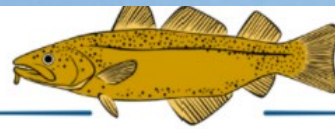


Barnstable County

REGIONAL GOVERNMENT OF CAPE COD



BARNSTABLE COUNTY

DREDGE

**Update for the BC Coastal Resource Subcommittee
Ken Cirillo, Director, Barnstable County Dredge
April 20, 2022**



Barnstable County Dredge Department Schedule For 2021 - 2022													
Project Order	TOWN	Dredge Site	Est. Vol. (CY)	Pre-Dredge Volume (CY)	Receiving Site	Pipeline (LF)	Booster (Y/N)	TOY's	Planned Start Date	Pre-Dredge Estimated Volume	Post-Dredge Actual Volume	Actual Start Date	Actual End Date
	Dredge Cod Fish II							Dredge Cod Fish II					
1	Mashpee	Inner Channel	4,000	2,100	Poppenesett Spit	3,000	N	CLOSE DTOY 1/14	09/27/21	2,117	1,610	10/12/21	10/16/21
2		1916 Channel	5,000	3,700	Poppenesett Spit	4,000	N	CLOSE DTOY 1/14	10/05/21	3,688	3,454	10/18/21	10/29/21
3	Truro	Pamet Harbor/Inlet & Approach Ch	7,000		Corn Hill Beach	1,550	N	CLOSE DTOY 1/31	10/14/21	2,428	1,127	12/9/21	12/30/21
4		Pamet Harbor Mooring Basin	13,000		Corn Hill Beach	3,000	N	CLOSE DTOY 1/31	10/25/21	3,069	2,172	12/9/21	12/30/21
5	Provincetown	MacMillan Pier Central Fairway	Project Postponed - Additonal Permitting Required							Project Postponed - Additonal Permitting			
6	Dennis	Sesuit Harbor	15,000		Cold Storage Beach	1,600	N	CLOSE DTOY 1/31	11/20/21	13,278	16,303	1/12/22	1/31/22
7	Barnstable	Barnstable Harbor Outer Entrance	Project Cancelled - Disposal Area No Longer Useable							Project Cancelled - Disposal Area No Longer Useable			
8	Falmouth	Megansett	Project Postponed - Additonal Permitting Required							Project Postponed - Add'l Permitting Req.			
9		Inner Harbor	Project Postponed - Only ~1,500 CY Available - No Shoaling Present							Project Postponed - Only ~1,500 CY Available No Shoaling Present			
10		Eel River Approach Channel	1,500		Menauhant	2,000	N	*Note: Town requesting dredging/nourishment late May/early June; Will require TOY waiver with No DTOY 1/15-6/15 & NTOY 5/1-7/31	Dates TBD	1,500			
11		Green Pond Approach Channel	2,000		Acapekett Beach	2,000	N			2,000			
12		Great Pond - Inside	7,500		Inn Seasons Beach	2,000	N			7,500			
13		Great Pond Approach Channel	500		Inn Seasons Beach	2,000	N			1,000			

