

Terrebonne Basin Barrier Shoreline Restoration - NER
NER consists of beach/dune and marsh restoration of Whiskey Island, Trinity Island, Raccoon Island, and Timbalier Island

Estimated by CEC-SJB
Designed by CEC-SJB
Prepared by CEC-SJB

Preparation Date 4/27/2010
Effective Date of Pricing 11/11/2009
Estimated Construction Time Days

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Date	Author	Note
4/27/2010	Steve Dartez	<p data-bbox="352 240 1900 337">Introduction The Terrebonne Basin Barrier Shoreline Restoration Project (TBBSR or Project) was identified in the Louisiana Coastal Area, (LCA), Louisiana Ecosystem Restoration Study (USACE 2004; 2004 LCA Plan). The 2004 LCA Plan was recommended to Congress by a Chief of Engineers report dated January 31, 2005, which called for a coordinated, feasible solution to the identified critical water resource problems and opportunities in coastal Louisiana.</p> <p data-bbox="352 362 1900 410">The Project, located in LCA Subprovince 3, provides for the restoration of the Timbalier and Isles Dernieres barrier island chains located in Terrebonne Parish and Lafourche Parish, Louisiana.</p> <p data-bbox="352 435 768 456">National Ecosystem Restoration Plan (NER)</p> <p data-bbox="352 480 1900 553">The plan consists of restoration of Whiskey, Trinity, Raccoon and Timbalier Islands to their minimal geomorphologic form and ecologic function. Includes five (5) years of background erosion / land loss for Whiskey and Raccoon Islands and twenty five (25) years of background erosion / land loss for Raccoon and Timbalier Islands.</p> <p data-bbox="352 578 1900 699">The NER will utilize beach/dune material from Ship Shoal blocks 88, 89, 94, and 95; South Pelto blocks 12 and 13. Marsh material will originate from nearshore borrow areas identified and studied for the Whiskey Island TE-50 marsh creation project (Whiskey 3A), Raccoon Island TE-48 marsh creation project (Raccoon BA), and New Cut TE-37 dune/marsh restoration project (New Cut BA). All borrow areas have published geotechnical and geophysical survey data collected for other barrier island restoration efforts. Analysis of this data lead to the development of dredge-to-fill ratios of 1.13:1 for Ship Shoal and South Pelto as beach/dune fill material; 1.6:1 for Whiskey 3A upper layer as marsh fill material; and 1.3:1 for Raccoon BA, Whiskey 3A lower layer, and New Cut BA as marsh fill.</p> <p data-bbox="352 724 968 745">Fill quantities for the dune/beach and marsh components include:</p> <ol data-bbox="352 753 1900 875" style="list-style-type: none">1) Whiskey Plan C are 8,330,215cy beach/dune from Ship Shoal and 579,724cy marsh from Whiskey 3A upper layer.2) Trinity Plan C are 3,813,885cy beach/dune from Ship Shoal and 3,772,925cy for marsh from Whiskey 3A upper layer.3) Raccoon Plan E are 5,381,956cy beach/dune from Ship Shoal, 2,763,555cy marsh from Ship Shoal, and 1,846,154cy marsh from Raccoon BA.4) Timbalier Plan E are 10,702,818cy beach/dune from South Pelto, 3,083,736cy marsh from South Pelto, 435,735cy marsh from Whiskey 3A upper layer, 3,630,769cy marsh from Whiskey 3A lower layer, and 1,923,077cy marsh from New Cut BA. <p data-bbox="352 899 1900 948">For the beach/dune area, a 30" cutterhead dredge would be used with the assistance of booster pumps to transport the material from the borrow areas to the beach/fill template. The material will then be worked on the beach/dune by bulldozers.</p> <p data-bbox="352 972 1900 1021">For the marsh area, the material will be pumped from borrow areas by a 30" cutterhead dredge with the assistance of booster pumps. The discharge pipe for marsh fill will be directed in the template through movements of the pipeline with the assistance of a marsh backhoe.</p> <p data-bbox="352 1045 1900 1094">Containment dikes will be constructed around the perimeter of the marsh fill template to retain the sediment. Sediment for the containment dikes will be dredged from existing material alongside the dike alignment by a barge mounted clam shell dredge.</p> <p data-bbox="352 1118 1900 1192">Access channel and containment dike cost were developed from past construction projects as a per linear foot unit cost. This method was chosen because the survey data available was widely spaced (~1500 feet) preventing the designers of the feasibility level construction templates from determining accurate cubic yard excavation volumes. Construction operations will be completed in a manner that will minimize turbidity of the water at the dredge site and the discharge site.</p> <p data-bbox="352 1216 1900 1265">Sand fencing will be installed in a single row along the entire length of the dune feature for each island. Vegetative plantings will include a variety of native species. The recommended planting density is no greater than 8-foot centers.</p> <p data-bbox="352 1289 1900 1359">Vegetative Plantings would take place in years TY1, TY2, & TY3 following fill completion. TY1 plantings consist of aerial seeding and planting the dune/swale area with planting on 8 foot centers. TY2 plantings consist of planting 50% of the marsh fill area on 8 foot centers and woody species on the dune/swale and marsh areas. TY3 plantings consist of planting the remaining 50% of the marsh fill area.</p>

