	\$262,714
	S & A @ 8%	1	LS	\$210,171	\$210,171
	Contingency @15%	1	LS	\$465,004	\$465,004
	Event Total				\$3,565,031

Mile Devils Elbow, CDF 13A, Page34

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$155,000	\$155,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$15,500	\$15,500
	S & A @ 8%	1	LS	\$12,400	\$12,400
	Contingency @20%	1	LS	\$36,580	\$36,580
Event Total					\$219,480

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	1	LS	\$ 297,000	\$297,000
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$29,700	\$29,700
	S & A @ 8%	1	LS	\$23,760	\$23,760
	Contingency @20%	1	LS	\$70,092	\$70,092
Event Total					\$420,552

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,031,000	CY	\$0.00	\$0
	Dredging (Pay yardage)	763,704	CY	\$3.44	\$2,627,142
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$262,714	\$262,714
	S & A @ 8%	1	LS	\$210,171	\$210,171
	Contingency @20%	1	LS	\$620,005	\$620,005
Event Total					\$3,720,033

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	0	CY	\$0.00	\$0
	Dredging (Pay yardage)	0	CY	\$3.44	\$0
	Damp	1	LS	\$155,000	\$155,000
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$15,500	\$15,500
	S & A @ 8%	1	LS	\$12,400	\$12,400
	Contingency @20%	1	LS	\$36,580	\$36,580
Event Total					\$219,480

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	1	LS	\$ -	\$0
	Pipeline Installation	1	LS	\$ -	\$0
	Dredging (Gross yardage)	1,031,000	CY	\$0.00	\$0
	Dredging (Pay yardage)	763,704	CY	\$3.44	\$2,627,142
	Damp	1	LS	\$0	\$0
	LERR	1	LS	\$0	\$0
	E & D @10%	1	LS	\$262,714	\$262,714
	S & A @ 8%	1	LS	\$210,171	\$210,171
	Contingency @20%	1	LS	\$620,005	\$620,005
Event Total					\$3,720,033

Mile Devils Elbow, CDF 13A, Page35

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$155,000	\$155,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$15,500	\$15,500
	S & A @ 8%	LS	1	\$12,400	\$12,400
	Contingency @20%	LS	1	\$36,580	\$36,580
	Event Total				\$219,480

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	1,031,000	\$0.00	\$0
	Dredging (Pay yardage)	CY	763,704	\$3.44	\$2,627,142
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$262,714	\$262,714
	S & A @ 8%	LS	1	\$210,171	\$210,171
	Contingency @20%	LS	1	\$620,005	\$620,005
	Event Total				\$3,720,033

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$155,000	\$155,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$15,500	\$15,500
	S & A @ 8%	LS	1	\$12,400	\$12,400
	Contingency @20%	LS	1	\$36,580	\$36,580

Event Total \$219,480

Disposal Site Total A \$23,936,163

Disposal Site Total B \$22,098,929

Total \$46,035,092

Cost/cy/capacity of site \$4.02

**Devil's Elbow
Disposal Site - 13 B**
Total Capacity 13A + B In CY - 11,455,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	1S	1	\$ 1,425,000	\$1,425,000
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY	0	\$0.00	\$0
	Dredging (Pay yardage)	0CY	0	\$3.44	\$0
	Shore Protection	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$142,500	\$142,500
	S & A @ 8%	1S	1	\$114,000	\$114,000
	Contingency @15%	1S	1	\$252,225	\$252,225
	Event Total				\$1,933,725

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	1,031,000CY	1,031,000	\$0.00	\$0
	Dredging (Pay yardage)	763,704CY	763,704	\$3.44	\$2,627,142
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$262,714	\$262,714
	S & A @ 8%	1S	1	\$210,171	\$210,171
	Contingency @15%	1S	1	\$465,004	\$465,004
	Event Total				\$3,565,031

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY	0	\$0.00	\$0
	Dredging (Pay yardage)	0CY	0	\$0.00	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @15%	1S	1	\$27,435	\$27,435
	Event Total				\$210,335

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY	0	\$0.00	\$0
	Dredging (Pay yardage)	0CY	0	\$3.44	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @15%	1S	1	\$27,435	\$27,435
	Event Total				\$210,335

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	1,031,000CY	1,031,000	\$0.00	\$0
	Dredging (Pay yardage)	763,704CY	763,704	\$3.44	\$2,627,142
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$262,714	\$262,714
	S & A @ 8%	1S	1	\$210,171	\$210,171
	Contingency @20%	1S	1	\$620,005	\$620,005
	Event Total				\$3,720,033

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY		\$0.00	\$0
	Dredging (Pay yardage)	0CY		\$3.44	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @20%	1S	1	\$36,580	\$36,580
Event Total					\$219,480

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	1S	1	\$ 297,000	\$297,000
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY		\$0.00	\$0
	Dredging (Pay yardage)	0CY		\$0.00	\$0
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$29,700	\$29,700
	S & A @ 8%	1S	1	\$23,760	\$23,760
	Contingency @20%	1S	1	\$70,092	\$70,092
Event Total					\$420,552

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	1,031,000CY		\$0.00	\$0
	Dredging (Pay yardage)	763,704CY		\$3.44	\$2,627,142
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$262,714	\$262,714
	S & A @ 8%	1S	1	\$210,171	\$210,171
	Contingency @20%	1S	1	\$620,005	\$620,005
Event Total					\$3,720,033

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY		\$0.00	\$0
	Dredging (Pay yardage)	0CY		\$0.00	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @20%	1S	1	\$36,580	\$36,580
Event Total					\$219,480

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	1,031,000CY		\$0.00	\$0
	Dredging (Pay yardage)	763,704CY		\$3.44	\$2,627,142
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$262,714	\$262,714
	S & A @ 8%	1S	1	\$210,171	\$210,171
	Contingency @20%	1S	1	\$620,005	\$620,005
Event Total					\$3,720,033

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY	0	\$0.00	\$0
	Dredging (Pay yardage)	0CY	0	\$3.44	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @20%	1S	1	\$36,580	\$36,580
Event Total					\$219,480
18	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	1,031,000CY	1,031,000	\$0.00	\$0
	Dredging (Pay yardage)	763,704CY	763,704	\$3.44	\$2,627,142
	Damp	1S	1	\$0	\$0
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$262,714	\$262,714
	S & A @ 8%	1S	1	\$210,171	\$210,171
	Contingency @20%	1S	1	\$620,005	\$620,005
Event Total					\$3,720,033
19	Construction	1S	1	\$ -	\$0
	Pipeline Installation	1S	1	\$ -	\$0
	Dredging (Gross yardage)	0CY	0	\$0.00	\$0
	Dredging (Pay yardage)	0CY	0	\$3.44	\$0
	Damp	1S	1	\$155,000	\$155,000
	LERR	1S	1	\$0	\$0
	E & D @10%	1S	1	\$15,500	\$15,500
	S & A @ 8%	1S	1	\$12,400	\$12,400
	Contingency @20%	1S	1	\$36,580	\$36,580
Event Total					\$219,480
Disposal Site Total B					\$22,098,029
Disposal Site Total A					\$23,936,163
Disposal Site Total B					\$22,098,929
Total					\$46,035,092
Cost/cy/capacity of site					\$4.02

River Mile 16 -21
Disposal Site - 50 MVN Plan 8-19-10
Total Capacity In CY - 7,158,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$330,000	\$330,000
	Pipeline Installation	LS	1	\$576,000	\$576,000
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$5.31	\$4,888,740
	LERR	LS	1	\$553,000	\$553,000
	E & D @10%	LS	1	\$634,774	\$634,774
	S & A @ 8%	LS	1	\$507,819	\$507,819
	Contingency @15%	LS	1	\$1,123,550	\$1,123,550
	Event Total				\$8,600,000
2	Construction	LS	1	\$330,000	\$330,000
	Pipeline Installation	LS	1	\$576,000	\$576,000
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$5.31	\$4,888,740
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$579,474	\$579,474
	S & A @ 8%	LS	1	\$463,579	\$463,579
	Contingency @20%	LS	1	\$1,367,559	\$1,367,559
	Event Total				\$8,200,000
7	Construction	LS	1	\$330,000	\$330,000
	Pipeline Installation	LS	1	\$576,000	\$576,000
	Dredging (Gross yardage)	CY	1,242,900	\$0	\$0
	Dredging (Pay yardage)	CY	920,667	\$5.31	\$4,888,740
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$579,474	\$579,474
	S & A @ 8%	LS	1	\$463,579	\$463,579
	Contingency @20%	LS	1	\$1,367,559	\$1,367,559
	Event Total				\$8,200,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$330,000	\$330,000
	Pipeline Installation	LS	1	\$576,000	\$576,000
	Dredging (Gross yardage)	CY	1,241,772	\$0	\$0
	Dredging (Pay yardage)	CY	919,831	\$5.31	\$4,884,303
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$579,030	\$579,030
	S & A @ 8%	LS	1	\$463,224	\$463,224
	Contingency @20%	LS	1	\$1,366,512	\$1,366,512
				Event Total	\$8,200,000
17	Construction	LS	1	\$330,000	\$330,000
	Pipeline Installation	LS	1	\$576,000	\$576,000
	Dredging (Gross yardage)	CY	1,627,914	\$0	\$0
	Dredging (Pay yardage)	CY	1,205,862	\$5.31	\$6,403,128
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$730,913	\$730,913
	S & A @ 8%	LS	1	\$584,730	\$584,730
	Contingency @20%	LS	1	\$1,724,954	\$1,724,954
				Event Total	\$10,300,000
				Disposal Site Total	\$43,500,000
				Cost/cy/capacity of site	\$6.08

Plan C River Mile 16 -21

BU 4

Total Capacity In CY - 1,864,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ 350,000	\$350,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$339,000	\$339,000
	E & D @10%	LS	1	\$35,000	\$35,000
	S & A @ 8%	LS	1	\$28,000	\$28,000
	Contingency @20%	LS	1	\$80,150	\$80,150
		Event Total			
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	1,864,274	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,380,944	\$5.31	\$7,332,813
	Damp	LS	1	\$56,000	\$56,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$751,681	\$751,681
	S & A @ 8%	LS	1	\$601,345	\$601,345
	Contingency @20%	LS	1	\$1,698,800	\$1,698,800
		Event Total			
	Disposal Site Total				\$11,400,789
	Cost/cy/capacity of site				\$6.12

**Plan C River Mile 16 -21
Disposal Site - BU 24**

Total Capacity In CY - 4,356,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ 515,000	\$515,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$908,000	\$908,000
	E & D @10%	LS	1	\$51,500	\$51,500
	S & A @ 8%	LS	1	\$41,200	\$41,200
	Contingency @20%	LS	1	\$121,540	\$121,540
	Event Total				\$1,637,240

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 768,000	\$768,000
	Dredging (Gross yardage)	CY	1,118,565	\$0.00	\$0
	Dredging (Pay yardage)	CY	828,567	\$5.31	\$4,399,691
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$516,769	\$516,769
	S & A @ 8%	LS	1	\$413,415	\$413,415
	Contingency @20%	LS	1	\$1,219,575	\$1,219,575
	Event Total				\$7,317,450

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ 515,000	\$515,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$51,500	\$51,500
	S & A @ 8%	LS	1	\$41,200	\$41,200
	Contingency @20%	LS	1	\$121,540	\$121,540
	Event Total				\$729,240

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 768,000	\$768,000
	Dredging (Gross yardage)	CY	2,485,700	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,841,259	\$5.31	\$9,777,085
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$1,054,509	\$1,054,509
	S & A @ 8%	LS	1	\$843,607	\$843,607
	Contingency @20%	LS	1	\$2,488,640	\$2,488,640
	Event Total				\$14,931,841

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ 258,000	\$258,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$25,800	\$25,800
	S & A @ 8%	LS	1	\$20,640	\$20,640
	Contingency @20%	LS	1	\$60,888	\$60,888
	Event Total				\$365,328
17	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 768,000	\$768,000
	Dredging (Gross yardage)	CY	745,710	\$0.00	\$0
	Dredging (Pay yardage)	CY	552,378	\$5.31	\$2,933,127
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$370,113	\$370,113
	S & A @ 8%	LS	1	\$296,090	\$296,090
	Contingency @20%	LS	1	\$876,797	\$876,797
	Event Total				\$5,244,127
	Disposal Site Total				\$30,225,226
	Cost/cy/capacity of site				\$6.94

Plan C River Mile 16 -21
Disposal Site - BU 48
Total Capacity In CY - 6,214,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ 420,000	\$420,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$749,000	\$749,000
	E & D @10%	LS	1	\$42,000	\$42,000
	S & A @ 8%	LS	1	\$33,600	\$33,600
	Contingency @15%	LS	1	\$74,340	\$74,340
Event Total					\$1,318,940

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 384,000	\$384,000
	Dredging (Gross yardage)	CY	2,485,700	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,841,259	\$5.31	\$9,777,085
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$1,016,109	\$1,016,109
	S & A @ 8%	LS	1	\$812,887	\$812,887
	Contingency @15%	LS	1	\$1,798,512	\$1,798,512
Event Total					\$13,788,593

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ 420,000	\$420,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$42,000	\$42,000
	S & A @ 8%	LS	1	\$33,600	\$33,600
	Contingency @20%	LS	1	\$99,120	\$99,120
Event Total					\$594,720

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	1,118,565	\$0.00	\$0
	Dredging (Pay yardage)	CY	828,567	\$5.31	\$4,399,691
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$439,969	\$439,969
	S & A @ 8%	LS	1	\$351,975	\$351,975
	Contingency @20%	LS	1	\$1,038,327	\$1,038,327
Event Total					\$6,229,962

Mile 16-21, BU 48, Page45

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ 420,000	\$420,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$42,000	\$42,000
	S & A @ 8%	LS	1	\$33,600	\$33,600
	Contingency @20%	LS	1	\$99,120	\$99,120
	Event Total				\$594,720

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 384,000	\$384,000
	Dredging (Gross yardage)	CY	1,242,851	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,630	\$5.31	\$4,888,545
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$527,255	\$527,255
	S & A @ 8%	LS	1	\$421,804	\$421,804
	Contingency @20%	LS	1	\$1,244,321	\$1,244,321
	Event Total				\$7,465,924

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ 420,000	\$420,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$42,000	\$42,000
	S & A @ 8%	LS	1	\$33,600	\$33,600
	Contingency @20%	LS	1	\$99,120	\$99,120
	Event Total				\$594,720

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 384,000	\$384,000
	Dredging (Gross yardage)	CY	1,367,136	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,012,693	\$5.31	\$5,377,400
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$576,140	\$576,140
	S & A @ 8%	LS	1	\$460,912	\$460,912
	Contingency @20%	LS	1	\$1,361,246	\$1,361,246
	Event Total				\$8,159,698

Disposal Site Total \$38,747,277

Cost/cy/capacity of site \$6.24

**Plan C River Mile 16 -21
Disposal Site - BU 52**
Total Capacity In CY - 621,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$81,000	\$81,000
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,913	\$77,913
	Event Total				\$548,313
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 64,000	\$64,000
	Dredging (Gross yardage)	CY	621,425	\$0.00	\$0
	Dredging (Pay yardage)	CY	460,315	\$5.31	\$2,444,273
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$250,827	\$250,827
	S & A @ 8%	LS	1	\$200,662	\$200,662
	Contingency @20%	LS	1	\$591,952	\$591,952
	Event Total				\$3,551,714
	Disposal Site Total				\$4,100,027
	Cost/cy/capacity of site				\$6.60

Plan C River Mile 16 -21
Disposal Site - CDF 17
 Total Capacity In CY - 2,336,100

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ 1,826,000	\$1,826,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$182,600	\$182,600
	S & A @ 8%	LS	1	\$146,080	\$146,080
	Contingency @20%	LS	1	\$418,519	\$418,519
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price	
17	Construction	LS	1	\$ -	\$0	
	Pipeline Installation	LS	1	\$ -	\$0	
	Dredging (Gross yardage)	CY	1,739,989	\$0.00	\$0	
	Dredging (Pay yardage)	CY	1,288,881	\$3.44	\$4,433,751	
	LERR	LS	1	\$0	\$0	
	E & D @10%	LS	1	\$443,375	\$443,375	
	S & A @ 8%	LS	1	\$354,700	\$354,700	
	Contingency @20%	LS	1	\$1,046,365	\$1,046,365	
	Event Total					\$6,278,191

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$64,000	\$64,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$6,400	\$6,400
	S & A @ 8%	LS	1	\$5,120	\$5,120
	Contingency @20%	LS	1	\$15,104	\$15,104
	Event Total				

Disposal Site Total **\$8,942,014**

Cost/CY/capacity of site **\$3.83**

River Mile 16 -21
Plan B - Disposal Site - 17
(Vertical expansion with new FSD)
Total Capacity In CY - 1,657,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$2,544,000	\$2,544,000
	Shore Protection	LF	1,598	\$480	\$767,040
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$290,000	\$290,000
	LERR	LS	1	\$294,000	\$294,000
	E & D @10%	LS	1	\$389,504	\$389,504
	S & A @ 8%	LS	1	\$311,603	\$311,603
	Contingency @20%	LS	1	\$919,229	\$919,229
Event Total					\$5,500,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	799,114	\$0.00	\$0
	Dredging (Pay yardage)	CY	591,936	\$3.44	\$2,036,261
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$203,626	\$203,626
	S & A @ 8%	LS	1	\$162,901	\$162,901
	Contingency @20%	LS	1	\$480,558	\$480,558
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$145,000	\$145,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$14,500	\$14,500
	S & A @ 8%	LS	1	\$11,600	\$11,600
	Contingency @20%	LS	1	\$34,220	\$34,220
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$524,000	\$524,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$52,400	\$52,400
	S & A @ 8%	LS	1	\$41,920	\$41,920
	Contingency @20%	LS	1	\$123,664	\$123,664
	Event Total				\$700,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	857,886	\$0.00	\$0
	Dredging (Pay yardage)	CY	635,471	\$3.44	\$2,186,021
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$218,602	\$218,602
	S & A @ 8%	LS	1	\$174,882	\$174,882
	Contingency @20%	LS	1	\$515,901	\$515,901
	Event Total				\$3,100,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$145,000	\$145,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$14,500	\$14,500
	S & A @ 8%	LS	1	\$11,600	\$11,600
	Contingency @20%	LS	1	\$34,220	\$34,220
	Event Total				\$200,000

