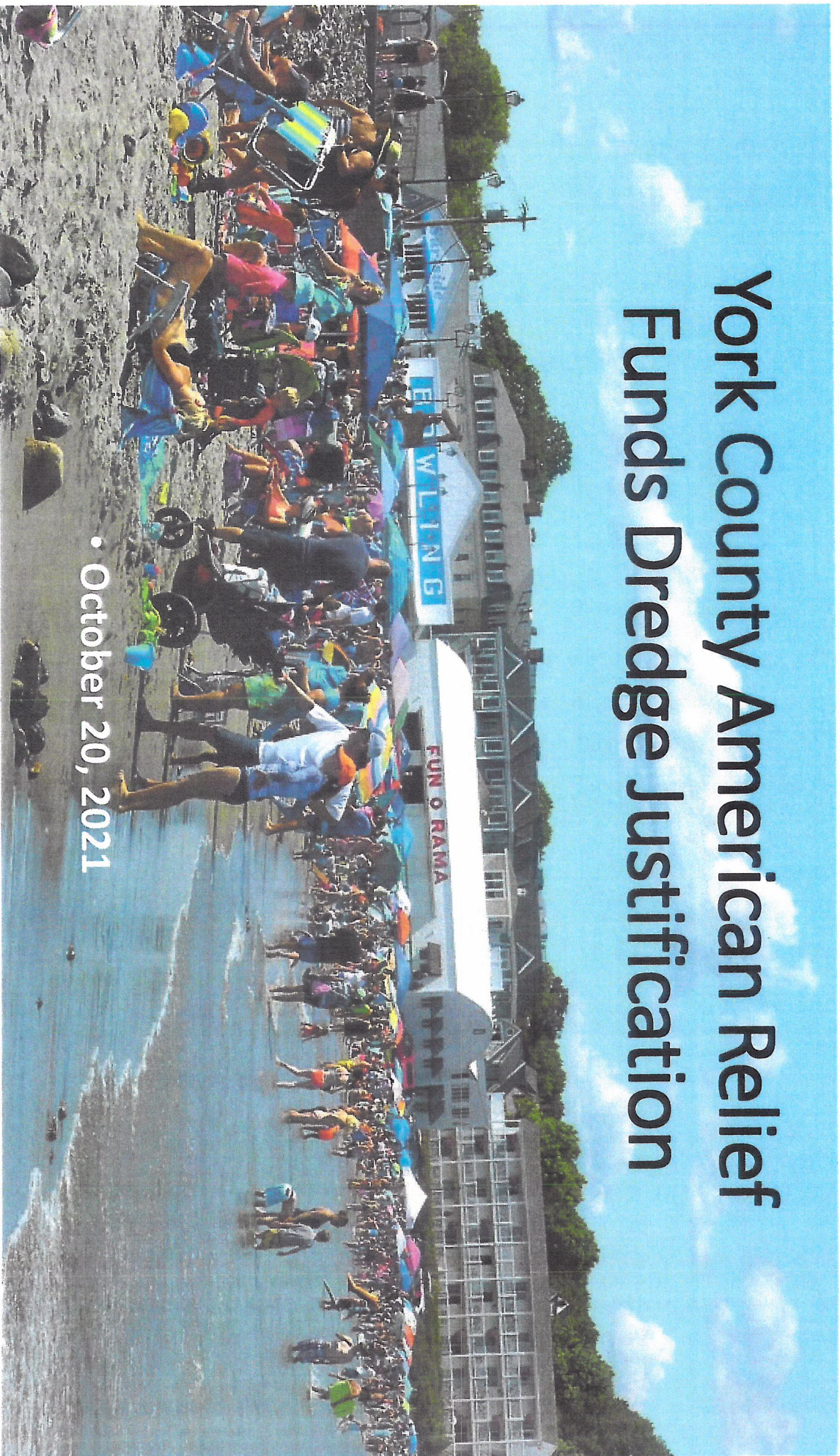


York County American Relief Funds Dredge Justification



• October 20, 2021

\$ 1.8 million for Infrastructure/Dredge Purchase Justification

- **Multi-community dredge needs in York County**
- **\$\$ Revenue Impact: Beach Improvement directly benefits all coastal communities, as well as inland community beach enjoyment, employment**
- **Dredge Equipment Purchase Only: No County commitment required to operate and employ for dredge**
- **Direct County Government Action on Climate Change**
- **Eliminates capital costs of dredge onto individual communities**
- **Barnstable County, Cape Cod provides the template for future County/ Regional governance**

York County Dredge Need

- Most of Maine sand beaches are located in York and Cumberland Counties
- All Maine sand beaches are eroding and require replenishment
- Dry beach availability is an important economic/tourist attraction factor for Southern Maine (more than \$500 million annually for York County alone)
 - 45% Maine visitors go to beaches
- Army Corps is not reliable for harbor dredging -schedule – 20 year scheduled dredge in Saco took 20 years to occur
- Army Corps does not do beach replenishment except as part of a harbor dredge

Maine Beach Erosion Issues

York County

- York
 - Seapoint
 - Cresant
- Ogunquit
- Wells
 - Laudham
 - Drake's Island
 - Wells
- Kennebunkport
 - Goose Rocks
- Bidddeford
 - Hills
- Kennebunk
 - Goochs
 - Parsons
 - Cresant & Surf
- Saco
 - Camp Ellis
 - Ferry Beach & State Park
- Old Orchard
 - Ocean
- West Grand

Cumberland County

- Scarborough
 - Higgins
 - Scarborough
 - Ferry-Western
 - Pine Point
 - East Grand
- Cape Elizabeth
 - Cresant
 - Kettle Cove
- South Portland
 - Willard

Maine Federal Navigation Channels

Municipality	Last 2 Dredges	Services	Last Dredge Cu Yds.