Project Order	TOWN	Dredge Site	Est. Vol.	Pre-Dredge Volume (CY)	Receiving	Pipeline	Booster	TOY's	Planned Start Date	Pre-Dredge Estimated Volume	Post-Dredge Actual Volume	Actual Start Date	Actual End Date
			(CY)		Site	(LF)	(Y/N)						
Dredge Sand Shifter				Dredge Sand Shifter				Dredge Sand Shifter					
1	Yarmouth	Project Postponed - Comprehensive 10 Year Permit Pending Renewal							09/08/21	Project Postponed - Comprehensive 10 Year Permit Pending Renewal			
2		Project Postponed - Comprehensive 10 Year Permit Pending Renewal								09/15/21	Project Postponed - Comprehensive 10 Year Permit Pending Renewal		
3	Chatham	Mill Creek	11,000		Forest & Pleasant Beach	3,500	N	CLOSE DTOY 3/30	09/13/21		11,000	7,410	9/17/21
4	Chatham	Pleasant Bay/Strong Island Channel	12,000	11,000	Scatteree Beach	5,000	N	CLOSE DTOY 1/14	09/27/21	12,000	14,720	11/5/21	12/1/21
5	Yarmouth	Project Postponed - Comprehensive 10 Year Permit Pending Renewal						CLOSE DTOY 1/14	10/20/21	Project Postponed - Comprehensive 10 Year Permit Pending Renewal			
6		Project Postponed - Comprehensive 10 Year Permit Pending Renewal						CLOSE DTOY 1/14	10/28/21				
7		Project Postponed - Comprehensive 10 Year Permit Pending Renewal						CLOSE DTOY 1/14	11/05/21				
8	Bourne	Pocasset River	4,000		Monument Beach/Truck to Landfill	7,832	N	CLOSE DTOY 1/14	12/01/21	4,000	3,172	12/18/21	2/5/22
9	Mashpee	Poppenesett Approach Ch	9,900		Poppenesett Spit	6,600	N	CLOSE DTOY 3/31	12/20/21	5,593	4,860	2/24/2022	3/21/2022
10	Chatham	Stage Harbor	30,000		Cockle Cove & Hardings Beach	11,500	Y	CLOSE DTOY 3/31	01/15/21	40,000	18,346	3/9/22	3/26/22
11	Harwich	Allen Harbor	8,000		Grey Neck & Pleasant St. and Private Beaches	3,500	N	OPEN DTOY 5/1	05/02/21				
12		Wychmere Harbor	3,000		Wychmere Pines	3,500	N	OPEN DTOY 6/1	06/01/21				

Postponed & Cancelled Projects

Town	Project	Towns Estimate	Pre-Dredge Volume	Status	Revenue	Rate
Barnstable	Inner Channel	4,000		Cancelled	\$ 58,000.00	Booster \$14.50/CY
Cancelled due to disposal area no longer available as it has naturally developed into an upland marsh. Project will now be done by a private contractor with a mechanical dredge.						
Yarmouth	Englewood Channel	2,000		Postponed	\$ 29,000.00	Booster \$14.50/CY
Englewood Channel postponed as the town's 10 year Comprehensive Maintenance Dredge & Beach Nourishment Permit is not renewed.						
	Pine Island Channel	2,000		Postponed	\$ 29,000.00	Booster \$14.50/CY
Pine Island Entrance Channel postponed as the town's 10 year Comprehensive Maintenance Dredge & Beach Nourishment Permit is not renewed.						
	Bass River	11,500		Postponed		
Bass River postponed as the town's 10 year Comprehensive Maintenance Dredge & Beach Nourishment Permit is not renewed.					\$ 166,750.00	Booster \$14.50/CY
Provincetown	Central Fairway/Bulkhead Area	5,000	1,820	Postponed	\$ 18,200.00	Non-Booster \$10/CY
The dredge material cannot be used for beach nourishment and the town needs additional time to evaluate their options.						
Falmouth	Megansett Approach Channel	3,000		Postponed	\$ 30,000.00	Non-Booster \$10/CY
Permit not available.						
Total Revenue:					\$ 330,950.00	

Barnstable County Dredge – Project Statistics YTD 2021 – 2022 Dredge Season

Cubic Yards dredged:

73,174

Number of towns with dredge projects completed this season

5

Smallest project (volume), Inner Channel, Mashpee

1,610 CY

Largest project (volume), Stage Harbor Approach Channel, Chatham

18,346 CY

Longest run of pipe this season; Harding's Beach to Stage Harbor Approach Channel, Chatham

1.3 miles or 6,711'