Disposal Site Total \$12,600,000

Cost/CY/capacity of site \$7.60

River Mile 16 -21

Disposal Site - 19

Total Capacity In CY - 2,507,000

Vertical Expansion on all current land with new PSD

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$4,288,000	\$4,288,000
	Shore Protection	LF	2,953	\$480	\$1,417,440
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$116,000	\$116,000
	LERR	LS	1	\$22,000	\$22,000
	E & D @10%	LS	1	\$584,344	\$584,344
	S & A @ 8%	LS	1	\$467,475	\$467,475
	Contingency @15%	LS	1	\$1,034,289	\$1,034,289
	Event Total				\$7,900,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$316,709	\$316,709
	S & A @ 8%	LS	1	\$253,367	\$253,367
	Contingency @20%	LS	1	\$747,434	\$747,434
	Event Total				\$4,500,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$116,000	\$116,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$11,600	\$11,600
	S & A @ 8%	LS	1	\$9,280	\$9,280
	Contingency @20%	LS	1	\$27,376	\$27,376
	Event Total				\$200,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$758,500	\$758,500
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$75,850	\$75,850
	S & A @ 8%	LS	1	\$60,680	\$60,680
	Contingency @20%	LS	1	\$179,006	\$179,006
	Event Total				\$1,100,000

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	820,314	\$0.00	\$0
	Dredging (Pay yardage)	CY	607,640	\$3.44	\$2,090,282
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$209,028	\$209,028
	S & A @ 8%	LS	1	\$167,223	\$167,223
	Contingency @20%	LS	1	\$493,306	\$493,306
	Event Total				\$3,000,000
11	Construction	LS	1	\$503,000	\$503,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$116,000	\$116,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$61,900	\$61,900
	S & A @ 8%	LS	1	\$49,520	\$49,520
	Contingency @20%	LS	1	\$146,084	\$146,084
	Event Total				\$900,000
12	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	443,786	\$0.00	\$0
	Dredging (Pay yardage)	CY	328,730	\$3.44	\$1,130,832
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$113,083	\$113,083
	S & A @ 8%	LS	1	\$90,467	\$90,467
	Contingency @20%	LS	1	\$266,876	\$266,876
	Event Total				\$1,600,000
13	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$116,000	\$116,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$11,600	\$11,600
	S & A @ 8%	LS	1	\$9,280	\$9,280
	Contingency @20%	LS	1	\$27,376	\$27,376
	Event Total				\$200,000
	Disposal Site Total				\$19,400,000
	Cost/cy/capacity of site				\$7.74

River Mile 16 -21
Disposal Site - 22 PLAN C
 Total Capacity In CY - 1,931,000

Reach Event Requirements In CY - 2,485,800

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$950,000	\$950,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$58,000	\$58,000
	LERR	LS	1	\$22,000	\$22,000
	E & D @10%	LS	1	\$417,509	\$417,509
	S & A @ 8%	LS	1	\$334,007	\$334,007
	Contingency @20%	LS	1	\$968,622	\$968,622
	Event Total				\$5,917,232
	Disposal Site Total				\$5,917,232
	Cost/CY/capacity of site				\$3.06

River Mile 16 -21
Disposal Site - 22
 Total Capacity In CY - 4,575,000
 Vertical Expansion with new FSD

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$5,410,000	\$5,410,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$150,000	\$150,000
	LERR	LS	1	\$22,000	\$22,000
	E & D @10%	LS	1	\$558,200	\$558,200
	S & A @ 8%	LS	1	\$446,560	\$446,560
	Contingency @15%	LS	1	\$988,014	\$988,014
					Event Total
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$316,709	\$316,709
	S & A @ 8%	LS	1	\$253,367	\$253,367
	Contingency @20%	LS	1	\$747,434	\$747,434
					Event Total
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$150,000	\$150,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$15,000	\$15,000
	S & A @ 8%	LS	1	\$12,000	\$12,000
	Contingency @20%	LS	1	\$35,400	\$35,400
					Event Total
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$1,411,000	\$1,411,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$141,100	\$141,100
	S & A @ 8%	LS	1	\$112,880	\$112,880
	Contingency @20%	LS	1	\$332,996	\$332,996
					Event Total

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	845,172	\$0.00	\$0
	Dredging (Pay yardage)	CY	626,053	\$3.44	\$2,153,623
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$215,362	\$215,362
	S & A @ 8%	LS	1	\$172,290	\$172,290
	Contingency @20%	LS	1	\$508,255	\$508,255
		Event Total			
11	Construction	LS	1	\$642,000	\$642,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$150,000	\$150,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$79,200	\$79,200
	S & A @ 8%	LS	1	\$63,360	\$63,360
	Contingency @20%	LS	1	\$186,912	\$186,912
		Event Total			
12	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$316,709	\$316,709
	S & A @ 8%	LS	1	\$253,367	\$253,367
	Contingency @20%	LS	1	\$747,434	\$747,434
		Event Total			
13	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$150,000	\$150,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$15,000	\$15,000
	S & A @ 8%	LS	1	\$12,000	\$12,000
	Contingency @20%	LS	1	\$35,400	\$35,400
		Event Total			

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,244,028	\$0.00	\$0
	Dredging (Pay yardage)	CY	921,502	\$3.44	\$3,169,968
	DAMP	LS	1	\$58,000	\$58,000
	LERR	LS	1	\$0	\$0
	E & D @ 10%	LS	1	\$322,797	\$322,797
	S & A @ 8%	LS	1	\$258,237	\$258,237
	Contingency @ 20%	LS	1	\$761,800	\$761,800
					Event Total
16	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$150,000	\$150,000
	LERR	LS	1	\$0	\$0
	E & D @ 10%	LS	1	\$15,000	\$15,000
	S & A @ 8%	LS	1	\$12,000	\$12,000
	Contingency @ 20%	LS	1	\$35,400	\$35,400
					Event Total
				Disposal Site Total	\$27,900,000
				Cost/CY/capacity of site	\$6.10

River Mile 16-21
Disposal Site - Foreshore Dike

Total Capacity In CY - 8,390,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$5,264,000	\$5,264,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$2,000	\$2,000
	E & D @10%	LS	1	\$843,309	\$843,309
	S & A @ 8%	LS	1	\$674,647	\$674,647
	Contingency @15%	LS	1	\$1,492,658	\$1,492,658
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @15%	LS	1	\$23,187	\$23,187
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$316,709	\$316,709
	S & A @ 8%	LS	1	\$253,367	\$253,367
	Contingency @15%	LS	1	\$560,576	\$560,576
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @15%	LS	1	\$23,187	\$23,187
	Event Total				

Mile 16-21/12-16, FSD, Page57

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$0	\$0
Goes to 12-16	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,217,250	\$0	\$0
	Dredging (Pay yardage)	CY	901,667	\$3.44	\$3,101,733
	DAMP	LS	0	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$310,173	\$310,173
	S & A @ 8%	LS	1	\$248,139	\$248,139
	Contingency @20%	LS	1	\$732,009	\$732,009
				Event Total	\$4,400,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$2,622,000	\$2,622,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$275,300	\$275,300
	S & A @ 8%	LS	1	\$220,240	\$220,240
	Contingency @20%	LS	1	\$649,708	\$649,708
				Event Total	\$3,900,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,242,900	\$0.00	\$0
	Dredging (Pay yardage)	CY	920,667	\$3.44	\$3,167,093
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$316,709	\$316,709
	S & A @ 8%	LS	1	\$253,367	\$253,367
	Contingency @20%	LS	1	\$747,434	\$747,434
				Event Total	\$4,500,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @20%	LS	1	\$30,916	\$30,916
				Event Total	\$200,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	820,314	\$0.00	\$0
	Dredging (Pay yardage)	CY	607,640	\$3.44	\$2,090,282
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$209,028	\$209,028
	S & A @ 8%	LS	1	\$167,223	\$167,223
	Contingency @20%	LS	1	\$493,306	\$493,306
Event Total					\$3,000,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @20%	LS	1	\$30,916	\$30,916
Event Total					\$200,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12 Goes to Mile 12-16	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	419,000	\$0	\$0
	Dredging (Pay yardage)	CY	310,370	\$3.44	\$1,067,674
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$119,867	\$119,867
	S & A @ 8%	LS	1	\$95,894	\$95,894
	Contingency @20%	LS	1	\$282,887	\$282,887
Event Total					\$1,700,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13 Goes to Mile 12-16	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @20%	LS	1	\$30,916	\$30,916
Event Total					\$200,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	15 Construction	LS	1	0	0
Goes to	Pipeline Installation	LS	1	\$0	\$0
Mile 12-16	Dredging (Gross yardage)	CY	1,217,250	\$0	\$0
	Dredging (Pay yardage)	CY	901,667	\$3.44	\$3,101,733
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$323,273	\$323,273
	S & A @ 8%	LS	1	\$258,619	\$258,619
	Contingency @20%	LS	1	\$762,925	\$762,925
	Event Total				\$4,600,000
16	Construction	LS	1	\$0	\$0
Goes to	Pipeline Installation	LS	1	\$0	\$0
Mile 12-16	Dredging (Gross yardage)	CY	0	\$0	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @20%	LS	1	\$30,916	\$30,916
	Event Total				\$200,000
17	Construction	LS	1	\$0	\$0
Goes to	Pipeline Installation	LS	1	\$0	\$0
Mile 12-16	Dredging (Gross yardage)	CY	865,000	\$0	\$0
	Dredging (Pay yardage)	CY	640,741	\$3.44	\$2,204,148
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$220,415	\$220,415
	S & A @ 8%	LS	1	\$176,332	\$176,332
	Contingency @20%	LS	1	\$520,179	\$520,179
	Event Total				\$3,100,000
18	Construction	LS	1	\$0	\$0
Goes to	Pipeline Installation	LS	1	\$0	\$0
Mile 12-16	Dredging (Gross yardage)	CY	0	\$0	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$13,100	\$13,100
	S & A @ 8%	LS	1	\$10,480	\$10,480
	Contingency @20%	LS	1	\$30,916	\$30,916
	Event Total				\$200,000
	Disposal Site Total				\$42,300,000
	Cost/cy/capacity of site				\$5.04

Mile 16-21/12-16, FSD, Page60

River Mile 12 - 16
Disposal Site - BU 5
 Total Capacity In CY - 8,873,300

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	2,434,500	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,803,333	\$5.31	\$9,575,700
	LERR	LS	1	\$5,000	\$5,000
	E & D @10%	LS	1	\$991,870	\$991,870
	S & A @ 8%	LS	1	\$793,496	\$793,496
	Contingency @15%	LS	1	\$1,755,610	\$1,755,610
				Event Total	\$13,500,000
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	LS	2,434,500	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,803,333	\$5.31	\$9,575,700
	LERR	CY	1	\$0	\$0
	E & D @10%	LS	1	\$991,370	\$991,370
	S & A @ 8%	LS	1	\$793,096	\$793,096
	Contingency @15%	LS	1	\$1,754,725	\$1,754,725
				Event Total	\$13,500,000
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	1,217,250	\$0.00	\$0
	Dredging (Pay yardage)	CY	901,667	\$5.31	\$4,787,850
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$512,585	\$512,585
	S & A @ 8%	LS	1	\$410,068	\$410,068
	Contingency @20%	LS	1	\$1,209,701	\$1,209,701
				Event Total	\$7,300,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	1,217,250	\$0.00	\$0
	Dredging (Pay yardage)	CY	901,667	\$5.31	\$4,787,850
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$512,585	\$512,585
	S & A @ 8%	LS	1	\$410,068	\$410,068
	Contingency @20%	LS	1	\$1,209,701	\$1,209,701
					Event Total
17	Construction	LS	1	\$ 210,000	\$210,000
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	1,569,500	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,162,593	\$5.31	\$6,173,367
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$651,137	\$651,137
	S & A @ 8%	LS	1	\$520,909	\$520,909
	Contingency @20%	LS	1	\$1,536,683	\$1,536,683
					Event Total
				Disposal Site Total	\$50,800,000
				Cost/CY/capacity of site	\$5.73

Plan C River Mile 12 -16
Disposal Site - BU 6
 Total Capacity In CY - 2,191,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ 105,000	\$105,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$301,000	\$301,000
	E & D @10%	LS	1	\$10,500	\$10,500
	S & A @ 8%	LS	1	\$8,400	\$8,400
	Contingency @20%	LS	1	\$24,780	\$24,780
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 80,000	\$80,000
	Dredging (Gross yardage)	CY	1,217,201	\$0.00	\$0
	Dredging (Pay yardage)	CY	901,630	\$5.31	\$4,787,655
	Damp	LS	1	\$5	\$5
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$486,766	\$486,766
	S & A @ 8%	LS	1	\$389,413	\$389,413
	Contingency @20%	LS	1	\$1,148,768	\$1,148,768
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ 105,000	\$105,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$10,500	\$10,500
	S & A @ 8%	LS	1	\$8,400	\$8,400
	Contingency @20%	LS	1	\$24,780	\$24,780
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 80,000	\$80,000
	Dredging (Gross yardage)	CY	973,760	\$0.00	\$0
	Dredging (Pay yardage)	CY	721,304	\$5.31	\$3,830,124
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$391,012	\$391,012
	S & A @ 8%	LS	1	\$312,810	\$312,810
	Contingency @20%	LS	1	\$924,353	\$924,353
	Event Total				

Disposal Site Total \$13,029,267

Cost/CY/capacity of site \$5.95

Plan C River Mile 12 - 16
Disposal Site - BU 7
 Total Capacity In CY - 3,895,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ 910,000	\$910,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$91,000	\$91,000
	S & A @ 8%	LS	1	\$72,800	\$72,800
	Contingency @20%	LS	1	\$214,760	\$214,760

Event Total \$1,288,560

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 128,000	\$128,000
	Dredging (Gross yardage)	CY	1,460,639	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,081,955	\$5.31	\$5,745,181
	Damp	LS	1	\$5	\$5
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$587,319	\$587,319
	S & A @ 8%	LS	1	\$469,855	\$469,855
	Contingency @20%	LS	1	\$1,386,072	\$1,386,072

Event Total \$8,316,432

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ 105,000	\$105,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$520,000	\$520,000
	E & D @10%	LS	1	\$10,500	\$10,500
	S & A @ 8%	LS	1	\$8,400	\$8,400
	Contingency @20%	LS	1	\$24,780	\$24,780

Event Total \$668,680

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ 384,000	\$384,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	2,434,400	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,803,259	\$5.31	\$9,575,305
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$995,931	\$995,931
	S & A @ 8%	LS	1	\$796,744	\$796,744
	Contingency @20%	LS	1	\$2,350,396	\$2,350,396

Event Total \$14,102,376

Disposal Site Total \$24,376,048

Cost/CY/capacity of site \$6.26

River Mile 12 - 16
Disposal Site - D/E Upland MVN Plan 8_19_10
 Total Capacity In CY - 6,884,500

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	8,024,000	\$8,024,000
	Pipeline Installation	LS	1	\$0.00	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$5	\$5
	LERR	LS	1	\$2,000	\$2,000
	E & D @10%	LS	1	\$802,601	\$802,601
	S & A @ 8%	LS	1	\$642,080	\$642,080
	Contingency @15%	LS	1	\$1,515,310	\$1,515,310
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	1,217,250	\$0.00	\$0
	Dredging (Pay yardage)	CY	901,667	\$3.44	\$3,101,733
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$5	\$5
	E & D @10%	LS	1	\$310,174	\$310,174
	S & A @ 8%	LS	1	\$248,139	\$248,139
	Contingency @20%	LS	1	\$732,010	\$732,010
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$262,000	\$262,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$26,200	\$26,200
	S & A @ 8%	LS	1	\$20,960	\$20,960
	Contingency @20%	LS	1	\$61,832	\$61,832
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	2,434,500	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,803,333	\$3.44	\$6,203,466
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$620,347	\$620,347
	S & A @ 8%	LS	1	\$496,277	\$496,277
	Contingency @20%	LS	1	\$1,537,219	\$1,537,219
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
8	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$262,000	\$262,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$26,200	\$26,200
	S & A @ 8%	LS	1	\$20,960	\$20,960
	Contingency @20%	LS	1	\$61,832	\$61,832
	Event Total				\$400,000
9	Construction	LS	1	\$2,456,000	\$2,456,000
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$245,600	\$245,600
	S & A @ 8%	LS	1	\$196,480	\$196,480
	Contingency @20%	LS	1	\$579,616	\$579,616
	Event Total				\$3,500,000
10	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	2,434,500	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,803,333	\$3.44	\$6,203,467
	DAMP	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$620,347	\$620,347
	S & A @ 8%	LS	1	\$496,277	\$496,277
	Contingency @20%	LS	1	\$1,537,219	\$1,537,219
	Event Total				\$8,900,000
11	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$262,000	\$262,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$26,200	\$26,200
	S & A @ 8%	LS	1	\$20,960	\$20,960
	Contingency @20%	LS	1	\$61,832	\$61,832
	Event Total				\$400,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	798,250	\$0.00	\$0
	Dredging (Pay yardage)	CY	591,296	\$3.44	\$2,034,059
	DAMP	LS	1	\$131,000	\$131,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$216,506	\$216,506
	S & A @ 8%	LS	1	\$173,205	\$173,205
	Contingency @20%	LS	1	\$510,954	\$510,954
		Event Total			
13	Construction	LS	1	\$0	\$0
	Pipeline Installation	LS	1	\$0	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	DAMP	LS	1	\$262,000	\$262,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$26,200	\$26,200
	S & A @ 8%	LS	1	\$20,960	\$20,960
	Contingency @20%	LS	1	\$61,832	\$61,832
		Event Total			
	Disposal Site Total				\$41,400,000
	Cost/CY/capacity of site				\$6.01

River Mile 9.5 - 12
Disposal Site - BU18

Total Capacity In CY - 6,946,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$5,000	\$5,000
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @15%	LS	1	\$58,410	\$58,410
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	1,323,100	\$0.00	\$0
	Dredging (Pay yardage)	CY	980,074	\$5.31	\$5,204,193
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$552,619	\$552,619
	S & A @ 8%	LS	1	\$442,095	\$442,095
	Contingency @15%	LS	1	\$978,136	\$978,136
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
	Event Total				

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	992,326	\$0.00	\$0
	Dredging (Pay yardage)	CY	735,056	\$5.31	\$3,903,147
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$422,515	\$422,515
	S & A @ 8%	LS	1	\$338,012	\$338,012
	Contingency @20%	LS	1	\$994,600	\$994,600
	Event Total				\$5,980,274

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
9	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
	Event Total				\$467,280

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	661,550	\$0.00	\$0
	Dredging (Pay yardage)	CY	490,037	\$5.31	\$2,602,096
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$292,410	\$292,410
	S & A @ 8%	LS	1	\$233,928	\$233,928
	Contingency @20%	LS	1	\$690,087	\$690,087
	Event Total				\$4,140,521

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
12	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 330,000	\$330,000

Dredging (Gross yardage)	CY	0	\$0.00	\$0
Dredging (Pay yardage)	CY	0	\$5.31	\$0
Damp	LS	1	\$0	\$0
LERR	LS	1	\$0	\$0
E & D @10%	LS	1	\$33,000	\$33,000
S & A @ 8%	LS	1	\$26,400	\$26,400
Contingency @20%	LS	1	\$77,880	\$77,880
Event Total				\$467,280

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	1,323,100	\$0.00	\$0
	Dredging (Pay yardage)	CY	980,074	\$5.31	\$5,204,193
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$552,619	\$552,619
	S & A @ 8%	LS	1	\$442,095	\$442,095
	Contingency @20%	LS	1	\$1,304,182	\$1,304,182
Event Total					\$7,825,089