Saco	1992 / 2015	4 private marinas, public marina, 3 boat ramps, public pier, more than 200 commercial/recreational vessels	67,000
Kennebunkport	1975 / 2018	50 commercial & 30 recreational vessels	4,132
Kennebunk	2014 / 2016	68 moorings, 18 commercial, 12 charter, 200 – 300 recreational vessels	3,200
Wells	2014 / 2018	25 commercial, 15 charter, 150 recreational vessels	12,620
Ogunquit	1976 / 1994	74 moorings, 26 commercial, 6 charter, 200 recreational vessels	16,100
Kittery	2000 / 2012	Pepperell Cove – 39 commercial, 6 charter, 200 recreational vessels	14,323
Scarborough	2013 / 2015	50-60 moorings, 25-30 commercial, 15 seasonal charter vessels	116,325

York County Coastal Community Economic Impact

Impact

- York County/Beaches contribute more than \$500 million annually to Maine Summer Tourist Revenue

- York County Summer Tax Revenue by Year:

Year	Winter (N,D,J,F)	Summer (J,J,A,S)	Tourist Revenue	COVID
2019 - 2020	\$ 541,394,000	\$ 805,177,000	\$ 283,738,000	COVID
2018 - 2019	\$ 456,739,000	\$ 963,378,000	\$ 506,639,000	
2017 - 2018	\$ 520,119,000	\$1,048,589,000	\$ 528,470,000	
2016 - 2017	\$ 488,739,000	\$ 963,378,000	\$ 506,639,000	
2015 - 2016	\$ 421,694,000	\$ 906,941,000	\$ 485,247,000	

Data from Maine Economist website – Kittery, Kennebunk, Biddeford ESA

Ellicott 670 Dragon Suction Dredge



Ellicott 670 Dragon

- Dredge In Stock Now -- Cost \$1,516,000
- Shipping \$50,000, Support Boat \$234,000
- Successfully Used in Barnstable County (> 10 years)
- Averages 10 projects in 168 days
- Average Operations budget - \$ 706,000 (not requested from York County, see *proposed regional commission plan in packet*)
- Dredged Material cost – Averages 47% below market

Ellicott Quote (pg 1 of 2)

\$1,415,000

Tier 3 Ellicott 670 "DRAGON" Series Cutter Suction Dredge
per listed specifications, Ex Works Ellicott factory.