UPDATE: Estimated Delivery is now March – April Ordered 11/8/21

**Barnstable County
GIW Pump Parts**

- Pump Shell
\$38,388.00
12-14 Weeks
- Impeller, Vane, 4.5" Plug
\$10,765.00
10-12 Weeks
- Bearing Assembly, 5-7/16" w/ 4.5" Threads
\$31,200.00
6-10 Weeks
- Shafting Box Assembly
Includes Housing, Wear Plates, Lantern Ring, & Packing
\$5,080.00
12-14 Weeks
- Wet End Gasket Kit
Includes All Gaskets & O-Rings to Install Shaft Sleeve, Impeller, Shell, & Suction Liner
\$125.00

Price
Delivery
Terms
Condition of Sale
Payment Conditions

VENDOR PHONE NUMBER		VENDOR FAX NUMBER		REQUISITION NUMBER		DELIVERY REFERENCE			
706-722-0303		706-722-0505		22001486					
DATE ORDERED		VENDOR NUMBER		DATE REQUIRED		PO Requisitioner Name		DEPARTMENT/LOCATION	
11/08/2021		21147				Priscilla Ellis		DREDGE	
NOTES									
ITEM #		DESCRIPTION / PART #				QTY	UOM	UNIT PRICE	EXTENDED PRICE
1		Spare parts for dredge GL Account: 0252503 - 5301				1.0	EACH	\$85,558.00	\$85,558.00

Ellicott 670 – Cod Fish I

County's original dredge purchased in 1997

Was near end of life but was converted for use as a second Booster Station for last season giving us additional pumping capacity.

Used as second Booster Station for the Barnstable DNSI project, and for the main Booster Station for the Little Bay, Bourne and Popponesset Approach Channel, Mashpee projects.

Declared surplus.

Two Options Available To Sell The Cod Fish I:

1. Use the County's online auction company, [govdeals.com](https://www.govdeals.com). This is the same company that we used to sell all of the surplus equipment that we had in the Dennis yard. Commission is paid by buyer, no fees to County.
2. Use a former company that Ellicott established, [dredgecentral.com](https://www.dredgecentral.com). They take a 10% commission.

Pursuing Option 1.

Awaiting our Chief Procurement Office to post the sale of this before going live on [govdeals.com](https://www.govdeals.com)



As a reminder....

The new rates were unanimously approved by the Assembly of Delegates at the June 3rd, 2021 meeting.

Effective July 1, 2021 - FY22

- For projects that do not require a Booster Station, the current rate of **\$9.00** will increase to **\$10.00**
- For projects that do require a Booster Station: the current rate of **\$13.00** will increase to **\$14.50**

Effective July 1, 2022 - FY23

- For projects that do not require a Booster Station, the FY22 rate of **\$10.00** will increase to **\$12.00**
- For projects that do require a Booster Station: the current rate of **\$14.50** will increase to **\$18.00**

At the March, 2022 meeting of the BC Dredge Sub-Committee, an update on the financial status will be reviewed to determine if additional increases are needed and to discuss setting rates for FY24 and FY25 (all stakeholders agree that at least three years of rates are needed by each town).

Lots of opportunities for funding, and lots of work as well. The target groups for the Federal Infrastructure Funding should be our **MA Congressional Delegation as well as our Cape Legislative Delegation (and Mark Forest)**. Perhaps most importantly this could be the help we enlist from Seth Rolbein - CCCFA).

President Biden and U.S. Department of Transportation Announce Historic New Funding to Strengthen Port Infrastructure and Supply Chain Resiliency | MARAD

The U.S. Department of Transportation's Maritime Administration (MARAD) announced nearly \$450 million in newly available grant funding for port-related projects through the Port Infrastructure Development Program (PIDP)—by far the largest investment in the program ever. These grants can help ports expand capacity and improve the movement of goods through our supply chains.

Seaport Economic Council - <https://www.mass.gov/seaport-economic-council-programs-and-grants>, available and we are definitely qualified for these grants.

Federal Infrastructure Funds - <https://www.mass.gov/news/baker-polito-administration-outlines-bipartisan-infrastructure-law-funding-plans-for-massachusetts>

Federal ARPA Funds - Moving ahead through the County and AOD. How best can the BC Dredge Advisory Sub-Committee help? Formally request to the County and your AOD representative that they provide the 5 year Operating Budget as outlined in lieu of any rate increases after FY23?