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
Summary				602,382,998.25	739,981,771.58
Contract #1 - Initial Restoration - Whiskey,Trinity, Raccoon Is.	1.0000	EA		212,867,973.11	260,137,357.65
01 Lands & Damages	1.0000	EA		150,000.00	150,000.00
06 Fish & Wildlife	1.0000	EA		5,821,200.00	5,821,200.00
06A Adaptive Management & Monitoring	1.0000	EA		5,821,200.00	5,821,200.00
10 Raccoon Is. Terminal Groin	1.0000	EA		1,775,750.53	1,788,107.35
17 Beach Replenishment	1.0000	EA		182,015,008.24	229,272,035.96
02 Beach and Marsh Construction	1.0000	EA		182,015,008.24	229,272,035.96
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	12,399,710.29	15,946,529.93
02A-1 Whiskey Island Plan C	1.0000	EA	Dredge Contractor	3,005,836.79	3,865,627.92
02A-1-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	2,856,996.60	3,674,213.41
02A-1-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	398,087.86	511,957.13
02A-1-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	2,458,908.74	3,162,256.28
02A-1-1-2-1 Beach/Dune	1.0000	EA	Dredge Contractor	1,610,496.62	2,071,163.92
02A-1-1-2-2 Marsh	34,288.0000	LF	Dredge Contractor	848,412.12	1,091,092.36
02A-2 Trinity Island Plan C	1.0000	EA	Dredge Contractor	3,869,181.33	4,975,923.98
02A-2-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	3,720,341.14	4,784,509.47
02A-2-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	930,182.19	1,196,251.99
02A-2-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	2,790,158.94	3,588,257.47
02A-2-1-2-1 Beach/Dune	1.0000	EA	Dredge Contractor	2,443,780.91	3,142,801.28
02A-2-1-2-2 Marsh	34,288.0000	LF	Dredge Contractor	346,378.04	445,456.19
02A-3 Raccoon Island Plan E	1.0000	EA	Dredge Contractor	2,854,582.97	3,671,109.38
02A-3-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	2,705,742.78	3,479,694.87
02A-3-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	574,543.65	738,886.42
02A-3-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	2,131,199.13	2,740,808.45
02A-3-1-2-1 Beach/Dune	1.0000	EA	Dredge Contractor	1,607,075.17	2,066,763.80
02A-3-1-2-2 Marsh	34,288.0000	LF	Dredge Contractor	524,123.96	674,044.65
02B Whiskey Island Plan C	1.0000	EA	Dredge Contractor	55,393,736.99	70,204,825.20
02B-1 Beach/Dune Fill	1.0000	EA	Dredge Contractor	49,208,510.99	63,284,139.31
02B-2 Marsh Fill	1.0000	EA	Dredge Contractor	2,571,173.75	3,306,633.64