- Standard Features included with Dredge:
- Hull of three piece steel construction
- 14" suction pipe with fittings
- 14" discharge pipe
- 14" flap valve
- 42' digging depth
- 100 HP cutter module
- Caterpillar C18 engine
- Size 43 6-blade cutter

121980
Independent winch operated ladder hoist system
Two independent hydraulic swing winches
Cog belt driven hard iron dredge pump
Safety equipment including aluminum handrails,
3 life vests, 2 life rings and 2 fire extinguishers
Two sets of instruction manuals and parts books

- Cutter Selection (Choose):
- 134304 Size 43 six-blade plain edge basket cutter
 - 115255 Size 43 six-blade renewable edge tooth cutter
 - x 115245 Size 43 six-blade renewable plain edge cutter
 - 118584 Size 43 six-blade serrated edge cutter

Ellicott Quote (pg 2 of 2)

143858	Zinc Anode Installation for pontoons	\$1,833
144072	Crane, Stern Jib	\$5,667
143723	Crane, Pump Handling	\$11,667
109289	500 lb. Danforth anchors and one set of wire ropes including clips and thimbles	\$4,417
148753	Air conditioner/heater	\$9,492
154648	Signal, Navigational Mast Installed	\$11,655
	Dredge Positioning System includes Dredgepack	\$37,329
	Software, Hardware and Installation Only	
	Training & Travel Expenses Not Included	
	Services (Field Engineering):	
	Technical support for supervision of assembly, start-up, and crew training (including field service travel and living expenses) included for a period of five (5) days.	
	Enhanced training program	
	Extra days available at \$1,200 per calendar day plus expenses.	\$7,500
	Total Dredge & Options (items 1 through 3)	\$1,515,922
	Estimated Sales Tax (based on your location)	\$50,000
	Estimated Shipping (based on your location)	
	Support Boat (if not contracted in local area)	\$234,078
	Total Funding Request	\$1,800,000

Operational Costs (*NOT* being asked from

*County**)

• Dredge Supervisor	\$ 100,000
• Dredge Captain	75,000
• Dredge Leverman	65,000
• Maintenance Engineer	65,000
• Dredge Deckhands	<u>100,000</u>
•	\$ 430,000
• Ancillary	
• Maintenance	\$ 100,000
• Insurance	25,000
• Fuel (\$3/gal)	<u>151,000</u>
	<u>\$276,000</u>

*See Regional Commission Proposal in Packet. Data from SMPDC 2018 Report-Included in Packet

Summary

- Direct County impact upon economy & climate change with < 5% of York County \$40m allocation
- Infrastructure purchase only & proper category for ARF use
- Dredging performed tourist offseason Nov 15 to April 15 (151 days) due to migrating species- off season – shared among municipalities
- Dredge rates 38% to 68% below market from dredge ownership
- Accommodates small and large projects – up to 10 projects per year

And please note:

- **Operational concerns and discussions are ongoing, but really cannot be resolved until funding is found for the dredge equipment. Options include a private company, a host community; plus the county as Administrator**
- **York County Government dredge purchase makes a bold and important step, at \$0 local cost, in action for tourism, jobs and saving our shoreline environment.**

Data source: SMPDC- Examining the Feasibility of Purchasing and Operating Hydraulic Dredging Equipment in Southern Maine, July 2018, Attached in Packet

October 2021

A proposal for Shore and Dredge Management

Southern Maine Coastal Commission



The Need

- ❖ Shorelines in southern Maine are facing environmental issues that require a uniform response to utilize shared methodologies
- ❖ A larger support swath. Individual communities facing major issues will have less success if going alone as opposed to part of conglomerate
- ❖ The ability to manage projects such as dredging, sand replenishments and remedial actions such as protective barriers, dunes, etc.