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
Event Total					\$467,280

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	1,323,100	\$0.00	\$0
	Dredging (Pay yardage)	CY	980,074	\$5.31	\$5,204,193
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$552,619	\$552,619

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	S & A @ 8%	LS	1	\$442,095	\$442,095
	Contingency @20%	LS	1	\$1,304,182	\$1,304,182
	Event Total				\$7,825,089
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
	Event Total				\$467,280
Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
19	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 322,000	\$322,000
	Dredging (Gross yardage)	CY	1,323,100	\$0.00	\$0
	Dredging (Pay yardage)	CY	980,074	\$5.31	\$5,204,193
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$552,619	\$552,619
	S & A @ 8%	LS	1	\$442,095	\$442,095
	Contingency @20%	LS	1	\$1,304,182	\$1,304,182
	Event Total				\$7,825,089
	Disposal Site Total				\$43,884,316
	Cost/CY/capacity of site				\$6.32

River Mile 9.5 - 12
Disposal Site - BU49
Total Capacity In CY - 2,315,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$5.31	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Shore Protection	LS	1	\$0	\$0
	LERR	LS	1	\$265,000	\$265,000
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @15%	LS	1	\$58,410	\$58,410
					Event Total
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 432,000	\$432,000
	Dredging (Gross yardage)	CY	1,323,100	\$0.00	\$0
	Dredging (Pay yardage)	CY	980,074	\$5.31	\$5,204,193
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$563,619	\$563,619
	S & A @ 8%	LS	1	\$450,895	\$450,895
	Contingency @15%	LS	1	\$997,606	\$997,606
					Event Total
6	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
					Event Total

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 432,000	\$432,000
	Dredging (Gross yardage)	CY	330,776	\$0.00	\$0
	Dredging (Pay yardage)	CY	245,019	\$5.31	\$1,301,051
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$173,305	\$173,305
	S & A @ 8%	LS	1	\$138,644	\$138,644
	Contingency @20%	LS	1	\$409,000	\$409,000
	Event Total				\$2,454,000
9	Construction	LS	1	\$ 330,000	\$330,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY		\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$33,000	\$33,000
	S & A @ 8%	LS	1	\$26,400	\$26,400
	Contingency @20%	LS	1	\$77,880	\$77,880
	Event Total				\$467,280
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 432,000	\$432,000
	Dredging (Gross yardage)	CY	661,550	\$0.00	\$0
	Dredging (Pay yardage)	CY	490,037	\$5.31	\$2,602,096
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$303,410	\$303,410
	S & A @ 8%	LS	1	\$242,728	\$242,728
	Contingency @20%	LS	1	\$715,091	\$715,091
	Event Total				\$4,295,325
	Disposal Site Total				\$16,045,009
	Cost/CY/capacity of site				\$6.93

River Mile 5 - 9.5

Disposal Site - BU 19

Total Capacity In CY - 1,551,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ 230,000	\$230,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1		\$0
	LERR	LS	1	\$135,000	\$135,000
	E & D @10%	LS	1	\$23,000	\$23,000
	S & A @ 8%	LS	1	\$18,400	\$18,400
	Contingency @20%	LS	1	\$54,280	\$54,280
				Event Total	\$460,680

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
7	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 252,000	\$252,000
	Dredging (Gross yardage)	CY	1,550,399	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,148,444	\$5.31	\$6,098,238
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$635,024	\$635,024
	S & A @ 8%	LS	1	\$508,019	\$508,019
	Contingency @20%	LS	1	\$1,498,085	\$1,498,085
				Event Total	\$8,991,365

Disposal Site Total **\$9,452,045**

Cost/CY/capacity of site **\$6.09**

River Mile 5 - 9.5

Disposal Site - BU 20

Total Capacity In CY - 775,000

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ 230,000	\$230,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$5,000	\$5,000
	E & D @10%	LS	1	\$23,000	\$23,000
	S & A @ 8%	LS	1	\$18,400	\$18,400
	Contingency @15%	LS	1	\$40,710	\$40,710
				Event Total	\$317,110

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ 455,000	\$455,000
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$5.31	\$3,049,119
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$350,412	\$350,412
	S & A @ 8%	LS	1	\$280,330	\$280,330
	Contingency @15%	LS	1	\$619,094	\$619,094
				Event Total	\$4,753,954
				Disposal Site Total	\$5,071,064
				Cost/CY/capacity of site	\$6.54

River Mile 5 - 9.5
Disposal Site - H

Total Capacity In CY - 1,374,400

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 719,000	\$719,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$2,000	\$2,000
	E & D @10%	LS	1	\$71,900	\$71,900
	S & A @ 8%	LS	1	\$57,520	\$57,520
	Contingency @15%	LS	1	\$127,263	\$127,263
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @15%	LS	1	\$349,632	\$349,632
	Event Total				

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$62,000	\$62,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$6,200	\$6,200
	S & A @ 8%	LS	1	\$4,960	\$4,960
	Contingency @15%	LS	1	\$10,974	\$10,974
	Event Total				

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$62,000	\$62,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$6,200	\$6,200
	S & A @ 8%	LS	1	\$4,960	\$4,960
	Contingency @15%	LS	1	\$10,974	\$10,974
	Event Total				\$84,134

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	465,120	\$0.00	\$0
	Dredging (Pay yardage)	CY	344,533	\$3.44	\$1,185,194
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$118,519	\$118,519
	S & A @ 8%	LS	1	\$94,815	\$94,815
	Contingency @20%	LS	1	\$280,891	\$280,891
	Event Total				\$1,679,419

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$62,000	\$62,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$6,200	\$6,200
	S & A @ 8%	LS	1	\$4,960	\$4,960
	Contingency @20%	LS	1	\$14,958	\$14,958
	Event Total				\$88,118

Disposal Site Total \$5,594,002

Cost/CY/capacity of site \$4.07

**River Mile 5 - 9.5
Disposal Site - M**

Total Capacity In CY - 5,059,200

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
3	Construction	LS	1	\$ 1,972,000	\$1,972,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$5.31	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$810,000	\$810,000
	E & D @10%	LS	1	\$197,200	\$197,200
	S & A @ 8%	LS	1	\$157,760	\$157,760
	Contingency @15%	LS	1	\$349,044	\$349,044
	Event Total				\$3,486,004

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
4	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @15%	LS	1	\$349,632	\$349,632
	Event Total				\$2,680,514

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
5	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$171,000	\$171,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$17,100	\$17,100
	S & A @ 8%	LS	1	\$13,680	\$13,680
	Contingency @20%	LS	1	\$40,356	\$40,356
	Event Total				\$242,136

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
6	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$171,000	\$171,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$17,100	\$17,100
	S & A @ 8%	LS	1	\$13,680	\$13,680
	Contingency @20%	LS	1	\$40,356	\$40,356
	Event Total				\$242,136

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @20%	LS	1	\$466,176	\$466,176
	Event Total				\$2,797,058

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$171,000	\$171,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$17,100	\$17,100
	S & A @ 8%	LS	1	\$13,680	\$13,680
	Contingency @20%	LS	1	\$40,356	\$40,356
	Event Total				\$242,136

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
13	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	1,085,280	\$0.00	\$0
	Dredging (Pay yardage)	CY	803,911	\$3.44	\$2,765,454
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$276,545	\$276,545
	S & A @ 8%	LS	1	\$221,236	\$221,236
	Contingency @20%	LS	1	\$652,647	\$652,647
	Event Total				\$3,915,883

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
14	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$171,000	\$171,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$17,100	\$17,100
	S & A @ 8%	LS	1	\$13,680	\$13,680
	Contingency @20%	LS	1	\$40,356	\$40,356
	Event Total				\$242,136

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
15	Construction	LS	1	\$ 351,000	\$351,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$35,100	\$35,100
	S & A @ 8%	LS	1	\$28,080	\$28,080
	Contingency @20%	LS	1	\$82,836	\$82,836
	Event Total				\$497,016

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
16	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	1,550,399	\$0.00	\$0
	Dredging (Pay yardage)	CY	1,148,444	\$3.44	\$3,950,647
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$395,065	\$395,065
	S & A @ 8%	LS	1	\$316,052	\$316,052
	Contingency @20%	LS	1	\$932,353	\$932,353
	Event Total				\$5,594,117

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
17	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$171,000	\$171,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$17,100	\$17,100
	S & A @ 8%	LS	1	\$13,680	\$13,680
	Contingency @20%	LS	1	\$40,356	\$40,356
	Event Total				\$242,136

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
19	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @20%	LS	1	\$466,176	\$466,176
	Event Total				\$2,797,058

Disposal Site Total **\$22,978,330**

Cost/CY/capacity of site **\$4.54**

River Mile 5 - 9.5
Disposal Site - N
 Total Capacity In CY - 2,826,400

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
0	Construction	LS	1	\$ 1,446,000	\$1,446,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$5.31	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Shore Protection	LS	1	\$0	\$0
	LERR	LS	1	\$772,000	\$772,000
	E & D @10%	LS	1	\$144,600	\$144,600
	S & A @ 8%	LS	1	\$115,680	\$115,680
	Contingency @15%	LS	1	\$255,942	\$255,942
	Event Total				\$2,734,222
1	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @15%	LS	1	\$353,583	\$353,583
	Event Total				\$2,684,465
2	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$96,000	\$96,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$9,600	\$9,600
	S & A @ 8%	LS	1	\$7,680	\$7,680
	Contingency @15%	LS	1	\$16,992	\$16,992
	Event Total				\$130,272
3	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$96,000	\$96,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$9,600	\$9,600
	S & A @ 8%	LS	1	\$7,680	\$7,680
	Contingency @15%	LS	1	\$16,992	\$16,992
	Event Total				\$130,272

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Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
10	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @20%	LS	1	\$466,176	\$466,176
Event Total					\$2,797,058

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
11	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$3.44	\$0
	Damp	LS	1	\$96,000	\$96,000
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$9,600	\$9,600
	S & A @ 8%	LS	1	\$7,680	\$7,680
	Contingency @20%	LS	1	\$22,656	\$22,656
Event Total					\$135,936

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
18	Construction	LS	1	\$ 310,000	\$310,000
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	0	\$0.00	\$0
	Dredging (Pay yardage)	CY	0	\$0.00	\$0
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$31,000	\$31,000
	S & A @ 8%	LS	1	\$24,800	\$24,800
	Contingency @20%	LS	1	\$73,160	\$73,160
Event Total					\$438,960

Event Year	Item Description	Quantity	Unit	Unit Price	Extended Price
19	Construction	LS	1	\$ -	\$0
	Pipeline Installation	LS	1	\$ -	\$0
	Dredging (Gross yardage)	CY	775,200	\$0.00	\$0
	Dredging (Pay yardage)	CY	574,222	\$3.44	\$1,975,324
	Damp	LS	1	\$0	\$0
	LERR	LS	1	\$0	\$0
	E & D @10%	LS	1	\$197,532	\$197,532
	S & A @ 8%	LS	1	\$158,026	\$158,026
	Contingency @20%	LS	1	\$466,176	\$466,176
Event Total					\$2,797,058

Disposal Site Total \$11,848,244

Cost/CY/capacity of site \$4.19



**US Army Corps
of Engineers**

New Orleans District

**Dredged Material Management Plan – Revised Plan B
Calcasieu River and Pass, Louisiana**

Cost Engineering Report - 2008 Dollars

September 2010



TETRA TECH

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
YEAR	PROJECT DESCRIPTION	COST* (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
YEAR 00	CALCASIEU DMMP	\$47,605	\$7,141	15%	\$54,746		\$47,605	\$7,141	\$54,746	OCT 2009	1.86%	\$48,490	\$7,274	\$55,764
YEAR 01	CALCASIEU DMMP	\$30,678	\$4,602	15%	\$35,280		\$30,678	\$4,602	\$35,280	OCT 2010	2.62%	\$31,482	\$4,722	\$36,204
YEAR 02	CALCASIEU DMMP	\$33,448	\$5,017	15%	\$38,465		\$33,448	\$5,017	\$38,465	OCT 2011	4.24%	\$34,866	\$5,230	\$40,096
YEAR 03	CALCASIEU DMMP	\$35,864	\$5,380	15%	\$41,244		\$35,864	\$5,380	\$41,244	OCT 2012	6.08%	\$38,045	\$5,707	\$43,751
YEAR 04	CALCASIEU DMMP	\$23,119	\$3,468	15%	\$26,587		\$23,119	\$3,468	\$26,587	OCT 2013	7.99%	\$24,966	\$3,745	\$28,711
YEAR 05	CALCASIEU DMMP	\$20,243	\$4,049	20%	\$24,292		\$20,243	\$4,049	\$24,292	OCT 2014	9.93%	\$22,253	\$4,451	\$26,704
YEAR 06	CALCASIEU DMMP	\$8,133	\$1,627	20%	\$9,760		\$8,133	\$1,627	\$9,760	OCT 2015	11.91%	\$9,102	\$1,820	\$10,922
YEAR 07	CALCASIEU DMMP	\$35,126	\$7,025	20%	\$42,151		\$35,126	\$7,025	\$42,151	OCT 2016	13.93%	\$40,019	\$8,004	\$48,023
YEAR 08	CALCASIEU DMMP	\$12,631	\$2,526	20%	\$15,157		\$12,631	\$2,526	\$15,157	OCT 2017	15.98%	\$14,649	\$2,930	\$17,579
YEAR 09	CALCASIEU DMMP	\$17,892	\$3,578	20%	\$21,470		\$17,892	\$3,578	\$21,470	OCT 2018	18.07%	\$21,125	\$4,225	\$25,350
YEAR 10	CALCASIEU DMMP	\$34,851	\$6,970	20%	\$41,821		\$34,851	\$6,970	\$41,821	OCT 2019	20.19%	\$41,887	\$8,377	\$50,265
YEAR 11	CALCASIEU DMMP	\$14,445	\$2,889	20%	\$17,334		\$14,445	\$2,889	\$17,334	OCT 2020	22.35%	\$17,673	\$3,535	\$21,208
YEAR 12	CALCASIEU DMMP	\$22,531	\$4,506	20%	\$27,037		\$22,531	\$4,506	\$27,037	OCT 2021	24.56%	\$28,065	\$5,613	\$33,678
YEAR 13	CALCASIEU DMMP	\$16,315	\$3,263	20%	\$19,578		\$16,315	\$3,263	\$19,578	OCT 2022	26.80%	\$20,687	\$4,137	\$24,825
YEAR 14	CALCASIEU DMMP	\$5,711	\$1,142	20%	\$6,853		\$5,711	\$1,142	\$6,853	OCT 2023	29.08%	\$7,372	\$1,474	\$8,846
YEAR 15	CALCASIEU DMMP	\$31,237	\$6,247	20%	\$37,484		\$31,237	\$6,247	\$37,484	OCT 2024	31.40%	\$41,045	\$8,209	\$49,255
YEAR 16	CALCASIEU DMMP	\$18,324	\$3,665	20%	\$21,989		\$18,324	\$3,665	\$21,989	OCT 2025	33.77%	\$24,512	\$4,902	\$29,415
YEAR 17	CALCASIEU DMMP	\$26,813	\$5,363	20%	\$32,176		\$26,813	\$5,363	\$32,176	OCT 2026	36.13%	\$36,501	\$7,300	\$43,801
YEAR 18	CALCASIEU DMMP	\$5,878	\$1,176	20%	\$7,054		\$5,878	\$1,176	\$7,054	OCT 2027	38.49%	\$8,140	\$1,628	\$9,769
YEAR 19	CALCASIEU DMMP	\$15,569	\$3,114	20%	\$18,683		\$15,569	\$3,114	\$18,683	OCT 2028	40.86%	\$21,930	\$4,386	\$26,317
TOTAL PROJECT COSTS =====>		\$456,413	\$82,747		\$539,160		\$456,413	\$82,747	\$539,160			\$532,811	\$97,670	\$630,481

Revised Plan B
 TOTAL COSTS =====> **630,481**

*INCLUDES FUNTIONAL COSTS ASSOCIATED WITH LANDS AND DAMAGES, PLANNING ENGINEERING & DESIGN AND CONSTRUCTION MANAGEMENT

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008						AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE				
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$22,634	\$3,395	15%	\$26,029		\$22,634	\$3,395	\$26,029	OCT 2009	1.86%	\$23,055	\$3,458	\$26,513
C-12-05	DRAINAGE AREA MANAGEMENT	\$128	\$19	15%	\$147		\$128	\$19	\$147	OCT 2009	1.86%	\$130	\$20	\$150
C-12-06	DIKE CONST, REHAB AND LIFT	\$13,738	\$2,061	15%	\$15,799		\$13,738	\$2,061	\$15,799	OCT 2009	1.86%	\$13,994	\$2,099	\$16,093
C-16-01	SHORELINE PROTECTION			15%						OCT 2009	1.86%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$36,500	\$5,475	15%	\$41,975		\$36,500	\$5,475	\$41,975	OCT 2009	1.86%	\$37,179	\$5,577	\$42,756
P-01	LANDS AND DAMAGES	\$4,535	\$680	15%	\$5,215		\$4,535	\$680	\$5,215	OCT 2009	1.86%	\$4,619	\$693	\$5,312
P-30	PLANNING, ENGINEERING & DESIGN	\$3,650	\$548	15%	\$4,198		\$3,650	\$548	\$4,198	OCT 2009	1.86%	\$3,718	\$558	\$4,276
P-31	CONSTRUCTION MANAGEMENT	\$2,920	\$438	15%	\$3,358		\$2,920	\$438	\$3,358	OCT 2009	1.86%	\$2,974	\$446	\$3,420
TOTAL PROJECT COSTS =====>		\$47,605	\$7,141	15%	\$54,746		\$47,605	\$7,141	\$54,746			48,490	\$7,274	\$55,764

YEAR 00
 TOTAL COSTS =====> 55,764

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008						AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE				
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$18,597	\$2,790	15%	\$21,387		\$18,597	\$2,790	\$21,387	OCT 2010	2.62%	\$19,084	\$2,863	\$21,947
C-12-05	DRAINAGE AREA MANAGEMENT	\$367	\$55	15%	\$422		\$367	\$55	\$422	OCT 2010	2.62%	\$377	\$56	\$433
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,346	\$202	15%	\$1,548		\$1,346	\$202	\$1,548	OCT 2010	2.62%	\$1,381	\$207	\$1,588
C-16-01	SHORELINE PROTECTION	\$2,556	\$383	15%	\$2,939		\$2,556	\$383	\$2,939	OCT 2010	2.62%	\$2,623	\$393	\$3,016
	TOTAL CONSTRUCTION COSTS ===>	\$22,866	\$3,430	15%	\$26,296		\$22,866	\$3,430	\$26,296	OCT 2010	2.62%	23,465	\$3,520	\$26,985
P-01	LANDS AND DAMAGES	\$3,692	\$554	15%	\$4,246		\$3,692	\$554	\$4,246	OCT 2010	2.62%	\$3,789	\$568	\$4,357
P-30	PLANNING, ENGINEERING & DESIGN	\$2,290	\$344	15%	\$2,634		\$2,290	\$344	\$2,634	OCT 2010	2.62%	\$2,350	\$352	\$2,703
P-31	CONSTRUCTION MANAGEMENT	\$1,830	\$275	15%	\$2,105		\$1,830	\$275	\$2,105	OCT 2010	2.62%	\$1,878	\$282	\$2,160
	TOTAL PROJECT COSTS =====>	\$30,678	\$4,602	15%	\$35,280		\$30,678	\$4,602	\$35,280			31,482	\$4,722	\$36,204