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
02B-3 Access Channel	1.0000	EA	Historic Bid Tab Contractor	626,450.00	626,450.00
02B-4 Containment Dike	1.0000	EA	Historic Bid Tab Contractor	1,327,620.00	1,327,620.00
02B-5 Sand Fencing	1.0000	EA	Historic Bid Tab Contractor	293,718.75	293,718.75
02B-6 Vegetative Plantings	1.0000	EA	Historic Bid Tab Contractor	1,366,263.50	1,366,263.50
02B-6-1 Plantings - TY1	1.0000	EA	Historic Bid Tab Contractor	779,938.00	779,938.00
02B-6-2 Plantings - TY2	1.0000	EA	Historic Bid Tab Contractor	399,650.75	399,650.75
02B-6-3 Plantings - TY3	1.0000	EA	Historic Bid Tab Contractor	186,674.75	186,674.75
02C Trinity Island Plan C	1.0000	EA	Dredge Contractor	57,189,158.00	71,170,477.78
02C-1 Beach/Dune Fill	1.0000	EA	Dredge Contractor	28,411,622.80	36,538,498.30
02C-2 Marsh Fill	1.0000	EA	Dredge Contractor	20,467,184.75	26,321,629.03
02C-3 Access Channel	1.0000	EA	Historic Bid Tab Contractor	1,975,145.00	1,975,145.00
02C-4 Containment Dike	1.0000	EA	Historic Bid Tab Contractor	2,395,522.50	2,395,522.50
02C-5 Sand Fencing	1.0000	EA	Historic Bid Tab Contractor	364,552.50	364,552.50
02C-6 Vegetative Plantings	1.0000	EA	Historic Bid Tab Contractor	3,575,130.45	3,575,130.45
02C-6-1 Plantings - TY1	1.0000	EA	Historic Bid Tab Contractor	1,290,716.00	1,290,716.00
02C-6-2 Plantings - TY2	1.0000	EA	Historic Bid Tab Contractor	1,474,984.45	1,474,984.45
02C-6-3 Plantings - TY3	1.0000	EA	Historic Bid Tab Contractor	809,430.00	809,430.00
02D Raccoon Island Plan E	1.0000	EA	Dredge Contractor	57,032,402.96	71,950,203.06
02D-1 Beach/Dune Fill	1.0000	EA	Dredge Contractor	30,752,877.98	39,549,447.34
02D-2 Marsh Fill	1.0000	EA	Dredge Contractor	21,399,872.39	27,521,103.12
02D-3 Access Channel	1.0000	EA	Historic Bid Tab Contractor	1,062,925.00	1,062,925.00