TOWN	Dredge	Est. Vol.	Receiving	Pipeline	Booster
Barnstable	Cotuit Bay Entrance Channel & Cotuit Cut	15,000	Dead Neck	~9,000	Y
Bourne	Hen Cove	16,799	Hen Cove Beach		N
Chatham	Stage Harbor	30,000	Cockle Cove & Hardings Beach	11,500	Y
Dennis	Sesuit Harbor	15,000	Cold Storage Beach	1,600	N
Eastham	No Projects Planned				
Falmouth	Great Pond ²	1,500	Inn Seasons Beach		N
	Great Pond Interior ¹	2,000	?		N
	Megansett ³	3,000	Megansett Beach		N
	Green Pond ²	2,000	Acapesket Beach		N
	Falmouth Inner Harbor ²	2,000	Surf Beach		N
	Eel River Extension Channel ²	5,000	Menauhant Beach		N
	Waquoit Bay Inlet	3,000	South Cape Beach or Washburns Island		N
	Waquoit Bay Channel	10,000	Dewater In Mashpee, truck to Hyannis		Y
	Bournes Approach ¹	3,500	West Side Disposal on Menauhant Beach		N

Barnstable County Dredge Program - Draft Project Schedule for the 2022 - 2023 Season

TOWN	Dredge	Est. Vol.	Receiving	Pipeline	Booster
Harwich	Allen Harbor	8,000	Grey Neck; Earl Rd	3500	N
Mashpee	Popponessett Approach Channel	9,900	Poppenessett Spit	6600	Y
Orleans	No Projects Planned				
Provincetown	No Projects Planned				
Sandwich	No Projects Planned				
Truro	Pamet Harbor/Inlet & Approach Channel	7,000	Corn Hill Beach	2,600	N
Wellfleet					
Yarmouth	Bass River Approach Channel ³	4,000	Bass River Beach		N
	Bass River Entrance Channel ³	500	Bass River Beach		Y
	Bass River (N/S of RT 28 Bridge) ³	7,000	West Dennis Beach		Y
	Parker River Approach Channel	6,000	Seagull/Thatcher Beach		N
	Pine Island Cove Entrance ³	2,000	Colonial Acres Beach		Y
	Mill Creek Channel (Lewis Bay)	500	Colonial Acres Beach		N
	Englewood ³	2,000	Colonial Acres Beach		Y

Barnstable County Dredge Program - Draft Project Schedule for the 2022 - 2023 Season

Barnstable County Dredge Program - Draft Project Schedule for the 2022 - 2023 Season

¹ New projects					
² To be surveyed to determine if dredging is needed.					
³ Projects from FY22					
				Total Cubic Yards	
		TOTALS (CY)	No Booster	155,699	With Booster
		Cubic Yards	79,299		76,400
		Less 20%	63,439		61,120
Rates Effective July 1, 2022				Total Revenue	
No Booster	\$ 12.00		\$ 761,270.40		\$ 1,100,160.00
With Booster	\$ 18.00			\$ 1,861,430.40	
				Modified with Barnstable	

FY23 Budget	\$ 2,031,950.00
	\$ 1,861,430.40
	\$ (170,519.60)

	Changes:								
	Barnstable reduced projects from 37,200 (less 20% 29,760) to 9,000 (less 20% 7,200) from \$357,120 to \$129,600 = \$227,520								
				80%					
Modified	15000	\$	270,000.00	\$	216,000.00				
Original	37200	\$	446,400.00	\$	357,120.00				

County Dredge Website: <https://www.barnstablecounty.org/dredge/>



- The Dredge Report: Not posting weekly updates, the plan is to restart by 5/1/22.
- The County Dredge Program in the News; Up to date.
- Dredge Sub-Committee Meetings; Up to date.
- Project Viewer; Up to date but needs some minor corrections.