YEAR 01
 TOTAL COSTS =====> **36,204**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$22,634	\$3,395	15%	\$26,029		\$22,634	\$3,395	\$26,029	OCT 2011	4.24%	\$23,594	\$3,539	\$27,133
C-12-05	DRAINAGE AREA MANAGEMENT	\$831	\$125	15%	\$956		\$831	\$125	\$956	OCT 2011	4.24%	\$866	\$130	\$996
C-12-06	DIKE CONST, REHAB AND LIFT	\$3,215	\$482	15%	\$3,697		\$3,215	\$482	\$3,697	OCT 2011	4.24%	\$3,351	\$503	\$3,854
C-16-01	SHORELINE PROTECTION			15%						OCT 2011	4.24%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$26,680	\$4,002	15%	\$30,682		\$26,680	\$4,002	\$30,682	OCT 2011	4.24%	27,811	\$4,172	\$31,983
P-01	LANDS AND DAMAGES	\$1,958	\$294	15%	\$2,252		\$1,958	\$294	\$2,252	OCT 2011	4.24%	\$2,041	\$306	\$2,347
P-30	PLANNING, ENGINEERING & DESIGN	\$2,670	\$401	15%	\$3,071		\$2,670	\$401	\$3,071	OCT 2011	4.24%	\$2,783	\$417	\$3,201
P-31	CONSTRUCTION MANAGEMENT	\$2,140	\$321	15%	\$2,461		\$2,140	\$321	\$2,461	OCT 2011	4.24%	\$2,231	\$335	\$2,565
TOTAL PROJECT COSTS =====>		\$33,448	\$5,017	15%	\$38,465		\$33,448	\$5,017	\$38,465			34,866	\$5,230	\$40,096

YEAR 02
 TOTAL COSTS =====> 40,096

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$3,217	\$483	15%	\$3,700		\$3,217	\$483	\$3,700	OCT 2012	6.08%	\$3,413	\$512	\$3,925
C-12-05	DRAINAGE AREA MANAGEMENT	\$1,269	\$190	15%	\$1,459		\$1,269	\$190	\$1,459	OCT 2012	6.08%	\$1,346	\$202	\$1,548
C-12-06	DIKE CONST, REHAB AND LIFT	\$20,182	\$3,027	15%	\$23,209		\$20,182	\$3,027	\$23,209	OCT 2012	6.08%	\$21,409	\$3,211	\$24,620
C-16-01	SHORELINE PROTECTION	\$4,907	\$736	15%	\$5,643		\$4,907	\$736	\$5,643	OCT 2012	6.08%	\$5,205	\$781	\$5,986
TOTAL CONSTRUCTION COSTS ===>		\$29,575	\$4,436	15%	\$34,011		\$29,575	\$4,436	\$34,011	OCT 2012	6.08%	31,373	\$4,706	\$36,079
P-01	LANDS AND DAMAGES	\$959	\$144	15%	\$1,103		\$959	\$144	\$1,103	OCT 2012	6.08%	\$1,017	\$153	\$1,170
P-30	PLANNING, ENGINEERING & DESIGN	\$2,960	\$444	15%	\$3,404		\$2,960	\$444	\$3,404	OCT 2012	6.08%	\$3,140	\$471	\$3,611
P-31	CONSTRUCTION MANAGEMENT	\$2,370	\$356	15%	\$2,726		\$2,370	\$356	\$2,726	OCT 2012	6.08%	\$2,514	\$377	\$2,891
TOTAL PROJECT COSTS =====>		\$35,864	\$5,380	15%	\$41,244		\$35,864	\$5,380	\$41,244			38,045	\$5,707	\$43,751

YEAR 03
 TOTAL COSTS =====> 43,751

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$18,958	\$2,844	15%	\$21,802		\$18,958	\$2,844	\$21,802	OCT 2013	7.99%	\$20,473	\$3,071	\$23,544
C-12-05	DRAINAGE AREA MANAGEMENT	\$406	\$61	15%	\$467		\$406	\$61	\$467	OCT 2013	7.99%	\$438	\$66	\$504
C-12-06	DIKE CONST, REHAB AND LIFT			15%						OCT 2013	7.99%			\$0
C-16-01	SHORELINE PROTECTION			15%						OCT 2013	7.99%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$19,364	\$2,905	15%	\$22,269		\$19,364	\$2,905	\$22,269	OCT 2013	7.99%	20,911	\$3,137	\$24,048
P-01	LANDS AND DAMAGES	\$265	\$40	15%	\$305		\$265	\$40	\$305	OCT 2013	7.99%	\$286	\$43	\$329
P-30	PLANNING, ENGINEERING & DESIGN	\$1,940	\$291	15%	\$2,231		\$1,940	\$291	\$2,231	OCT 2013	7.99%	\$2,095	\$314	\$2,409
P-31	CONSTRUCTION MANAGEMENT	\$1,550	\$233	15%	\$1,783		\$1,550	\$233	\$1,783	OCT 2013	7.99%	\$1,674	\$251	\$1,925
TOTAL PROJECT COSTS =====>		\$23,119	\$3,468	15%	\$26,587		\$23,119	\$3,468	\$26,587			24,966	\$3,745	\$28,711

YEAR 04
 TOTAL COSTS =====>

28,711

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$15,975	\$3,195	20%	\$19,170		\$15,975	\$3,195	\$19,170	OCT 2014	9.93%	\$17,561	\$3,512	\$21,074
C-12-05	DRAINAGE AREA MANAGEMENT	\$768	\$154	20%	\$922		\$768	\$154	\$922	OCT 2014	9.93%	\$844	\$169	\$1,013
C-12-06	DIKE CONST, REHAB AND LIFT	\$400	\$80	20%	\$480		\$400	\$80	\$480	OCT 2014	9.93%	\$440	\$88	\$528
C-16-01	SHORELINE PROTECTION			20%						OCT 2014	9.93%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$17,143	\$3,429	20%	\$20,572		\$17,143	\$3,429	\$20,572	OCT 2014	9.93%	18,845	\$3,769	\$22,614
P-01	LANDS AND DAMAGES			20%						OCT 2014	9.93%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,720	\$344	20%	\$2,064		\$1,720	\$344	\$2,064	OCT 2014	9.93%	\$1,891	\$378	\$2,269
P-31	CONSTRUCTION MANAGEMENT	\$1,380	\$276	20%	\$1,656		\$1,380	\$276	\$1,656	OCT 2014	9.93%	\$1,517	\$303	\$1,821
TOTAL PROJECT COSTS =====>		\$20,243	\$4,049	20%	\$24,292		\$20,243	\$4,049	\$24,292			22,253	\$4,451	\$26,704

YEAR 05
 TOTAL COSTS =====> **26,704**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$4,689	\$938	20%	\$5,627		\$4,689	\$938	\$5,627	OCT 2015	11.91%	\$5,247	\$1,049	\$6,297
C-12-05	DRAINAGE AREA MANAGEMENT	\$1,136	\$227	20%	\$1,363		\$1,136	\$227	\$1,363	OCT 2015	11.91%	\$1,271	\$254	\$1,526
C-12-06	DIKE CONST, REHAB AND LIFT	\$943	\$189	20%	\$1,132		\$943	\$189	\$1,132	OCT 2015	11.91%	\$1,055	\$211	\$1,266
C-16-01	SHORELINE PROTECTION			20%						OCT 2015	11.91%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$6,768	\$1,354	20%	\$8,122		\$6,768	\$1,354	\$8,122	OCT 2015	11.91%	7,574	\$1,515	\$9,089
P-01	LANDS AND DAMAGES	\$135	\$27	20%	\$162		\$135	\$27	\$162	OCT 2015	11.91%	\$151	\$30	\$181
P-30	PLANNING, ENGINEERING & DESIGN	\$680	\$136	20%	\$816		\$680	\$136	\$816	OCT 2015	11.91%	\$761	\$152	\$913
P-31	CONSTRUCTION MANAGEMENT	\$550	\$110	20%	\$660		\$550	\$110	\$660	OCT 2015	11.91%	\$616	\$123	\$739
TOTAL PROJECT COSTS =====>		\$8,133	\$1,627	20%	\$9,760		\$8,133	\$1,627	\$9,760			9,102	\$1,820	\$10,922

YEAR 06
TOTAL COSTS =====> 10,922

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$28,669	\$5,734	20%	\$34,403		\$28,669	\$5,734	\$34,403	OCT 2016	13.93%	\$32,663	\$6,533	\$39,195
C-12-05	DRAINAGE AREA MANAGEMENT	\$315	\$63	20%	\$378		\$315	\$63	\$378	OCT 2016	13.93%	\$359	\$72	\$431
C-12-06	DIKE CONST, REHAB AND LIFT	\$772	\$154	20%	\$926		\$772	\$154	\$926	OCT 2016	13.93%	\$880	\$176	\$1,056
C-16-01	SHORELINE PROTECTION			20%						OCT 2016	13.93%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$29,756	\$5,951	20%	\$35,707		\$29,756	\$5,951	\$35,707	OCT 2016	13.93%	\$33,901	\$6,780	\$40,681
P-01	LANDS AND DAMAGES			20%						OCT 2016	13.93%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$2,980	\$596	20%	\$3,576		\$2,980	\$596	\$3,576	OCT 2016	13.93%	\$3,395	\$679	\$4,074
P-31	CONSTRUCTION MANAGEMENT	\$2,390	\$478	20%	\$2,868		\$2,390	\$478	\$2,868	OCT 2016	13.93%	\$2,723	\$545	\$3,268
TOTAL PROJECT COSTS =====>		\$35,126	\$7,025	20%	\$42,151		\$35,126	\$7,025	\$42,151			40,019	\$8,004	\$48,023

YEAR 07

TOTAL COSTS =====>

48,023

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$3,739	\$748	20%	\$4,487		\$3,739	\$748	\$4,487	OCT 2017	15.98%	\$4,336	\$867	\$5,204
C-12-05	DRAINAGE AREA MANAGEMENT	\$496	\$99	20%	\$595		\$496	\$99	\$595	OCT 2017	15.98%	\$575	\$115	\$690
C-12-06	DIKE CONST, REHAB AND LIFT	\$6,322	\$1,264	20%	\$7,586		\$6,322	\$1,264	\$7,586	OCT 2017	15.98%	\$7,332	\$1,466	\$8,799
C-16-01	SHORELINE PROTECTION			20%						OCT 2017	15.98%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$10,557	\$2,111	20%	\$12,668		\$10,557	\$2,111	\$12,668	OCT 2017	15.98%	12,244	\$2,449	\$14,693
P-01	LANDS AND DAMAGES	\$164	\$33	20%	\$197		\$164	\$33	\$197	OCT 2017	15.98%	\$190	\$38	\$228
P-30	PLANNING, ENGINEERING & DESIGN	\$1,060	\$212	20%	\$1,272		\$1,060	\$212	\$1,272	OCT 2017	15.98%	\$1,229	\$246	\$1,475
P-31	CONSTRUCTION MANAGEMENT	\$850	\$170	20%	\$1,020		\$850	\$170	\$1,020	OCT 2017	15.98%	\$986	\$197	\$1,183
TOTAL PROJECT COSTS =====>		\$12,631	\$2,526	20%	\$15,157		\$12,631	\$2,526	\$15,157			14,649	\$2,930	\$17,579

YEAR 08
 TOTAL COSTS =====> 17,579

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,936	\$1,387	20%	\$8,323		\$6,936	\$1,387	\$8,323	OCT 2018	18.07%	\$8,189	\$1,638	\$9,827
C-12-05	DRAINAGE AREA MANAGEMENT	\$267	\$53	20%	\$320		\$267	\$53	\$320	OCT 2018	18.07%	\$315	\$63	\$378
C-12-06	DIKE CONST, REHAB AND LIFT	\$7,949	\$1,590	20%	\$9,539		\$7,949	\$1,590	\$9,539	OCT 2018	18.07%	\$9,385	\$1,877	\$11,263
C-16-01	SHORELINE PROTECTION			20%						OCT 2018	18.07%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$15,152	\$3,030	20%	\$18,182		\$15,152	\$3,030	\$18,182	OCT 2018	18.07%	17,890	\$3,578	\$21,468
P-01	LANDS AND DAMAGES			20%						OCT 2018	18.07%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,520	\$304	20%	\$1,824		\$1,520	\$304	\$1,824	OCT 2018	18.07%	\$1,795	\$359	\$2,154
P-31	CONSTRUCTION MANAGEMENT	\$1,220	\$244	20%	\$1,464		\$1,220	\$244	\$1,464	OCT 2018	18.07%	\$1,440	\$288	\$1,729
TOTAL PROJECT COSTS =====>		\$17,892	\$3,578	20%	\$21,470		\$17,892	\$3,578	\$21,470			21,125	\$4,225	\$25,350

YEAR 09
 TOTAL COSTS =====> 25,350

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$28,381	\$5,676	20%	\$34,057		\$28,381	\$5,676	\$34,057	OCT 2019	20.19%	\$34,111	\$6,822	\$40,934
C-12-05	DRAINAGE AREA MANAGEMENT	\$596	\$119	20%	\$715		\$596	\$119	\$715	OCT 2019	20.19%	\$716	\$143	\$860
C-12-06	DIKE CONST, REHAB AND LIFT	\$544	\$109	20%	\$653		\$544	\$109	\$653	OCT 2019	20.19%	\$654	\$131	\$785
C-16-01	SHORELINE PROTECTION			20%						OCT 2019	20.19%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$29,521	\$5,904	20%	\$35,425		\$29,521	\$5,904	\$35,425	OCT 2019	20.19%	35,481	\$7,096	\$42,578
P-01	LANDS AND DAMAGES			20%						OCT 2019	20.19%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$2,960	\$592	20%	\$3,552		\$2,960	\$592	\$3,552	OCT 2019	20.19%	\$3,558	\$712	\$4,269
P-31	CONSTRUCTION MANAGEMENT	\$2,370	\$474	20%	\$2,844		\$2,370	\$474	\$2,844	OCT 2019	20.19%	\$2,849	\$570	\$3,418
TOTAL PROJECT COSTS =====>		\$34,851	\$6,970	20%	\$41,821		\$34,851	\$6,970	\$41,821			41,887	\$8,377	\$50,265

YEAR 10
 TOTAL COSTS =====> 50,265

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,865	\$1,373	20%	\$8,238		\$6,865	\$1,373	\$8,238	OCT 2020	22.35%	\$8,399	\$1,680	\$10,079
C-12-05	DRAINAGE AREA MANAGEMENT	\$1,036	\$207	20%	\$1,243		\$1,036	\$207	\$1,243	OCT 2020	22.35%	\$1,268	\$254	\$1,521
C-12-06	DIKE CONST, REHAB AND LIFT	\$2,935	\$587	20%	\$3,522		\$2,935	\$587	\$3,522	OCT 2020	22.35%	\$3,591	\$718	\$4,309
C-16-01	SHORELINE PROTECTION	\$1,377	\$275	20%	\$1,652		\$1,377	\$275	\$1,652	OCT 2020	22.35%	\$1,685	\$337	\$2,022
TOTAL CONSTRUCTION COSTS ==>		\$12,213	\$2,443	20%	\$14,656		\$12,213	\$2,443	\$14,656	OCT 2020	22.35%	14,943	\$2,989	\$17,931
P-01	LANDS AND DAMAGES	\$22	\$4	20%	\$26		\$22	\$4	\$26	OCT 2020	22.35%	\$27	\$5	\$33
P-30	PLANNING, ENGINEERING & DESIGN	\$1,230	\$246	20%	\$1,476		\$1,230	\$246	\$1,476	OCT 2020	22.35%	\$1,505	\$301	\$1,806
P-31	CONSTRUCTION MANAGEMENT	\$980	\$196	20%	\$1,176		\$980	\$196	\$1,176	OCT 2020	22.35%	\$1,199	\$240	\$1,439
TOTAL PROJECT COSTS =====>		\$14,445	\$2,889	20%	\$17,334		\$14,445	\$2,889	\$17,334			17,673	\$3,535	\$21,208

YEAR 11
 TOTAL COSTS =====> 21,208

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$18,049	\$3,610	20%	\$21,659		\$18,049	\$3,610	\$21,659	OCT 2021	24.56%	\$22,482	\$4,496	\$26,978
C-12-05	DRAINAGE AREA MANAGEMENT	\$397	\$79	20%	\$476		\$397	\$79	\$476	OCT 2021	24.56%	\$495	\$99	\$594
C-12-06	DIKE CONST, REHAB AND LIFT	\$640	\$128	20%	\$768		\$640	\$128	\$768	OCT 2021	24.56%	\$797	\$159	\$957
C-16-01	SHORELINE PROTECTION			20%						OCT 2021	24.56%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$19,086	\$3,817	20%	\$22,903		\$19,086	\$3,817	\$22,903	OCT 2021	24.56%	23,774	\$4,755	\$28,528
P-01	LANDS AND DAMAGES	\$5	\$1	20%	\$6		\$5	\$1	\$6	OCT 2021	24.56%	\$6	\$1	\$8
P-30	PLANNING, ENGINEERING & DESIGN	\$1,910	\$382	20%	\$2,292		\$1,910	\$382	\$2,292	OCT 2021	24.56%	\$2,379	\$476	\$2,855
P-31	CONSTRUCTION MANAGEMENT	\$1,530	\$306	20%	\$1,836		\$1,530	\$306	\$1,836	OCT 2021	24.56%	\$1,906	\$381	\$2,287
TOTAL PROJECT COSTS =====>		\$22,531	\$4,506	20%	\$27,037		\$22,531	\$4,506	\$27,037			28,065	\$5,613	\$33,678

YEAR 12
 TOTAL COSTS =====> **33,678**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$12,928	\$2,586	20%	\$15,514		\$12,928	\$2,586	\$15,514	OCT 2022	26.80%	\$16,393	\$3,279	\$19,672
C-12-05	DRAINAGE AREA MANAGEMENT	\$887	\$177	20%	\$1,064		\$887	\$177	\$1,064	OCT 2022	26.80%	\$1,125	\$225	\$1,350
C-12-06	DIKE CONST, REHAB AND LIFT			20%						OCT 2022	26.80%			\$0
C-16-01	SHORELINE PROTECTION			20%						OCT 2022	26.80%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$13,815	\$2,763	20%	\$16,578		\$13,815	\$2,763	\$16,578	OCT 2022	26.80%	17,517	\$3,503	\$21,021
P-01	LANDS AND DAMAGES			20%						OCT 2022	26.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,390	\$278	20%	\$1,668		\$1,390	\$278	\$1,668	OCT 2022	26.80%	\$1,763	\$353	\$2,115
P-31	CONSTRUCTION MANAGEMENT	\$1,110	\$222	20%	\$1,332		\$1,110	\$222	\$1,332	OCT 2022	26.80%	\$1,407	\$281	\$1,689
TOTAL PROJECT COSTS =====>		\$16,315	\$3,263	20%	\$19,578		\$16,315	\$3,263	\$19,578			20,687	\$4,137	\$24,825