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
02D-4 Containment Dike	1.0000	EA	Historic Bid Tab Contractor	1,738,485.00	1,738,485.00
02D-5 Sand Fencing	1.0000	EA	Historic Bid Tab Contractor	198,022.50	198,022.50
02D-6 Vegetative Plantings	1.0000	EA	Historic Bid Tab Contractor	1,880,220.10	1,880,220.10
02D-6-1 Plantings - TY1	1.0000	EA	Historic Bid Tab Contractor	512,091.00	512,091.00
02D-6-2 Plantings - TY2	1.0000	EA	Historic Bid Tab Contractor	866,287.55	866,287.55
02D-6-3 Plantings - TY3	1.0000	EA	Historic Bid Tab Contractor	501,841.55	501,841.55
30 Planning, Engineering & Design	1.0000	EA		11,553,007.17	11,553,007.17
31 Construction Management	1.0000	EA		11,553,007.17	11,553,007.17
Contract #2 - Initial Restoration - Timbalier Island	1.0000	EA		198,833,582.13	245,062,709.83
01 Lands & Damages	1.0000	EA		382,308.00	382,308.00
17 Beach Replenishment	1.0000	EA		176,207,601.23	222,436,728.93
02 Beach and Marsh Construction	1.0000	EA		176,207,601.23	222,436,728.93
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	9,530,173.24	12,256,189.00
02A-1 Timbalier Island Plan E	1.0000	EA	Dredge Contractor	7,002,920.04	9,006,038.97
02A-1-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	6,854,079.85	8,814,624.45
02A-1-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	831,551.06	1,069,408.36
02A-1-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	6,022,528.79	7,745,216.09
02A-1-1-2-1 Beach/Dune	1.0000	EA	Dredge Contractor	2,485,331.53	3,196,237.07
02A-1-1-2-2 Marsh #1	34,288.0000	LF	Dredge Contractor	2,691,282.64	3,461,098.53
02A-1-1-2-3 Marsh #2	34,288.0000	LF	Dredge Contractor	845,914.62	1,087,880.49
02B Timbalier Island Plan E	1.0000	EA	Dredge Contractor	166,677,427.99	210,180,539.94
02B-1 Beach/Dune Fill	1.0000	EA	Dredge Contractor	80,949,713.28	104,104,611.77
02B-2 Marsh Fill	1.0000	EA	Dredge Contractor	71,137,519.61	91,485,733.07
02B-3 Access Channel	1.0000	EA	Historic Bid Tab Contractor	3,394,900.00	3,394,900.00
02B-4 Containment Dike	1.0000	EA	Historic Bid Tab Contractor	4,096,837.50	4,096,837.50

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
02B-5 Sand Fencing	1.0000	EA	Historic Bid Tab Contractor	575,656.25	575,656.25
02B-6 Vegetative Plantings	1.0000	EA	Historic Bid Tab Contractor	6,522,801.35	6,522,801.35
02B-6-1 Plantings - TY1	1.0000	EA	Historic Bid Tab Contractor	1,994,593.00	1,994,593.00
02B-6-2 Plantings - TY2	1.0000	EA	Historic Bid Tab Contractor	2,897,526.40	2,897,526.40
02B-6-3 Plantings - TY3	1.0000	EA	Historic Bid Tab Contractor	1,630,681.95	1,630,681.95
30 Planning, Engineering & Design	1.0000	EA		11,121,836.45	11,121,836.45
31 Construction Management	1.0000	EA		11,121,836.45	11,121,836.45
Contract #3 - TY10 Terminal Groin O&M	1.0000	EA		773,514.78	784,322.71
01 Lands & Damages	1.0000	EA		50,000.00	50,000.00
10 Raccoon Is. Terminal Groin O&M	1.0000	EA		601,127.66	611,935.59
30 Planning, Engineering & Design	1.0000	EA		61,193.56	61,193.56
31 Construction Management	1.0000	EA		61,193.56	61,193.56
Contract #4 - Renourishment TY20 - Whiskey Island	1.0000	EA		63,368,614.28	78,770,706.24
01 Lands and Damages	1.0000	EA		50,000.00	50,000.00
17 Beach Replenishment	1.0000	EA	Dredge Contractor	56,162,186.44	71,564,278.40
02 Beach Construction	1.0000	EA	Dredge Contractor	56,162,186.44	71,564,278.40
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	4,637,327.69	5,963,791.34
02A-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	2,091,959.31	2,690,344.44
02A-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	715,611.29	920,305.12
02A-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	1,376,348.01	1,770,039.32
02B Whiskey Island Renourishment	1.0000	EA	Dredge Contractor	51,524,858.74	65,600,487.06
02B-1 Beach/Dune Fill Renourishment	1.0000	EA	Dredge Contractor	49,208,510.99	63,284,139.31
02B-2 Access Channel Renourishment	1.0000	EA	Historic Bid Tab Contractor	170,000.00	170,000.00
02B-3 Containment Dike Renourishment	1.0000	EA	Historic Bid Tab Contractor	940,695.00	940,695.00
02B-4 Sand Fencing Renourishment	1.0000	EA	Historic Bid Tab Contractor	293,718.75	293,718.75

