

**ROCK HARBOR DREDGING PROJECT
DRAFT
ENGINEER'S CONSTRUCTION COST ESTIMATE**

Mechanical Dredging with Offshore Disposal at Cape Cod Bay Disposal Site (SILT) and Hydraulic Dredging (Sand) with trucking for Beach Nourishment					
Item No.	Quantity		Item Description	Unit Price	Total
1	65	EA	Timber Pile Removal/Reinstallation	\$ 1,350.00	\$ 87,750.00
2	1	LS	Dredge Mob/DeMob	\$ 180,000.00	\$ 180,000.00
3	25,387	CY	Mechanical Dredging/Offshore Disposal CCBDS (SILT)	\$ 40.00	\$ 1,015,480.00
TOTAL ESTIMATED COST (MECHANICAL DREDGE)					\$ 1,283,230.00

NOTE: Dredge volumes include 1' overdredge

Cost per CY
\$50.547

Hydraulic Dredging, Dewatering And Trucking To Beach Nourishment Sites (SAND)					
Item No.	Quantity		Item Description	Unit Price	Total
4	13,221	CY	Barnstable County Hydraulic Dredge, pump to parking lot	\$ 7.00	\$ 92,547.00
5	13,221	CY	Create Dewatering Area on parking lot	\$ 8.50	\$ 112,378.50
6	13,221	CY	Excavator to load trucks at dewatering site for transport to beach	\$ 6.50	\$ 85,936.50
7	3,305	CY	Trucking to Thumpertown Beach	\$ 6.00	\$ 19,830.00
8	3,305	CY	Trucking to Campground Beach	\$ 6.00	\$ 19,830.00
9	3,305	CY	Trucking to Cooks Brook Beach	\$ 6.00	\$ 19,830.00
10	3,306	CY	Trucking to South Sunken Meadow Beach	\$ 6.00	\$ 19,836.00
11	13,221		Spreading sand on Beaches	\$ 5.00	\$ 66,105.00
TOTAL ESTIMATED COST-HYDRAULIC DREDGE AND BEACH NOURISHMENT					\$ 436,293.00

Cost per CY
\$33.000

BID SUMMARY TABULATION	
MECHANICAL DREDGEING AND PILE REMOVAL	\$ 1,283,230.00
HYDRAULIC DREDGING AND BEACH NOURISHMENT	\$ 436,293.00
TOTAL	\$ 1,719,523.00

ASSUMPTIONS:

- Item 1 Slighter higher cost than was awarded for the Barnstable Inner Harbor dredge project 2012
- Item 2 Estimate based on Barnstable Inner Harbor dredge project 2012
- Item 3 Equals price awarded for Barnstable Inner Harbor dredge project 2012
- Item 4 To be confirmed by Barnstable County Dredge, is consistent with Barnstable Inner Harbor dredge 2012
- Item 5,6 Estimate based on Barnstable Inner Harbor dredge project 2012
- Item 7-10 See "Trucking Costs" spreadsheet
- Item 11 To be determined, can Eastham do the work?
The dewatering area is assumed to be a excavated pit with berms in the area of the Eastham boat ramp parking lot. It will require reconstruction of the parking lot to occur after the dredging in the fall of 2014. I assumed a contractor will do the construction of the dewatering area, loading the trucks, transportation to the 4 beaches and spreading the sand. If the Town could do it there would be significant savings.

TOTAL
38 608