YEAR 13
TOTAL COSTS =====> 24,825

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$3,739	\$748	20%	\$4,487		\$3,739	\$748	\$4,487	OCT 2023	29.08%	\$4,826	\$965	\$5,792
C-12-05	DRAINAGE AREA MANAGEMENT	\$481	\$96	20%	\$577		\$481	\$96	\$577	OCT 2023	29.08%	\$621	\$124	\$745
C-12-06	DIKE CONST, REHAB AND LIFT	\$611	\$122	20%	\$733		\$611	\$122	\$733	OCT 2023	29.08%	\$789	\$158	\$947
C-16-01	SHORELINE PROTECTION			20%						OCT 2023	29.08%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$4,831	\$966	20%	\$5,797		\$4,831	\$966	\$5,797	OCT 2023	29.08%	6,236	\$1,247	\$7,483
P-01	LANDS AND DAMAGES			20%						OCT 2023	29.08%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$490	\$98	20%	\$588		\$490	\$98	\$588	OCT 2023	29.08%	\$632	\$126	\$759
P-31	CONSTRUCTION MANAGEMENT	\$390	\$78	20%	\$468		\$390	\$78	\$468	OCT 2023	29.08%	\$503	\$101	\$604
TOTAL PROJECT COSTS =====>		\$5,711	\$1,142	20%	\$6,853		\$5,711	\$1,142	\$6,853			7,372	\$1,474	\$8,846

YEAR 14
 TOTAL COSTS =====> **8,846**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008						AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE				
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$24,243	\$4,849	20%	\$29,092		\$24,243	\$4,849	\$29,092	OCT 2024	31.40%	\$31,855	\$6,371	\$38,227
C-12-05	DRAINAGE AREA MANAGEMENT	\$260	\$52	20%	\$312		\$260	\$52	\$312	OCT 2024	31.40%	\$342	\$68	\$410
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,959	\$392	20%	\$2,351		\$1,959	\$392	\$2,351	OCT 2024	31.40%	\$2,574	\$515	\$3,089
C-16-01	SHORELINE PROTECTION			20%						OCT 2024	31.40%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$26,462	\$5,292	20%	\$31,754		\$26,462	\$5,292	\$31,754	OCT 2024	31.40%	\$34,771	\$6,954	\$41,726
P-01	LANDS AND DAMAGES	\$5	\$1	20%	\$6		\$5	\$1	\$6	OCT 2024	31.40%	\$7	\$1	\$8
P-30	PLANNING, ENGINEERING & DESIGN	\$2,650	\$530	20%	\$3,180		\$2,650	\$530	\$3,180	OCT 2024	31.40%	\$3,482	\$696	\$4,179
P-31	CONSTRUCTION MANAGEMENT	\$2,120	\$424	20%	\$2,544		\$2,120	\$424	\$2,544	OCT 2024	31.40%	\$2,786	\$557	\$3,343
TOTAL PROJECT COSTS =====>		\$31,237	\$6,247	20%	\$37,484		\$31,237	\$6,247	\$37,484			\$41,045	\$8,209	\$49,255

YEAR 15
 TOTAL COSTS =====> 49,255

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$14,400	\$2,880	20%	\$17,280		\$14,400	\$2,880	\$17,280	OCT 2025	33.77%	\$19,263	\$3,853	\$23,116
C-12-05	DRAINAGE AREA MANAGEMENT	\$714	\$143	20%	\$857		\$714	\$143	\$857	OCT 2025	33.77%	\$955	\$191	\$1,146
C-12-06	DIKE CONST, REHAB AND LIFT	\$400	\$80	20%	\$480		\$400	\$80	\$480	OCT 2025	33.77%	\$535	\$107	\$642
C-16-01	SHORELINE PROTECTION			20%						OCT 2025	33.77%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$15,514	\$3,103	20%	\$18,617		\$15,514	\$3,103	\$18,617	OCT 2025	33.77%	20,753	\$4,151	\$24,904
P-01	LANDS AND DAMAGES			20%						OCT 2025	33.77%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,560	\$312	20%	\$1,872		\$1,560	\$312	\$1,872	OCT 2025	33.77%	\$2,087	\$417	\$2,505
P-31	CONSTRUCTION MANAGEMENT	\$1,250	\$250	20%	\$1,500		\$1,250	\$250	\$1,500	OCT 2025	33.77%	\$1,672	\$334	\$2,007
TOTAL PROJECT COSTS =====>		\$18,324	\$3,665	20%	\$21,989		\$18,324	\$3,665	\$21,989			24,512	\$4,902	\$29,414

YEAR 16
 TOTAL COSTS =====> **29,414**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$21,368	\$4,274	20%	\$25,642		\$21,368	\$4,274	\$25,642	OCT 2026	36.13%	\$29,088	\$5,818	\$34,906
C-12-05	DRAINAGE AREA MANAGEMENT	\$525	\$105	20%	\$630		\$525	\$105	\$630	OCT 2026	36.13%	\$715	\$143	\$858
C-12-06	DIKE CONST, REHAB AND LIFT	\$815	\$163	20%	\$978		\$815	\$163	\$978	OCT 2026	36.13%	\$1,109	\$222	\$1,332
C-16-01	SHORELINE PROTECTION			20%						OCT 2026	36.13%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$22,708	\$4,542	20%	\$27,250		\$22,708	\$4,542	\$27,250	OCT 2026	36.13%	\$30,912	\$6,182	\$37,095
P-01	LANDS AND DAMAGES	\$5	\$1	20%	\$6		\$5	\$1	\$6	OCT 2026	36.13%	\$7	\$1	\$9
P-30	PLANNING, ENGINEERING & DESIGN	\$2,280	\$456	20%	\$2,736		\$2,280	\$456	\$2,736	OCT 2026	36.13%	\$3,104	\$621	\$3,725
P-31	CONSTRUCTION MANAGEMENT	\$1,820	\$364	20%	\$2,184		\$1,820	\$364	\$2,184	OCT 2026	36.13%	\$2,478	\$496	\$2,973
TOTAL PROJECT COSTS =====>		\$26,813	\$5,363	20%	\$32,176		\$26,813	\$5,363	\$32,176			\$36,501	\$7,300	\$43,801

YEAR 17
TOTAL COSTS =====> **43,801**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$3,739	\$748	20%	\$4,487		\$3,739	\$748	\$4,487	OCT 2027	38.49%	\$5,178	\$1,036	\$6,214
C-12-05	DRAINAGE AREA MANAGEMENT	\$444	\$89	20%	\$533		\$444	\$89	\$533	OCT 2027	38.49%	\$615	\$123	\$738
C-12-06	DIKE CONST, REHAB AND LIFT	\$795	\$159	20%	\$954		\$795	\$159	\$954	OCT 2027	38.49%	\$1,101	\$220	\$1,322
C-16-01	SHORELINE PROTECTION			20%						OCT 2027	38.49%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$4,978	\$996	20%	\$5,974		\$4,978	\$996	\$5,974	OCT 2027	38.49%	6,894	\$1,379	\$8,273
P-01	LANDS AND DAMAGES			20%						OCT 2027	38.49%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$500	\$100	20%	\$600		\$500	\$100	\$600	OCT 2027	38.49%	\$692	\$138	\$831
P-31	CONSTRUCTION MANAGEMENT	\$400	\$80	20%	\$480		\$400	\$80	\$480	OCT 2027	38.49%	\$554	\$111	\$665
TOTAL PROJECT COSTS =====>		\$5,878	\$1,176	20%	\$7,054		\$5,878	\$1,176	\$7,054			8,140	\$1,628	\$9,769

YEAR 18
 TOTAL COSTS =====>

9,769

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 25 SEP 2010 EFFECTIVE PRICING LEVEL: JUL 2008					AUTHORIZ./BUDGET YEAR: 2009 EFFECT. PRICING LEVEL: 1 OCT 08				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$12,929	\$2,586	20%	\$15,515		\$12,929	\$2,586	\$15,515	OCT 2028	40.86%	\$18,212	\$3,642	\$21,855
C-12-05	DRAINAGE AREA MANAGEMENT	\$260	\$52	20%	\$312		\$260	\$52	\$312	OCT 2028	40.86%	\$366	\$73	\$440
C-12-06	DIKE CONST, REHAB AND LIFT			20%						OCT 2028	40.86%			\$0
C-16-01	SHORELINE PROTECTION			20%						OCT 2028	40.86%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$13,189	\$2,638	20%	\$15,827		\$13,189	\$2,638	\$15,827	OCT 2028	40.86%	18,578	\$3,716	\$22,294
P-01	LANDS AND DAMAGES			20%						OCT 2028	40.86%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,320	\$264	20%	\$1,584		\$1,320	\$264	\$1,584	OCT 2028	40.86%	\$1,859	\$372	\$2,232
P-31	CONSTRUCTION MANAGEMENT	\$1,060	\$212	20%	\$1,272		\$1,060	\$212	\$1,272	OCT 2028	40.86%	\$1,493	\$299	\$1,792
TOTAL PROJECT COSTS =====>		\$15,569	\$3,114	20%	\$18,683		\$15,569	\$3,114	\$18,683			21,930	\$4,386	\$26,317

YEAR 19
 TOTAL COSTS =====> **26,317**

**Dredged Material Management Plan (DMMP)
Calcasieu River and Pass, Louisiana
Cost Narrative**

1. Project Description

- A. General: The Calcasieu River and Pass, Louisiana, project spans 36 miles from Lake Charles, Louisiana, to the Gulf of Mexico, and 32 miles offshore. The Calcasieu Ship Channel handles about 50 million tons of cargo every year. The existing dredged material disposal capacity is not adequate for maintaining the channel over the long term. Existing disposal sites are at or near capacity. Other disposal sites have been lost to commercial development. The DMMP identified areas for the placement of dredged material for the 20-year life of the project.
- B. Purpose: The purpose of the DMMP is to develop a plan for the placement of material dredged from the maintenance of the Calcasieu Ship Channel, and anticipated improvements for the next 20 years.
- C. Design Features: To prepare the disposal areas to receive the dredged material, site rehabilitation, dike raising, dike construction, shore protection, and site management will occur. The various disposal area placement sites are shown in the project’s site plan which is included in Appendix A.

2. Basis of Estimate

- A. Basis of Design:
 - “*Calcasieu River and Pass, Louisiana, Dredged Material Management Plan, Appendix D – Cost Estimates,*” dated February 2008.
 - “*Calcasieu River and Pass, Louisiana, Dredged Material Management Plan, Supplemental Environmental Impact Statement, Volume I,*” dated May 2008.
- B. Basis of Quantities: The estimate is based on the overall quantities for Revised Plan B provided by the designer. The overall quantities are presented in Appendix B.

The quantity estimates include loss factors as listed below:

Dredge Material Pay Volume Reduction	35%
Dike Construction Shrinkage	15% to 40%

3. Design, and Construction Schedule

Sign PCA	February 2009.
Initiate Planning, Engineering, and Design	February 2009.
Advertise	August 2009.
Initiate Construction	October 2009.
Complete Construction	October 2029.

The estimate is based on construction and operation and maintenance occurring over a 20-year period. The tentative project schedule and implementation schedule are presented in Appendix C.

A. Overtime:

- Typical construction, crew (1 shift) working 12hr/day, and 7 day weeks.
- Typical dredge construction, crew (2 shifts) working 12hr/shift/day, and 7 day weeks.

B. Construction Windows: Continuous construction activity is anticipated.

4. Contracting Plan

The dredging portion of the project will likely be contracted to one prime construction contractor. The dike rehabilitation and lifting will likely be assigned to a second prime construction contractor. No subcontractors are anticipated. For estimating purposes, one prime construction contractor was used for the entire project to reflect prime contractor mark-ups only to the costs.

5. Project Construction

- A. Borrow Areas: The project is self sufficient in terms of borrow material, except for the rock shore protection.
- B. Construction Methodology: The construction activities proposed at the various placement sites include site rehabilitation, and initial dike raising (RLIFT), active dredging, and placement (PUMP), disposal area management (DAMP), secondary dike raising (LIFT), new dike construction (CONST), and shore protection (SP).

RLIFT includes rehabilitating, and raising existing dikes and installing weirs at confined disposal facilities (CDF). The total width of the dike will be raised during RLIFT. Dikes will be raised by side-casting material from construction activities including perimeter, and interior ditching to obtain dike lifting material. To create the perimeter, and interior drainage ditches two passes will be made around the exterior by a marshbuggie backhoe, and one around the interior by a rotary ditcher. At some CDFs the degrading of dikes will occur.

After RLIFT has occurred, PUMP, and DAMP will occur. DAMP construction activities include perimeter, and interior ditching to obtain future dike lifting material. To create the perimeter, and interior drainage ditches two passes will be made around the exterior by a marshbuggie backhoe, and one around the interior by a rotary ditcher.

PUMP includes dredging and pumping the material from the river to the placement sites. Dredging will be performed by a 27-inch discharge hydraulic cutter head dredge operating alone or utilizing 1 or 2 booster pumps depending on the pipeline lengths required for placement.

LIFT will not include any ditching as fill material will have been previously made available during DAMP. LIFT is the secondary lifting of the dikes. After LIFT has occurred, PUMP, and DAMP will typically occur again.

At locations along the river where no dikes exist, typically beneficial use (BU) sites, new dikes will be constructed. This process is referred to as CONST. These dikes will be 5 feet high constructed using adjacent borrow material with a marshbuggie backhoe an 8-cubic yard (CY) bucket dredge if in marsh conditions .

There are two types of SP that will be used: traditional SP will have an 8-foot top elevation, a -2-foot bottom elevation, 3:1 side slopes, and 0.27-tons of rock/square foot (SF)/linear foot (LF). Rock dike SP will have a 6-foot top elevation, a -3-foot bottom elevation, 2.5:1 side slopes, and 0.27-tons of rock/SF/LF.

The site specific construction activities that will occur along river miles 5 to 36 are listed below:

- 1) River Reach (Reach) 34-36: Reach 34-36's dredged material will be disposed of at Placement Sites (Sites) 1, and 2. Sites 1 and 2 both have an existing perimeter dike with lengths of 6,300-linear feet (LF), and 5,400-LF, and interior areas of 50-acres, and 44-acres, respectively. The construction activities that will occur at these sites are given below:
 - RLIFT: Site 1, and 2's dikes will be rehabilitated, and raised 5-feet.
 - PUMP: Three PUMP events will occur at Sites 1 and 2 each over the 20-year construction period. A total volume of 1,359,020-CY will be dredged from Reach 34-36, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter, and interior ditches will be constructed at both sites over their entire areas.
 - CONST: None.
 - LIFT: The dikes at Sites 1, and 2 will be raised another 5-feet after RLIFT has occurred.
 - SP: None.

- 2) Reach 30-34: Reach 30-34's dredged material will be disposed of at Sites 3, and 7. Both sites have an existing perimeter dikes with lengths of 11,000-LF, and 13,000-LF, and interior areas of 113-acres, and 129-acres, respectively. 6,500-feet of Site 7's dike will be rehabilitated, and raised in conjunction with Reach 30-34, and the remaining 6,500-LF will be rehabilitated, and raised in conjunction with Reach 26-30. Costs for Site 7 are split between the two reaches. Detailed construction activities are given below:
 - RLIFT: Site 3 and 7's dikes will be rehabilitated, and raised 4-feet.

- PUMP: Three PUMP events will occur at Site 3, and two will occur at Site 7 over the 20-year construction period. A total volume of 2,690,210-CY will be dredged from Reach 30-34, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter, and interior ditches will be constructed at both sites over their entire areas. DAMP will be applied at Site 7 initially in preparation for rehabilitation, and dike raising due to wet existing conditions.
 - CONST: None.
 - LIFT: Sites 3 and 7's dikes will be raised another 6-feet, and 4-feet, respectively, after RLIFT has occurred.
 - SP: None.
- 3) Reach 26-30: Reach 26-30's dredged material will be disposed of at Sites 7, 8, and 9. Sites 8, and 9 have exterior dikes with lengths of 14,400-LF, and 12,500-LF, respectively. Sites 7, 8, and 9 have areas of 129-acres, 192-acres, and 170-acres, respectively. Detailed construction activities are given below:
- RLIFT: Site 7, 8, and 9's dikes will be rehabilitated, and raised 4-feet. The second half of Site 7's 13,000-LF dike will be rehabilitated, and raised as that portion was left undone from Reach 30-34.
 - PUMP: Two PUMP events will occur at Sites 7, 8, and 9 each over the 20-year construction period. A total volume of 3,264,240-CY will be dredged from Reach 26-30, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter, and interior ditches will be constructed at the three sites over their entire areas.
 - CONST: None.
 - LIFT: The three sites' dikes will be raised another 4-feet after RLIFT has occurred.
 - SP: None.
- 4) Reach 22-26: Reach 22-26's dredged material will be disposed of at Sites 10, 11, 12A, and 12B. Sites 10, 11, 12A, and, 12B have existing perimeter dikes with lengths of 10,100-LF, 10,000-LF, 12,000-LF, and 23,600-LF, respectively. Sites 10, 11, 12A, and 12B have areas of 135-acres, 135-acres, 160-acres, and 433-acres, respectively. Detailed construction activities are given below:
- RLIFT: The dikes at Sites 10, 11, 12A, and 12B will be rehabilitated, and raised 5-feet.
 - PUMP: Three PUMP events will occur at Site 10, four will occur at Sites 11, and 12A, and six will occur at Site 12B. A total volume of 9,412,800-CY will be dredged from Reach 22-26, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter and interior ditches will be constructed at the four sites over their entire areas.