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
02B-5 Vegetative Plantings Renourishment	1.0000	EA	Historic Bid Tab Contractor	911,934.00	911,934.00
02B-5-1 Plantings - TY21	1.0000	EA	Historic Bid Tab Contractor	779,938.00	779,938.00
02B-5-2 Plantings - TY22	1.0000	EA	Historic Bid Tab Contractor	131,996.00	131,996.00
30 Planning, Engineering & Design	1.0000	EA		3,578,213.92	3,578,213.92
31 Construction Management	1.0000	EA		3,578,213.92	3,578,213.92
Contract #5 - Renourishment TY25 - Trinity Island	1.0000	EA		43,301,179.77	53,368,636.49
01 Lands and Damages	1.0000	EA		50,000.00	50,000.00
17 Beach Replenishment	1.0000	EA	Dredge Contractor	38,404,030.99	48,471,487.71
02 Beach Construction	1.0000	EA	Dredge Contractor	38,404,030.99	48,471,487.71
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	5,353,824.07	6,885,234.72
02A-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	2,776,201.68	3,570,307.87
02A-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	907,705.46	1,167,346.01
02A-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	1,868,496.22	2,402,961.87
02B Trinity Island Renourishment	1.0000	EA	Dredge Contractor	33,050,206.92	41,586,252.98
02B-1 Beach/Dune Fill Renourishment	1.0000	EA	Dredge Contractor	29,842,086.42	38,378,132.48
02B-2 Access Channel Renourishment	1.0000	EA	Historic Bid Tab Contractor	170,000.00	170,000.00
02B-3 Containment Dike Renourishment	1.0000	EA	Historic Bid Tab Contractor	1,175,580.00	1,175,580.00
02B-4 Sand Fencing Renourishment	1.0000	EA	Historic Bid Tab Contractor	364,552.50	364,552.50
02B-5 Vegetative Plantings Renourishment	1.0000	EA	Historic Bid Tab Contractor	1,497,988.00	1,497,988.00
02B-5-1 Plantings - TY26	1.0000	EA	Historic Bid Tab Contractor	1,290,716.00	1,290,716.00
02B-5-2 Plantings - TY27	1.0000	EA	Historic Bid Tab Contractor	207,272.00	207,272.00
30 Planning, Engineering & Design	1.0000	EA		2,423,574.39	2,423,574.39
31 Construction Management	1.0000	EA		2,423,574.39	2,423,574.39
Contract #6 - Renourishment TY30 - Raccoon & Timbalier Islands	1.0000	EA		33,373,250.54	40,011,698.19
01 Lands and Damages	1.0000	EA		432,308.00	432,308.00