- CONST: None.
 - LIFT: The four sites' dikes will be raised another 3-feet after RLIFT has occurred.
 - SP: None.
- 5) Reach 21-22: Reach 21-22's dredged material will be disposed of at Sites 15, and 16N. Sites 15, and 16N consist of existing dikes with lengths of 12,800-LF, and 11,100-LF, respectively. Sites 15, and 16 have areas of 181-acres, and 168-acres, respectively. Detailed construction activities are given below:
- RLIFT: The dikes at Sites 15, and 16N will be rehabilitated, and raised 5-feet.
 - PUMP: Five PUMP events will occur at each site. A total volume of 3,302,800-CY will be dredged from Reach 21-22, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter, and interior ditches will be constructed at both sites over their entire areas.
 - CONST: None.
 - LIFT: The two sites' dikes will be raised another 5-feet after RLIFT has occurred.
 - SP: 5,800-LF and 4,200-LF of SP will be applied along the channel side of Sites 15, and 16N, respectively.
- 6) Devil's Elbow: Devil Elbow's dredged material will be disposed of at Sites 13A, and 13B. Both sites have existing perimeter dikes with lengths of 11,500-feet. Both sites have areas of 355-acres. Detailed construction activities are given below:
- RLIFT: The dikes at Sites 13A, and 13B will be rehabilitated, and raised 5-feet.
 - PUMP: Five PUMP events will occur at both sites. A total volume of 7,636,100-CY will be dredged from Reach Devil's Elbow, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required.
 - DAMP: Perimeter, and interior ditches will be constructed at both sites over their entire areas.
 - CONST: None.
 - LIFT: The two sites' dikes will be raised another 5-feet after RLIFT has occurred.
 - SP: None.
- 7) Reach 16-21: Reach 16-21's dredged material will be disposed of at Sites 17, 19, 22, Mercantel (BU 50), Garrison (BU 3), and Foreshore Dike (FSD). Sites 17, 19, and 22 consist of existing dikes with lengths of 39,200-LF, and 11,600-LF, respectively. Sites BU 50 and FSD have no existing dikes, but will have new ones constructed. Their lengths will be 30,000-LF and 24,000-LF each, respectively. Sites 17, 19, 22, and FSD have areas of 160-acres, 149-acres, 236-acres, and 300-acres, respectively. Detailed construction activities are given below:

- RLIFT: The typical 12-FT wide crown dike at Sites 17, 19 and 22 will be rehabilitated and raised 5-feet. Dikes with poor foundation and prone to erosion on the lakeside will be constructed with a 25-FT wide crown and 4:1 side slopes. Additionally existing land and existing dikes along the west side of the Sites will be degraded to allow the FSD and upland sites to be utilized as one area.
 - PUMP: Two PUMP events will occur at Site 17, three will occur at site 19, four will occur at Site 22, five will occur at BU 50, and four will occur at FSD within the 20-year construction period. A total volume of 14,730,700-CY will be dredged from Reach 16-21, and disposed of at these placement sites. The dredged material will be side-cast to the placement site, and will not require booster pumps. Site BU 50 dredge pipeline length will be 36,000-feet, and will require a booster pump.
 - DAMP: The DAMP at Site FSD is applied for 1-year initially. Subsequent applications following fill events will occur for the first year only.
 - CONST: Sites BU 50 will have a 5-foot high dike constructed. FSD will have 10-foot high dike constructed in two 5-foot lifts.
 - LIFT: The dikes at Sites 17, 19, and 22 will be raised another 5-feet respectively.
 - SP: 2,953-LF of traditional SP will be applied to Site 17, and 2,953-LF of SP will be applied at Site 19.
- 8) Reach 12-16: Reach 12-16's dredged material will be disposed of at Sites D/E, FSD, and Sabine (BU 5). Site BU 5 doesn't have dikes, but will have a new one constructed. The length will be 30,000-LF. No work will be done to Site FSD's dike. Sites FSD, and BU 5 have areas of 300-acres, and 2,200-acres, respectively. Site D/E has an area of 403-acres. Detailed construction activities are given below:
- RLIFT: The dikes at Site D/E will be rehabilitated. The typical 12-FT wide crown dikes will be rehabilitated and raised 5-feet. Dikes with poor foundation and prone to erosion on the lakeside will be constructed with a 25-FT wide crown and 4:1 side slopes. Additionally existing land and existing dikes along the west side of the Sites will be degraded to allow the FSD and upland sites to be utilized as one area.
 - PUMP: Four PUMP events will occur at Site D/E, five will occur at BU 5, and four will occur at Site FSD over the 20-year construction period. A total volume of 14,426,700-CY will be dredged from Reach 12-16, and disposed of at these placement sites. The dredged material will be side-cast to the placement site. No booster pumps will be required. Site BU 5 will utilize an 8,000-foot pipeline in conjunction with the CWWPRA pipeline totaling 42,000-feet and two booster pumps.
 - DAMP: The DAMP at the Foreshore Dike site is applied only for 1 year initially, as opposed to the typical 2-year application, since the site is mostly new, and relatively dry, and consolidated. Subsequent applications following fill events are also applied for 1 year only.
 - CONST: Site BU 5 will have new dikes constructed to a height of 5-feet.
 - LIFT: The dike at Site D/E will be raised another 5-feet.
 - SP: None.

9) Reach 9.5-12: Reach 9.5-12's dredged material will be disposed of at Sites Cameron SB (BU 49), and Sabine (BU 18). New dikes will be constructed at sites BU 49, and BU 18 with lengths of 18,000-feet, and 36,000-feet, respectively. The sites areas are 600-acres, and 2,300-acres, respectively. Detailed construction activities are given below:

- RLIFT: None.
- PUMP: Three PUMP events will occur at Site BU 49, and six will occur at Site BU 18 over the 20-year construction period. A total volume of 6,860,518-CY will be dredged from Reach 9.5-12, and disposed of at these placement sites. The sites will utilize a 27,000-foot pipeline, and 23,000-foot pipeline, respectively. One booster pumps will be required.
- DAMP: None.
- CONST: Sites BU 49 and BU 18 will both have new dikes constructed to heights of 5-feet.
- LIFT: None.
- SP: None.

10) Reach 5-9.5: Reach 5-9.5's dredged material will be disposed of at Sites H, M, N, Cameron WR (BU 19), and Cameron WR (BU 20). Sites H, M, and N have existing dikes with lengths of 13,000-foot, 18,600-foot, and 16,400-foot, respectively. Sites BU 19 and BU 20 don't have dikes, but will have new ones constructed each with a length of 4,000feet. Sites H, M, N, BU 19, and BU 20 have areas of 142-acres, 392-acres, 219-acres, 300-acres, and 300-acres, respectively. Detailed construction activities are given below:

- RLIFT: Site H, M, and N's dikes will be rehabilitated, and raised 4-feet.
- PUMP: Two PUMP events will occur at Site H, five will occur at Site M, three will occur at Site N, and one will occur at Sites BU 19, and BU 20 over the 20-year construction period. A total volume of 8,039,476-CY will be dredged from Reach 5-9.5, and disposed of at these placement sites. The dredged material will be side-cast to the placement site, and no booster pumps. Site BU 19, and BU 20 will utilize an 18,000-foot, and 31,000-foot pipeline, respectively. They will not require booster pumps.
- DAMP: Perimeter, and interior ditches will be constructed at Sites H, M, and N over their entire areas.
- CONST: Sites BU 19 and BU 20 will both have new dikes constructed to heights of 5-feet.
- LIFT: The dikes at Sites M, and N will be raised another 4-feet after RLIFT has occurred.
- SP: None.

C. Unusual Conditions: Unusual conditions that might influence construction costs all sites include unusually wet weather conditions, flooding and river currents. Unusual

conditions that might influence construction costs of the beneficial use sites include marsh stability issues, unforeseen owner requirement, and unforeseen property impacts.

- D. Unique Construction Techniques: The dredging will be performed by hydraulic cutterhead dredges with pipelines to the placement sites. The dredge area management ditching will be performed by marshbuggie backhoes and rotary ditchers. The dike construction will be performed by marshbuggie backhoes or bucket dredges depending on the marsh site conditions. The rock shore protection will be placed by barge mounted cranes.
- E. Equipment/Labor Availability and Distance Traveled: All equipment is assumed to be available in the Calcasieu area. Some labor may have to come from other parts of the country.

6. Environmental Concerns

There is assumed little or no environmental issues or mitigation requirements affecting costs or implementation.

7. Effective Dates for Labor, Equipment, and Material Pricing

The labor, equipment, and material pricing were developed using the MCACES 2006 English Unit Cost Library, Local 25 Southern Labor Rates, and the 2005 Equipment Library (Region III) for the base estimate. The index pricing data has been prepared in July 2008 dollars.

The labor rates from the MCACES 2006 National Labor Library were compared with the current Davis-Bacon Wage rates (General Decision County Index LA20080011, and LA20080015) and actual wage rates (provided by New Orleans District), and Local 25 Southern Rates, Effective Through 30 September 2008 (see Appendix D). The Local 25 Southern Rates are higher than Davis-Bacon Wage Rates. Using current Davis-Bacon Wage Rates may not be appropriate for this market due to the extended period of construction duration in an area that is planned to be saturated with construction activity. Therefore the higher Local 25 Southern Labor Rates were used in the estimate. The higher rates along with the overtime will likely be needed to attract labor to this market.

The base estimate has been updated with current quoted fuel prices of \$3.76/gal for off-road diesel (provided by the Designer and approved by the Corps), \$4.59/gal for on-road diesel and \$3.90/gal for gasoline costs in the Calcasieu Louisiana area.

Labor and Equipment Crews Production Output: Production rates for the construction crews have also been estimated based on project conditions. See Appendix E for the Estimated Production Rates and General Assumptions.

8. Project Markups

Escalation: Escalation has been calculated in two steps. Price levels were to be first escalated from effective price levels of the construction cost estimate for July 2008 to an effective price level for October 2008 to match the authorized budget year (FY2009). Since this initial escalation was calculated to be negative based on current OMB data, a zero escalation factor was used per the direction of Walla Walla District Corps of Engineers. Price levels are then escalated again from the budget year to an effective price level for year of construction (i.e. Year 00 price level = October 2009). The escalation cost factors for CWBS Feature Code 12 Navigation Ports and Harbors were taken from EM 1110-2-1304 Civil Works Construction Cost Index System (tables revised 31 March, 2009).

Contingency: Contingencies represent allowances to cover unknowns, uncertainties and/or unanticipated conditions that are not possible to adequately evaluate from the data on hand at the time the cost estimate is prepared but must be represented by a sufficient cost to cover the identified risks.

A 15% contingency has been used for construction years YR00 thru YR04 to cover design changes and uncertainties in quantities and unit prices. The 15% contingency is based on engineering judgment and ER 1110-2-1302, for a Project/Feature Design Memorandum level project.

A 20% contingency has been used for construction years YR05 thru YR19 to cover unpredictable future economic trends as well as design changes and uncertainties in quantities and unit prices.

9. Functional Costs

Functional costs associated with this work were estimated as follows:

- A. 01 Account – Lands and Damages: Costs for this account were provided by the U.S. Army Corps of Engineers, and are for Real Estate Costs.

Real Estate Costs developed for this plan capture the 1 in 3 rule, which refers to the idea that at least one in every three land owners of both Confined Disposal Facilities and Beneficial Use sites will possibly be unwilling to participate in the disposal of dredged material on their site. These litigation costs have been provided via the Real Estate Plan that was prepared by the New Orleans District Real Estate team.

- B. 30 Account - Planning, Engineering, and Design: Costs for this account were estimated at 10% of the construction cost. This account covers the preparation of Plans Specifications and Estimate for construction.

- C. 31 Account - Construction Management: Costs for this account were estimated at 8% of the construction cost. This account covers construction management during the construction contract.

10. Project Cost Estimate

The construction cost estimate was developed using MCACES 2nd Generation (MII) estimating software in accordance with guidance contained in ER 1110-2-1302, Civil Works Cost Engineering. The MCACES construction cost estimate includes the Lands and Damages, Planning, Engineering and Design and the Construction Management costs, however it does not include the project markups noted in Section 8. See Appendix F for the MCACES output report.

The Total Project Cost Summary (TPCS) was developed using an excel spreadsheet which incorporates the MCACES construction cost estimate, project mark-ups, and the functional costs.



**US Army Corps
Of Engineers
New Orleans District**

Calcasieu River and Pass, Louisiana Dredged Material Management Plan

2010 Cost Estimate (MII) for the Recommended Plan

2010 Dollars

**U.S. Army Corps of Engineers,
New Orleans District**

November, 2010

**Completion of Agency Technical Review
Deep Draft Navigation Planning Center of Expertise**

Calcasieu River and Pass Dredged Material Management Plan

New Orleans District has completed the Calcasieu River and Pass Dredged Material Management Plan, which presents a Total Project Cost of \$799,333,000 over a period of twenty years. Notice is hereby given that a review team from the Deep Draft Navigation Planning Center of Expertise has performed agency technical review that is appropriate to the level of risk and complexity inherent in the project. The report was reviewed for compliance with established principles and procedures, and use of clearly justified and valid assumptions. Further, study methods and procedures were reviewed to determine the appropriateness, correctness, and reasonableness of results, including determination of whether the project meets the customer's needs consistent with law and existing Corps policy.

All concerns from the agency technical review of the report have been entered into Dr. Checks (<https://projnet.org/projnet/binKornHome/index-reports2.cfm?strKornCob=DrCkCommentAllReport>) and are provided as an attachment to this notification. The review included the Cost Engineering DX of Walla Walla District. At this time, comments have been addressed in Dr. Checks and document revisions have been verified (November 10, 2010).

We certify that the Calcasieu Report & Environmental Document agency technical review was performed as required by Engineer Circular 1165-2-203, Technical and Policy Compliance Review, dated October 1996.

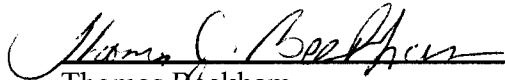
Agency Technical Review Team



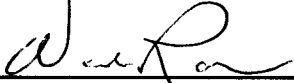
Bernard E. Moseby, Supervisory Economist
Planning and Environmental Division, Mobile District
CESAM-PD-FE




Mike McKown, Geotechnical Engineer
Geotechnical and Geology Section
Engineering Division, Mobile District
CESAM-EN-GG



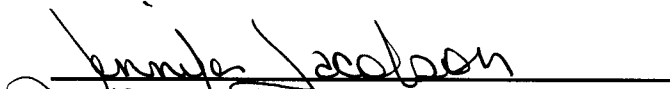
Thomas Beckham
Navigation Section
Operations Division, Mobile District
CESAM-OP-TN



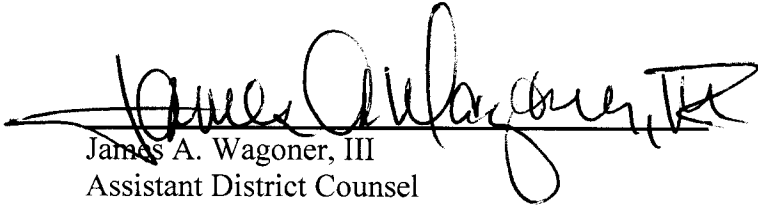
Wade A. Ross, P.E., Chief Coastal Hydrology & Hydraulics
Engineering Division, Mobile District
CESAM-EN-HH



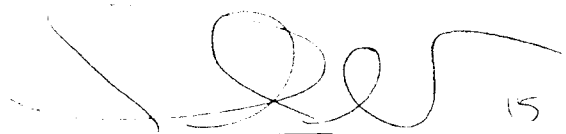
Melissa L. Shirley, Environmental Engineer
Environmental and HTRW Section
Engineering Division, Mobile District
CESAM-EN-GE



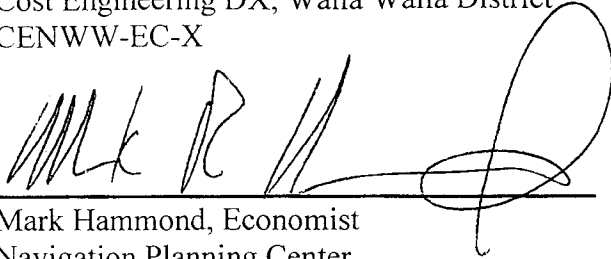
Jennifer L. Jacobson, Supervisory Oceanographer
Planning and Environmental Division, Mobile District
Coastal Environment Team
CESAM-PD-EC



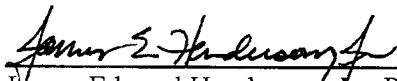
James A. Wagoner, III
Assistant District Counsel
Lead Real Estate Attorney
Mobile District
CESAM-OC

 15 Nov 10

James G. Neubauer
Cost Engineering DX, Walla Walla District
CENWW-EC-X



Mark Hammond, Economist
Navigation Planning Center
LRD, Huntington District
CELRH-NC



James Edward Henderson, Jr., PE, CCE
Regional Technical Specialist (Dredging)
SAC, Charleston District
CESAC-TS-EN-D

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PREPARED: 5 NOV 2010
 DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2011 EFFECT. PRICING LEVEL: 1 OCT 10				FULLY FUNDED ESTIMATE					
YEAR	PROJECT DESCRIPTION	COST* (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
YEAR 00	CALCASIEU DMMP	\$52,438	\$9,439	18%	\$61,877	0.5%	\$52,700	\$9,486	\$62,186	OCT 2012	2.60%	\$54,070	\$9,733	\$63,803
YEAR 01	CALCASIEU DMMP	\$35,232	\$6,342	18%	\$41,574	3.1%	\$36,324	\$6,538	\$42,863	OCT 2013	1.70%	\$36,942	\$6,650	\$43,591
YEAR 02	CALCASIEU DMMP	\$37,011	\$6,662	18%	\$43,673	4.9%	\$38,825	\$6,988	\$45,813	OCT 2014	1.70%	\$39,485	\$7,107	\$46,592
YEAR 03	CALCASIEU DMMP	\$56,052	\$10,089	18%	\$66,141	6.7%	\$59,807	\$10,765	\$70,573	OCT 2015	1.70%	\$60,824	\$10,948	\$71,773
YEAR 04	CALCASIEU DMMP	\$30,043	\$5,408	18%	\$35,451	8.5%	\$32,597	\$5,867	\$38,464	OCT 2016	1.80%	\$33,183	\$5,973	\$39,156
YEAR 05	CALCASIEU DMMP	\$19,588	\$3,526	18%	\$23,114	10.4%	\$21,625	\$3,893	\$25,518	OCT 2017	1.80%	\$22,014	\$3,963	\$25,977
YEAR 06	CALCASIEU DMMP	\$15,815	\$2,847	18%	\$18,662	12.4%	\$17,776	\$3,200	\$20,976	OCT 2018	1.80%	\$18,096	\$3,257	\$21,353
YEAR 07	CALCASIEU DMMP	\$39,894	\$7,181	18%	\$47,075	14.4%	\$45,639	\$8,215	\$53,854	OCT 2019	1.80%	\$46,460	\$8,363	\$54,823
YEAR 08	CALCASIEU DMMP	\$15,716	\$2,829	18%	\$18,545	16.5%	\$18,309	\$3,296	\$21,605	OCT 2020	1.80%	\$18,639	\$3,355	\$21,994
YEAR 09	CALCASIEU DMMP	\$31,347	\$5,642	18%	\$36,989	18.6%	\$37,178	\$6,692	\$43,869	OCT 2021	1.80%	\$37,847	\$6,812	\$44,659
YEAR 10	CALCASIEU DMMP	\$33,533	\$6,036	18%	\$39,569	20.7%	\$40,474	\$7,285	\$47,760	OCT 2022	1.80%	\$41,203	\$7,417	\$48,619
YEAR 11	CALCASIEU DMMP	\$20,727	\$3,731	18%	\$24,458	22.9%	\$25,473	\$4,585	\$30,059	OCT 2023	1.80%	\$25,932	\$4,668	\$30,600
YEAR 12	CALCASIEU DMMP	\$22,920	\$4,126	18%	\$27,046	25.1%	\$28,673	\$5,161	\$33,834	OCT 2024	1.80%	\$29,189	\$5,254	\$34,443
YEAR 13	CALCASIEU DMMP	\$18,955	\$3,412	18%	\$22,367	27.3%	\$24,130	\$4,343	\$28,473	OCT 2025	1.80%	\$24,564	\$4,422	\$28,986
YEAR 14	CALCASIEU DMMP	\$9,208	\$1,657	18%	\$10,865	29.6%	\$11,934	\$2,148	\$14,082	OCT 2026	1.80%	\$12,148	\$2,187	\$14,335
YEAR 15	CALCASIEU DMMP	\$35,960	\$6,473	18%	\$42,433	31.9%	\$47,431	\$8,538	\$55,969	OCT 2027	1.80%	\$48,285	\$8,691	\$56,976
YEAR 16	CALCASIEU DMMP	\$29,467	\$5,304	18%	\$34,771	34.3%	\$39,574	\$7,123	\$46,698	OCT 2028	1.80%	\$40,287	\$7,252	\$47,538
YEAR 17	CALCASIEU DMMP	\$34,510	\$6,212	18%	\$40,722	36.7%	\$47,175	\$8,492	\$55,667	OCT 2029	1.80%	\$48,024	\$8,644	\$56,669
YEAR 18	CALCASIEU DMMP	\$9,511	\$1,712	18%	\$11,223	39.2%	\$13,239	\$2,383	\$15,622	OCT 2030	1.80%	\$13,478	\$2,426	\$15,904
YEAR 19	CALCASIEU DMMP	\$18,527	\$3,335	18%	\$21,862	41.7%	\$26,253	\$4,725	\$30,978	OCT 2031	1.80%	\$26,725	\$4,811	\$31,536
TOTAL PROJECT COSTS =====>		\$566,454	\$101,962		\$668,416		\$665,136	\$119,725	\$784,861			\$677,395	\$121,931	\$799,327

Revised Plan B
 TOTAL COSTS =====> **799,327**

*INCLUDES FUNTIONAL COSTS ASSOCIATED WITH LANDS AND DAMAGES, PLANNING ENGINEERING & DESIGN AND CONSTRUCTION MANAGEMENT

 CHIEF, COST ENGINEERING, THOMAS D. MURPHY, P.E.

 PROJECT MANAGER, PAUL VARNADO

 CHIEF, REAL ESTATE, LINDA LABURE

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2012 EFFECT. PRICING LEVEL: 1 OCT 11				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$26,189	\$4,714	18%	\$30,903	0.50%	\$26,320	\$4,738	\$31,058	OCT 2012	2.60%	\$27,004	\$4,861	\$31,865
C-12-05	DRAINAGE AREA MANAGEMENT	\$167	\$30	18%	\$197	0.50%	\$168	\$30	\$198	OCT 2012	2.60%	\$172	\$31	\$203
C-12-06	DIKE CONST, REHAB AND LIFT	\$14,239	\$2,563	18%	\$16,802	0.50%	\$14,310	\$2,576	\$16,886	OCT 2012	2.60%	\$14,682	\$2,643	\$17,325
C-16-01	SHORELINE PROTECTION			18%		0.50%				OCT 2012	2.60%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$40,595	\$7,307	18%	\$47,902		\$40,798	\$7,344	\$48,142	OCT 2012	2.60%	41,859	\$7,535	\$49,393
P-01	LANDS AND DAMAGES	\$4,535	\$816	18%	\$5,351	0.50%	\$4,558	\$820	\$5,378	OCT 2012	2.60%	\$4,676	\$842	\$5,518
P-30	PLANNING, ENGINEERING & DESIGN	\$4,060	\$731	18%	\$4,791	0.50%	\$4,080	\$734	\$4,815	OCT 2012	2.60%	\$4,186	\$754	\$4,940
P-31	CONSTRUCTION MANAGEMENT	\$3,248	\$585	18%	\$3,833	0.50%	\$3,264	\$588	\$3,852	OCT 2012	2.60%	\$3,349	\$603	\$3,952
TOTAL PROJECT COSTS =====>		\$52,438	\$9,439	18%	\$61,877		\$52,700	\$9,486	\$62,186			54,070	\$9,733	\$63,803

YEAR 00
 TOTAL COSTS =====> **63,803**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2013 EFFECT. PRICING LEVEL: 1 OCT 12				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$22,997	\$4,139	18%	\$27,137	3.10%	\$23,710	\$4,268	\$27,978	OCT 2013	1.70%	\$24,113	\$4,340	\$28,453
C-12-05	DRAINAGE AREA MANAGEMENT	\$293	\$53	18%	\$346	3.10%	\$302	\$54	\$356	OCT 2013	1.70%	\$307	\$55	\$363
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,073	\$193	18%	\$1,266	3.10%	\$1,106	\$199	\$1,305	OCT 2013	1.70%	\$1,125	\$203	\$1,328
C-16-01	SHORELINE PROTECTION	\$2,366	\$426	18%	\$2,792	3.10%	\$2,439	\$439	\$2,878	OCT 2013	1.70%	\$2,481	\$447	\$2,927
TOTAL CONSTRUCTION COSTS ===>		\$26,729	\$4,811	18%	\$31,540		\$27,558	\$4,960	\$32,518	OCT 2013	1.70%	28,026	\$5,045	\$33,071
P-01	LANDS AND DAMAGES	\$3,692	\$665	18%	\$4,357	3.10%	\$3,806	\$685	\$4,492	OCT 2013	1.70%	\$3,871	\$697	\$4,568
P-30	PLANNING, ENGINEERING & DESIGN	\$2,673	\$481	18%	\$3,154	3.10%	\$2,756	\$496	\$3,252	OCT 2013	1.70%	\$2,803	\$504	\$3,307
P-31	CONSTRUCTION MANAGEMENT	\$2,138	\$385	18%	\$2,523	3.10%	\$2,204	\$397	\$2,601	OCT 2013	1.70%	\$2,242	\$404	\$2,645
TOTAL PROJECT COSTS =====>		\$35,232	\$6,342	18%	\$41,574		\$36,324	\$6,538	\$42,863			36,942	\$6,650	\$43,591

YEAR 01
 TOTAL COSTS =====> **43,591**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2014 EFFECT. PRICING LEVEL: 1 OCT 13				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$26,189	\$4,714	18%	\$30,903	4.90%	\$27,472	\$4,945	\$32,417	OCT 2014	1.70%	\$27,939	\$5,029	\$32,968
C-12-05	DRAINAGE AREA MANAGEMENT	\$531	\$96	18%	\$627	4.90%	\$557	\$100	\$657	OCT 2014	1.70%	\$566	\$102	\$668
C-12-06	DIKE CONST, REHAB AND LIFT	\$2,986	\$537	18%	\$3,523	4.90%	\$3,132	\$564	\$3,696	OCT 2014	1.70%	\$3,186	\$573	\$3,759
C-16-01	SHORELINE PROTECTION			18%		4.90%				OCT 2014	1.70%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$29,706	\$5,347	18%	\$35,053		\$31,162	\$5,609	\$36,771	OCT 2014	1.70%	31,691	\$5,704	\$37,396
P-01	LANDS AND DAMAGES	\$1,958	\$352	18%	\$2,310	4.90%	\$2,054	\$370	\$2,424	OCT 2014	1.70%	\$2,089	\$376	\$2,465
P-30	PLANNING, ENGINEERING & DESIGN	\$2,971	\$535	18%	\$3,506	4.90%	\$3,117	\$561	\$3,678	OCT 2014	1.70%	\$3,170	\$571	\$3,740
P-31	CONSTRUCTION MANAGEMENT	\$2,376	\$428	18%	\$2,804	4.90%	\$2,492	\$449	\$2,941	OCT 2014	1.70%	\$2,535	\$456	\$2,991
TOTAL PROJECT COSTS =====>		\$37,011	\$6,662	18%	\$43,673		\$38,825	\$6,988	\$45,813			39,485	\$7,107	\$46,592

YEAR 02
 TOTAL COSTS =====> **46,592**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2015 EFFECT. PRICING LEVEL: 1 OCT 14				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,041	\$1,087	18%	\$7,129	6.70%	\$6,446	\$1,160	\$7,606	OCT 2015	1.70%	\$6,555	\$1,180	\$7,735
C-12-05	DRAINAGE AREA MANAGEMENT	\$758	\$136	18%	\$894	6.70%	\$809	\$146	\$954	OCT 2015	1.70%	\$823	\$148	\$971
C-12-06	DIKE CONST, REHAB AND LIFT	\$34,287	\$6,172	18%	\$40,459	6.70%	\$36,584	\$6,585	\$43,169	OCT 2015	1.70%	\$37,206	\$6,697	\$43,903
C-16-01	SHORELINE PROTECTION	\$5,603	\$1,009	18%	\$6,612	6.70%	\$5,978	\$1,076	\$7,055	OCT 2015	1.70%	\$6,080	\$1,094	\$7,174
TOTAL CONSTRUCTION COSTS ===>		\$46,689	\$8,404	18%	\$55,093		\$49,817	\$8,967	\$58,784	OCT 2015	1.70%	50,664	\$9,120	\$59,784
P-01	LANDS AND DAMAGES	\$959	\$173	18%	\$1,132	6.70%	\$1,023	\$184	\$1,207	OCT 2015	1.70%	\$1,041	\$187	\$1,228
P-30	PLANNING, ENGINEERING & DESIGN	\$4,669	\$840	18%	\$5,509	6.70%	\$4,982	\$897	\$5,879	OCT 2015	1.70%	\$5,067	\$912	\$5,979
P-31	CONSTRUCTION MANAGEMENT	\$3,735	\$672	18%	\$4,407	6.70%	\$3,985	\$717	\$4,703	OCT 2015	1.70%	\$4,053	\$730	\$4,783
TOTAL PROJECT COSTS =====>		\$56,052	\$10,089	18%	\$66,141		\$59,807	\$10,765	\$70,573			60,824	\$10,948	\$71,773

YEAR 03
 TOTAL COSTS =====>

71,773

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2016 EFFECT. PRICING LEVEL: 1 OCT 15				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$24,924	\$4,486	18%	\$29,411	8.50%	\$27,043	\$4,868	\$31,910	OCT 2016	1.80%	\$27,529	\$4,955	\$32,485
C-12-05	DRAINAGE AREA MANAGEMENT	\$311	\$56	18%	\$367	8.50%	\$337	\$61	\$398	OCT 2016	1.80%	\$344	\$62	\$405
C-12-06	DIKE CONST, REHAB AND LIFT			18%		8.50%				OCT 2016	1.80%			\$0
C-16-01	SHORELINE PROTECTION			18%		8.50%				OCT 2016	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$25,235	\$4,542	18%	\$29,777		\$27,380	\$4,928	\$32,308	OCT 2016	1.80%	27,873	\$5,017	\$32,890
P-01	LANDS AND DAMAGES	\$265	\$48	18%	\$313	8.50%	\$288	\$52	\$339	OCT 2016	1.80%	\$293	\$53	\$345
P-30	PLANNING, ENGINEERING & DESIGN	\$2,524	\$454	18%	\$2,978	8.50%	\$2,739	\$493	\$3,231	OCT 2016	1.80%	\$2,788	\$502	\$3,290
P-31	CONSTRUCTION MANAGEMENT	\$2,019	\$363	18%	\$2,382	8.50%	\$2,191	\$394	\$2,585	OCT 2016	1.80%	\$2,230	\$401	\$2,631
TOTAL PROJECT COSTS =====>		\$30,043	\$5,408	18%	\$35,451		\$32,597	\$5,867	\$38,464			33,183	\$5,973	\$39,156

YEAR 04
 TOTAL COSTS =====>

39,156

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2017 EFFECT. PRICING LEVEL: 1 OCT 16				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$15,731	\$2,832	18%	\$18,563	10.40%	\$17,367	\$3,126	\$20,493	OCT 2017	1.80%	\$17,680	\$3,182	\$20,862
C-12-05	DRAINAGE AREA MANAGEMENT	\$498	\$90	18%	\$588	10.40%	\$550	\$99	\$649	OCT 2017	1.80%	\$560	\$101	\$660
C-12-06	DIKE CONST, REHAB AND LIFT	\$371	\$67	18%	\$438	10.40%	\$410	\$74	\$483	OCT 2017	1.80%	\$417	\$75	\$492
C-16-01	SHORELINE PROTECTION			18%		10.40%				OCT 2017	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$16,600	\$2,988	18%	\$19,588		\$18,326	\$3,299	\$21,625	OCT 2017	1.80%	18,656	\$3,358	\$22,014
P-01	LANDS AND DAMAGES		\$0	18%	\$0	10.40%	\$0	\$0	\$0	OCT 2017	1.80%	\$0	\$0	\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,660	\$299	18%	\$1,959	10.40%	\$1,833	\$330	\$2,163	OCT 2017	1.80%	\$1,866	\$336	\$2,201
P-31	CONSTRUCTION MANAGEMENT	\$1,328	\$239	18%	\$1,567	10.40%	\$1,466	\$264	\$1,730	OCT 2017	1.80%	\$1,493	\$269	\$1,761
TOTAL PROJECT COSTS =====>		\$19,588	\$3,526	18%	\$23,114		\$21,625	\$3,893	\$25,518			22,015	\$3,963	\$25,977

YEAR 05
 TOTAL COSTS =====> **25,977**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2018 EFFECT. PRICING LEVEL: 1 OCT 17				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,890	\$1,240	18%	\$8,130	12.40%	\$7,744	\$1,394	\$9,138	OCT 2018	1.80%	\$7,884	\$1,419	\$9,303
C-12-05	DRAINAGE AREA MANAGEMENT	\$5,230	\$941	18%	\$6,171	12.40%	\$5,879	\$1,058	\$6,937	OCT 2018	1.80%	\$5,984	\$1,077	\$7,062
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,168	\$210	18%	\$1,378	12.40%	\$1,313	\$236	\$1,549	OCT 2018	1.80%	\$1,336	\$241	\$1,577
C-16-01	SHORELINE PROTECTION			18%		12.40%				OCT 2018	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$13,288	\$2,392	18%	\$15,680		\$14,936	\$2,688	\$17,624	OCT 2018	1.80%	15,205	\$2,737	\$17,941
P-01	LANDS AND DAMAGES	\$135	\$24	18%	\$159	12.40%	\$152	\$27	\$179	OCT 2018	1.80%	\$154	\$28	\$182
P-30	PLANNING, ENGINEERING & DESIGN	\$1,329	\$239	18%	\$1,568	12.40%	\$1,494	\$269	\$1,763	OCT 2018	1.80%	\$1,521	\$274	\$1,794
P-31	CONSTRUCTION MANAGEMENT	\$1,063	\$191	18%	\$1,254	12.40%	\$1,195	\$215	\$1,410	OCT 2018	1.80%	\$1,216	\$219	\$1,435
TOTAL PROJECT COSTS =====>		\$15,815	\$2,847	18%	\$18,662		\$17,776	\$3,200	\$20,976			18,096	\$3,257	\$21,353

YEAR 06
 TOTAL COSTS =====> **21,353**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2019 EFFECT. PRICING LEVEL: 1 OCT 18				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$32,719	\$5,889	18%	\$38,609	14.40%	\$37,431	\$6,737	\$44,168	OCT 2019	1.80%	\$38,104	\$6,859	\$44,963
C-12-05	DRAINAGE AREA MANAGEMENT	\$263	\$47	18%	\$310	14.40%	\$301	\$54	\$355	OCT 2019	1.80%	\$306	\$55	\$361
C-12-06	DIKE CONST, REHAB AND LIFT	\$826	\$149	18%	\$975	14.40%	\$945	\$170	\$1,115	OCT 2019	1.80%	\$962	\$173	\$1,135
C-16-01	SHORELINE PROTECTION			18%		14.40%				OCT 2019	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$33,808	\$6,085	18%	\$39,893		\$38,676	\$6,962	\$45,638	OCT 2019	1.80%	39,373	\$7,087	\$46,460
P-01	LANDS AND DAMAGES			18%		14.40%				OCT 2019	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$3,381	\$609	18%	\$3,990	14.40%	\$3,868	\$696	\$4,564	OCT 2019	1.80%	\$3,937	\$709	\$4,646
P-31	CONSTRUCTION MANAGEMENT	\$2,705	\$487	18%	\$3,192	14.40%	\$3,095	\$557	\$3,652	OCT 2019	1.80%	\$3,150	\$567	\$3,717
TOTAL PROJECT COSTS =====>		\$39,894	\$7,181	18%	\$47,075		\$45,639	\$8,215	\$53,854			46,460	\$8,363	\$54,823

YEAR 07
 TOTAL COSTS =====> **54,823**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2020 EFFECT. PRICING LEVEL: 1 OCT 19				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,889	\$1,240	18%	\$8,129	16.50%	\$8,026	\$1,445	\$9,470	OCT 2020	1.80%	\$8,170	\$1,471	\$9,641
C-12-05	DRAINAGE AREA MANAGEMENT	\$358	\$64	18%	\$422	16.50%	\$417	\$75	\$492	OCT 2020	1.80%	\$425	\$76	\$501
C-12-06	DIKE CONST, REHAB AND LIFT	\$5,933	\$1,068	18%	\$7,001	16.50%	\$6,912	\$1,244	\$8,156	OCT 2020	1.80%	\$7,036	\$1,267	\$8,303
C-16-01	SHORELINE PROTECTION			18%		16.50%				OCT 2020	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$13,180	\$2,372	18%	\$15,552		\$15,355	\$2,764	\$18,119	OCT 2020	1.80%	15,631	\$2,814	\$18,445
P-01	LANDS AND DAMAGES	\$164	\$30	18%	\$194	16.50%	\$191	\$34	\$225	OCT 2020	1.80%	\$194	\$35	\$230
P-30	PLANNING, ENGINEERING & DESIGN	\$1,318	\$237	18%	\$1,555	16.50%	\$1,535	\$276	\$1,812	OCT 2020	1.80%	\$1,563	\$281	\$1,844
P-31	CONSTRUCTION MANAGEMENT	\$1,054	\$190	18%	\$1,244	16.50%	\$1,228	\$221	\$1,449	OCT 2020	1.80%	\$1,250	\$225	\$1,475
TOTAL PROJECT COSTS =====>		\$15,716	\$2,829	18%	\$18,545		\$18,309	\$3,296	\$21,605			18,639	\$3,355	\$21,994