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
17 Beach Replenishment	1.0000	EA	Dredge Contractor	29,342,816.16	35,981,263.81
02 Beach Construction	1.0000	EA	Dredge Contractor	29,342,816.16	35,981,263.81
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	7,883,914.63	10,139,033.70
02A-1 Timbalier Island Renourishment	1.0000	EA	Dredge Contractor	3,466,963.34	4,458,655.35
02A-1-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	3,318,123.15	4,267,240.84
02A-1-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	832,791.62	1,071,003.77
02A-1-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	2,485,331.53	3,196,237.07
02A-2 Raccoon Island Renourishment	1.0000	EA	Dredge Contractor	1,978,036.09	2,543,834.57
02A-2-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	1,829,195.90	2,352,420.05
02A-2-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	433,240.83	557,165.26
02A-2-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	1,395,955.07	1,795,254.79
02B Timbalier Island Renourishment	1.0000	EA	Dredge Contractor	8,568,697.37	9,610,358.46
02B-1 Beach/Dune Fill Renourishment	1.0000	EA	Dredge Contractor	3,641,655.62	4,683,316.71
02B-2 Access Channel Renourishment	1.0000	EA	Historic Bid Tab Contractor	170,000.00	170,000.00
02B-3 Containment Dike Renourishment	1.0000	EA	Historic Bid Tab Contractor	1,861,492.50	1,861,492.50
02B-4 Sand Fencing Renourishment	1.0000	EA	Historic Bid Tab Contractor	575,656.25	575,656.25
02B-5 Vegetative Plantings Renourishment	1.0000	EA	Historic Bid Tab Contractor	2,319,893.00	2,319,893.00
02B-5-1 Plantings - TY31	1.0000	EA	Historic Bid Tab Contractor	2,007,051.00	2,007,051.00
02B-5-2 Plantings - TY32	1.0000	EA	Historic Bid Tab Contractor	312,842.00	312,842.00
02C Raccoon Island Renourishment	1.0000	EA	Dredge Contractor	12,890,204.16	16,231,871.64
02C-1 Beach/Dune Fill Renourishment	1.0000	EA	Dredge Contractor	11,120,765.66	14,301,755.31
02C-2 Access Channel Renourishment	1.0000	EA	Historic Bid Tab Contractor	170,000.00	170,000.00
02C-3 Containment Dike Renourishment	1.0000	EA	Historic Bid Tab Contractor	839,685.00	839,685.00
02C-4 Sand Fencing Renourishment	1.0000	EA	Historic Bid Tab Contractor	198,022.50	198,022.50
02C-5 Vegetative Plantings Renourishment	1.0000	EA	Dredge Contractor	561,731.00	722,408.83

Description	Quantity	UOM	Contractor	DirectCost	ContractCost
02C-5-1 Plantings - TY31	1.0000	EA	Dredge Contractor	474,717.00	610,505.30
02C-5-2 Plantings - TY32	1.0000	EA	Dredge Contractor	87,014.00	111,903.53
30 Planning, Engineering & Design	1.0000	EA		1,799,063.19	1,799,063.19
31 Construction Management	1.0000	EA		1,799,063.19	1,799,063.19
Contract #7 - Renourishment TY40 - Whiskey Island	1.0000	EA		49,864,883.63	61,846,340.47
01 Lands and Damages	1.0000	EA		50,000.00	50,000.00
17 Beach Replenishment	1.0000	EA	Dredge Contractor	44,197,034.49	56,178,491.33
02 Beach Construction	1.0000	EA	Dredge Contractor	44,197,034.49	56,178,491.33
02A Mobilization / Demobilization	1.0000	EA	Dredge Contractor	4,319,804.27	5,555,443.35
02A-1 Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	1,774,435.88	2,281,996.45
02A-1-1 Shore Pre-layout/Pick-up Pipeline	1.0000	EA	Dredge Contractor	398,087.86	511,957.13
02A-1-2 Submerged Pre-layout/Pick-up Pipeline	62,908.0000	LF	Dredge Contractor	1,376,348.01	1,770,039.32
02B Whiskey Island Renourishment (Plan B)	1.0000	EA	Dredge Contractor	39,877,230.22	50,623,047.98
01 Beach/Dune Fill Renourishment	1.0000	EA	Dredge Contractor	37,567,466.22	48,313,283.98
02 Access Channel Renourishment	1.0000	EA	Historic Bid Tab Contractor	170,000.00	170,000.00
03 Containment Dike Renourishment	1.0000	EA	Historic Bid Tab Contractor	935,655.00	935,655.00
04 Sand Fencing Renourishment	1.0000	EA	Historic Bid Tab Contractor	292,175.00	292,175.00
05 Vegetative Plantings Renourishment	1.0000	EA	Historic Bid Tab Contractor	911,934.00	911,934.00
05a Plantings - TY41	1.0000	EA	Historic Bid Tab Contractor	779,938.00	779,938.00
05b Plantings - TY42	1.0000	EA	Historic Bid Tab Contractor	131,996.00	131,996.00
30 Planning, Engineering & Design	1.0000	EA	Dredge Contractor	2,808,924.57	2,808,924.57
31 Construction Management	1.0000	EA	Dredge Contractor	2,808,924.57	2,808,924.57