YEAR 08
 TOTAL COSTS =====> **21,994**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2021 EFFECT. PRICING LEVEL: 1 OCT 20				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$10,922	\$1,966	18%	\$12,888	18.60%	\$12,953	\$2,332	\$15,285	OCT 2021	1.80%	\$13,187	\$2,374	\$15,560
C-12-05	DRAINAGE AREA MANAGEMENT	\$238	\$43	18%	\$281	18.60%	\$282	\$51	\$333	OCT 2021	1.80%	\$287	\$52	\$339
C-12-06	DIKE CONST, REHAB AND LIFT	\$15,405	\$2,773	18%	\$18,178	18.60%	\$18,270	\$3,289	\$21,559	OCT 2021	1.80%	\$18,599	\$3,348	\$21,947
C-16-01	SHORELINE PROTECTION			18%		18.60%				OCT 2021	1.80%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$26,565	\$4,782	18%	\$31,347		\$31,506	\$5,671	\$37,177	OCT 2021	1.80%	32,073	\$5,773	\$37,846
P-01	LANDS AND DAMAGES			18%		18.60%				OCT 2021	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$2,657	\$478	18%	\$3,135	18.60%	\$3,151	\$567	\$3,718	OCT 2021	1.80%	\$3,208	\$577	\$3,785
P-31	CONSTRUCTION MANAGEMENT	\$2,125	\$383	18%	\$2,508	18.60%	\$2,520	\$454	\$2,974	OCT 2021	1.80%	\$2,566	\$462	\$3,027
TOTAL PROJECT COSTS =====>		\$31,347	\$5,642	18%	\$36,989		\$37,178	\$6,692	\$43,869			37,847	\$6,812	\$44,659

YEAR 09
 TOTAL COSTS =====> 44,659

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2022 EFFECT. PRICING LEVEL: 1 OCT 21				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$27,505	\$4,951	18%	\$32,456	20.70%	\$33,199	\$5,976	\$39,174	OCT 2022	1.80%	\$33,796	\$6,083	\$39,879
C-12-05	DRAINAGE AREA MANAGEMENT	\$409	\$74	18%	\$483	20.70%	\$494	\$89	\$583	OCT 2022	1.80%	\$503	\$90	\$593
C-12-06	DIKE CONST, REHAB AND LIFT	\$504	\$91	18%	\$595	20.70%	\$608	\$109	\$718	OCT 2022	1.80%	\$619	\$111	\$731
C-16-01	SHORELINE PROTECTION			18%		20.70%				OCT 2022	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$28,418	\$5,115	18%	\$33,533		\$34,301	\$6,174	\$40,475	OCT 2022	1.80%	34,918	\$6,285	\$41,203
P-01	LANDS AND DAMAGES			18%		20.70%				OCT 2022	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$2,842	\$512	18%	\$3,354	20.70%	\$3,430	\$617	\$4,048	OCT 2022	1.80%	\$3,492	\$629	\$4,121
P-31	CONSTRUCTION MANAGEMENT	\$2,273	\$409	18%	\$2,682	20.70%	\$2,744	\$494	\$3,237	OCT 2022	1.80%	\$2,793	\$503	\$3,296
TOTAL PROJECT COSTS =====>		\$33,533	\$6,036	18%	\$39,569		\$40,474	\$7,285	\$47,760			41,203	\$7,417	\$48,619

YEAR 10
 TOTAL COSTS =====> **48,619**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2023 EFFECT. PRICING LEVEL: 1 OCT 22				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$10,045	\$1,808	18%	\$11,853	22.90%	\$12,345	\$2,222	\$14,568	OCT 2023	1.80%	\$12,568	\$2,262	\$14,830
C-12-05	DRAINAGE AREA MANAGEMENT	\$638	\$115	18%	\$753	22.90%	\$784	\$141	\$925	OCT 2023	1.80%	\$798	\$144	\$942
C-12-06	DIKE CONST, REHAB AND LIFT	\$5,518	\$993	18%	\$6,511	22.90%	\$6,782	\$1,221	\$8,002	OCT 2023	1.80%	\$6,904	\$1,243	\$8,146
C-16-01	SHORELINE PROTECTION	\$1,345	\$242	18%	\$1,587	22.90%	\$1,653	\$298	\$1,951	OCT 2023	1.80%	\$1,683	\$303	\$1,986
TOTAL CONSTRUCTION COSTS ==>		\$17,546	\$3,158	18%	\$20,704		\$21,564	\$3,882	\$25,446	OCT 2023	1.80%	21,952	\$3,951	\$25,904
P-01	LANDS AND DAMAGES	\$22	\$4	18%	\$26	22.90%	\$27	\$5	\$32	OCT 2023	1.80%	\$28	\$5	\$32
P-30	PLANNING, ENGINEERING & DESIGN	\$1,755	\$316	18%	\$2,071	22.90%	\$2,157	\$388	\$2,545	OCT 2023	1.80%	\$2,196	\$395	\$2,591
P-31	CONSTRUCTION MANAGEMENT	\$1,404	\$253	18%	\$1,657	22.90%	\$1,726	\$311	\$2,036	OCT 2023	1.80%	\$1,757	\$316	\$2,073
TOTAL PROJECT COSTS =====>		\$20,727	\$3,731	18%	\$24,458		\$25,473	\$4,585	\$30,059			25,932	\$4,668	\$30,600

YEAR 11
 TOTAL COSTS =====> 30,600

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2024 EFFECT. PRICING LEVEL: 1 OCT 23				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$18,201	\$3,276	18%	\$21,477	25.10%	\$22,769	\$4,099	\$26,868	OCT 2024	1.80%	\$23,179	\$4,172	\$27,352
C-12-05	DRAINAGE AREA MANAGEMENT	\$306	\$55	18%	\$361	25.10%	\$383	\$69	\$452	OCT 2024	1.80%	\$390	\$70	\$460
C-12-06	DIKE CONST, REHAB AND LIFT	\$912	\$164	18%	\$1,076	25.10%	\$1,141	\$205	\$1,346	OCT 2024	1.80%	\$1,161	\$209	\$1,371
C-16-01	SHORELINE PROTECTION			18%		25.10%				OCT 2024	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$19,419	\$3,495	18%	\$22,914		\$24,293	\$4,373	\$28,666	OCT 2024	1.80%	24,730	\$4,451	\$29,182
P-01	LANDS AND DAMAGES	\$5	\$1	18%	\$6	25.10%	\$6	\$1	\$7	OCT 2024	1.80%	\$6	\$1	\$8
P-30	PLANNING, ENGINEERING & DESIGN	\$1,942	\$350	18%	\$2,292	25.10%	\$2,429	\$437	\$2,867	OCT 2024	1.80%	\$2,473	\$445	\$2,918
P-31	CONSTRUCTION MANAGEMENT	\$1,554	\$280	18%	\$1,834	25.10%	\$1,944	\$350	\$2,294	OCT 2024	1.80%	\$1,979	\$356	\$2,335
TOTAL PROJECT COSTS =====>		\$22,920	\$4,126	18%	\$27,046		\$28,673	\$5,161	\$33,834			29,189	\$5,254	\$34,443

YEAR 12
 TOTAL COSTS =====> 34,443

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2025 EFFECT. PRICING LEVEL: 1 OCT 24				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$15,504	\$2,791	18%	\$18,295	27.30%	\$19,737	\$3,553	\$23,289	OCT 2025	1.80%	\$20,092	\$3,617	\$23,708
C-12-05	DRAINAGE AREA MANAGEMENT	\$560	\$101	18%	\$661	27.30%	\$713	\$128	\$841	OCT 2025	1.80%	\$726	\$131	\$856
C-12-06	DIKE CONST, REHAB AND LIFT			18%		27.30%				OCT 2025	1.80%			\$0
C-16-01	SHORELINE PROTECTION			18%		27.30%				OCT 2025	1.80%			\$0
TOTAL CONSTRUCTION COSTS ==>		\$16,064	\$2,892	18%	\$18,956		\$20,449	\$3,681	\$24,131	OCT 2025	1.80%	20,818	\$3,747	\$24,565
P-01	LANDS AND DAMAGES			18%		27.30%				OCT 2025	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,606	\$289	18%	\$1,895	27.30%	\$2,044	\$368	\$2,412	OCT 2025	1.80%	\$2,081	\$375	\$2,456
P-31	CONSTRUCTION MANAGEMENT	\$1,285	\$231	18%	\$1,516	27.30%	\$1,636	\$294	\$1,930	OCT 2025	1.80%	\$1,665	\$300	\$1,965
TOTAL PROJECT COSTS =====>		\$18,955	\$3,412	18%	\$22,367		\$24,130	\$4,343	\$28,473			24,564	\$4,422	\$28,986

YEAR 13
 TOTAL COSTS =====> **28,986**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010						AUTHORIZ./BUDGET YEAR: 2026 EFFECT. PRICING LEVEL: 1 OCT 25				FULLY FUNDED ESTIMATE				
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,889	\$1,240	18%	\$8,129	29.60%	\$8,928	\$1,607	\$10,536	OCT 2026	1.80%	\$9,089	\$1,636	\$10,725
C-12-05	DRAINAGE AREA MANAGEMENT	\$350	\$63	18%	\$413	29.60%	\$454	\$82	\$535	OCT 2026	1.80%	\$462	\$83	\$545
C-12-06	DIKE CONST, REHAB AND LIFT	\$565	\$102	18%	\$667	29.60%	\$732	\$132	\$864	OCT 2026	1.80%	\$745	\$134	\$880
C-16-01	SHORELINE PROTECTION			18%		29.60%				OCT 2026	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$7,804	\$1,405	18%	\$9,209		\$10,114	\$1,821	\$11,935	OCT 2026	1.80%	10,296	\$1,853	\$12,149
P-01	LANDS AND DAMAGES			18%		29.60%				OCT 2026	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$780	\$140	18%	\$920	29.60%	\$1,011	\$182	\$1,193	OCT 2026	1.80%	\$1,029	\$185	\$1,214
P-31	CONSTRUCTION MANAGEMENT	\$624	\$112	18%	\$736	29.60%	\$809	\$146	\$954	OCT 2026	1.80%	\$823	\$148	\$971
TOTAL PROJECT COSTS =====>		\$9,208	\$1,657	18%	\$10,865		\$11,934	\$2,148	\$14,082			12,148	\$2,187	\$14,335

YEAR 14
 TOTAL COSTS =====> 14,335

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2027 EFFECT. PRICING LEVEL: 1 OCT 26				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$28,362	\$5,105	18%	\$33,467	31.90%	\$37,409	\$6,734	\$44,144	OCT 2027	1.80%	\$38,083	\$6,855	\$44,938
C-12-05	DRAINAGE AREA MANAGEMENT	\$235	\$42	18%	\$277	31.90%	\$310	\$56	\$366	OCT 2027	1.80%	\$316	\$57	\$372
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,873	\$337	18%	\$2,210	31.90%	\$2,470	\$445	\$2,915	OCT 2027	1.80%	\$2,515	\$453	\$2,968
C-16-01	SHORELINE PROTECTION			18%		31.90%				OCT 2027	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$30,470	\$5,485	18%	\$35,955		\$40,190	\$7,234	\$47,424	OCT 2027	1.80%	40,913	\$7,364	\$48,278
P-01	LANDS AND DAMAGES	\$5	\$1	18%	\$6	31.90%	\$7	\$1	\$8	OCT 2027	1.80%	\$7	\$1	\$8
P-30	PLANNING, ENGINEERING & DESIGN	\$3,047	\$548	18%	\$3,595	31.90%	\$4,019	\$723	\$4,742	OCT 2027	1.80%	\$4,091	\$736	\$4,828
P-31	CONSTRUCTION MANAGEMENT	\$2,438	\$439	18%	\$2,877	31.90%	\$3,216	\$579	\$3,795	OCT 2027	1.80%	\$3,274	\$589	\$3,863
TOTAL PROJECT COSTS =====>		\$35,960	\$6,473	18%	\$42,433		\$47,431	\$8,538	\$55,969			48,285	\$8,691	\$56,976

YEAR 15
 TOTAL COSTS =====> **56,976**

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2028 EFFECT. PRICING LEVEL: 1 OCT 27				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$16,358	\$2,944	18%	\$19,303	34.30%	\$21,969	\$3,954	\$25,924	OCT 2028	1.80%	\$22,364	\$4,026	\$26,390
C-12-05	DRAINAGE AREA MANAGEMENT	\$8,243	\$1,484	18%	\$9,727	34.30%	\$11,070	\$1,993	\$13,063	OCT 2028	1.80%	\$11,270	\$2,029	\$13,298
C-12-06	DIKE CONST, REHAB AND LIFT	\$371	\$67	18%	\$438	34.30%	\$498	\$90	\$588	OCT 2028	1.80%	\$507	\$91	\$599
C-16-01	SHORELINE PROTECTION			18%		34.30%				OCT 2028	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$24,972	\$4,495	18%	\$29,467		\$33,537	\$6,037	\$39,574	OCT 2028	1.80%	\$34,141	\$6,145	\$40,286
P-01	LANDS AND DAMAGES			18%		34.30%				OCT 2028	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$2,497	\$449	18%	\$2,946	34.30%	\$3,353	\$604	\$3,957	OCT 2028	1.80%	\$3,414	\$614	\$4,028
P-31	CONSTRUCTION MANAGEMENT	\$1,998	\$360	18%	\$2,358	34.30%	\$2,683	\$483	\$3,166	OCT 2028	1.80%	\$2,732	\$492	\$3,223
TOTAL PROJECT COSTS =====>		\$29,467	\$5,304	18%	\$34,771		\$39,574	\$7,123	\$46,698			\$40,287	\$7,252	\$47,538

YEAR 16
 TOTAL COSTS =====> 47,538

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2029 EFFECT. PRICING LEVEL: 1 OCT 28				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$27,668	\$4,980	18%	\$32,648	36.70%	\$37,822	\$6,808	\$44,631	OCT 2029	1.80%	\$38,503	\$6,931	\$45,434
C-12-05	DRAINAGE AREA MANAGEMENT	\$373	\$67	18%	\$440	36.70%	\$510	\$92	\$602	OCT 2029	1.80%	\$519	\$93	\$613
C-12-06	DIKE CONST, REHAB AND LIFT	\$1,201	\$216	18%	\$1,417	36.70%	\$1,642	\$296	\$1,937	OCT 2029	1.80%	\$1,671	\$301	\$1,972
C-16-01	SHORELINE PROTECTION			18%		36.70%				OCT 2029	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$29,242	\$5,264	18%	\$34,506		\$39,974	\$7,195	\$47,169	OCT 2029	1.80%	40,693	\$7,325	\$48,018
P-01	LANDS AND DAMAGES	\$5	\$1	18%	\$6	36.70%	\$7	\$1	\$8	OCT 2029	1.80%	\$7	\$1	\$8
P-30	PLANNING, ENGINEERING & DESIGN	\$2,924	\$526	18%	\$3,450	36.70%	\$3,997	\$719	\$4,717	OCT 2029	1.80%	\$4,069	\$732	\$4,802
P-31	CONSTRUCTION MANAGEMENT	\$2,339	\$421	18%	\$2,760	36.70%	\$3,197	\$576	\$3,773	OCT 2029	1.80%	\$3,255	\$586	\$3,841
TOTAL PROJECT COSTS =====>		\$34,510	\$6,212	18%	\$40,722		\$47,175	\$8,492	\$55,667			48,024	\$8,644	\$56,669

YEAR 17
TOTAL COSTS =====>

56,669

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2030 EFFECT. PRICING LEVEL: 1 OCT 29				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$6,882	\$1,239	18%	\$8,121	39.20%	\$9,580	\$1,724	\$11,304	OCT 2030	1.80%	\$9,752	\$1,755	\$11,508
C-12-05	DRAINAGE AREA MANAGEMENT	\$331	\$60	18%	\$391	39.20%	\$461	\$83	\$544	OCT 2030	1.80%	\$469	\$84	\$553
C-12-06	DIKE CONST, REHAB AND LIFT	\$847	\$152	18%	\$999	39.20%	\$1,179	\$212	\$1,391	OCT 2030	1.80%	\$1,200	\$216	\$1,416
C-16-01	SHORELINE PROTECTION			18%		39.20%				OCT 2030	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$8,060	\$1,451	18%	\$9,511		\$11,220	\$2,020	\$13,239	OCT 2030	1.80%	11,421	\$2,056	\$13,477
P-01	LANDS AND DAMAGES			18%		39.20%				OCT 2030	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$806	\$145	18%	\$951	39.20%	\$1,122	\$202	\$1,324	OCT 2030	1.80%	\$1,142	\$206	\$1,348
P-31	CONSTRUCTION MANAGEMENT	\$645	\$116	18%	\$761	39.20%	\$898	\$162	\$1,059	OCT 2030	1.80%	\$914	\$165	\$1,079
TOTAL PROJECT COSTS =====>		\$9,511	\$1,712	18%	\$11,223		\$13,239	\$2,383	\$15,622			13,478	\$2,426	\$15,904

YEAR 18
 TOTAL COSTS =====>

15,904

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT, DATED: FEB-2008

PROJECT: DMMP
 LOCATION: Calcasieu LA

CALCASIEU RIVER AND PASS DMMP

DISTRICT: NEW ORLEANS
 P.O.C.: Paul Varnado

CURRENT MCACES ESTIMATE PREPARED: 5 NOV 2010 EFFECTIVE PRICING LEVEL: NOV 2010					AUTHORIZ./BUDGET YEAR: 2031 EFFECT. PRICING LEVEL: 1 OCT 30				FULLY FUNDED ESTIMATE					
ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE CONST PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
C-02-01	RELOCATIONS	N/A												
C-12-04	HYDRAULIC DREDGING	\$15,466	\$2,784	18%	\$18,250	41.70%	\$21,915	\$3,945	\$25,860	OCT 2031	1.80%	\$22,310	\$4,016	\$26,326
C-12-05	DRAINAGE AREA MANAGEMENT	\$235	\$42	18%	\$277	41.70%	\$333	\$60	\$393	OCT 2031	1.80%	\$339	\$61	\$400
C-12-06	DIKE CONST, REHAB AND LIFT			18%		41.70%				OCT 2031	1.80%			\$0
C-16-01	SHORELINE PROTECTION			18%		41.70%				OCT 2031	1.80%			\$0
TOTAL CONSTRUCTION COSTS ===>		\$15,701	\$2,826	18%	\$18,527		\$22,248	\$4,005	\$26,253	OCT 2031	1.80%	22,649	\$4,077	\$26,726
P-01	LANDS AND DAMAGES			18%		41.70%				OCT 2031	1.80%			\$0
P-30	PLANNING, ENGINEERING & DESIGN	\$1,570	\$283	18%	\$1,853	41.70%	\$2,225	\$400	\$2,625	OCT 2031	1.80%	\$2,265	\$408	\$2,672
P-31	CONSTRUCTION MANAGEMENT	\$1,256	\$226	18%	\$1,482	41.70%	\$1,780	\$320	\$2,100	OCT 2031	1.80%	\$1,812	\$326	\$2,138
TOTAL PROJECT COSTS =====>		\$18,527	\$3,335	18%	\$21,862		\$26,253	\$4,725	\$30,978			26,725	\$4,811	\$31,536

YEAR 19
 TOTAL COSTS =====>

31,536