The Strategy

- ❖ Step 1: The communities establish a regional shoreline commission by agreement pursuant to 30-a MRS 2201:

It is the purpose of this chapter to permit public agencies of the State or any adjoining state, including but not limited to municipalities, counties and school administrative units, and federal agencies and Indian tribes and their political subdivisions to make the most efficient use of their powers by enabling them to cooperate on a basis of mutual advantage and thereby to provide services and facilities within the State in a manner and pursuant to forms of governmental organization that will accord best with geographic, economic, population and other factors influencing the needs and development of communities.

- ❖ Step 2: Have the commission codified by the State of Maine legislature, similar to river corridor commissions pursuant to 30-A MRS section 4461. Example, the Saco River Corridor Commission: <http://src-maine.org>

Dredge Management

- ❖ Make up: Harbormasters, citizens, marine geologists and government liaison
- ❖ Storage and maintenance of equipment
- ❖ Host community: Saco
- ❖ Establish a self-sustaining enterprise management model with towns paying for dredging projects at a minimum 50% below the market rate
- ❖ Establish a panel of experts (Maine Geological, independent marine environmentalists, etc.) to scope and permit dredge projects

Dredge Management

- ❖ Annual meeting to determine next projects and hear requests for dredging
- ❖ Scheduling and procurement of equipment and staffing in conjunction with host municipality
- ❖ Maintain staffing to operate equipment in conjunction with manufacturer
- ❖ Work closely with Maine Geological Survey to track changes in sand levels and erosion
- ❖ Issue annual report

TOWN OF
SCARBOROUGH, MAINE



October 15, 2021

York County Commissioners
York County Government Building
45 Kennebunk Road
Alfred, ME 04002

Re: Dredge Equipment Purchase

Dear Commissioners:

Please accept this letter as confirmation of the Town of Scarborough's interest in a York County purchase of dredge equipment infrastructure. Harbor dredging and mitigating shoreline damage has been a regional priority for decades. Our working waterfront and tourism industries are heavily dependent on navigable waters and sandy beaches. Combined with climate change, dredging becomes even more vital to the southern Maine environment, as well as to our economy and workforce.

While Scarborough is not part of York County, we are part of the dynamic Saco Bay system. As such, we experience the need for periodic dredging of our rivers and harbors to remove sediment accumulated from the coastline to our south. Scarborough supported the Southern Maine Planning and Development Commission's 2018 feasibility study to assess local ownership of a dredge. Results of that study indicate that communities would likely experience significant cost savings and fewer delays if a locally-owned and operated dredge were available.

If a dredge is purchased and subsequently hosted by York County or a York County municipality, we would consider a pay-for-use arrangement as part of a regularly scheduled dredge program. We hope this opportunity will provide cost savings for the Saco Bay communities and allow us to continue to benefit from the economic opportunities afforded to us by our beautiful coast.

Thank you for your consideration of this worthwhile dredge.

Sincerely,

Thomas Hall
Thomas Hall,
Town Manager

We are Save Our Shores (SOS) Saco Bay, a 501(c)(4) issue advocacy group to mitigate shoreline damage of our beaches. Our request to you is a dredge purchase due to the sandy beaches of York County being pounded into submission. The \$40 million in funds going to York County through the American Rescue Plan is an opportunity to do something to stem the tide. The ask of \$1.8 million for a dredge, transport and support boat is less than 5% of the county allocation. A dredge purchased by the county is a huge first step to a Southern Maine coastal protection plan. Here are summary points of why the time is now to purchase a dredge:

- ✓ County action on Climate Change: We talk and talk, with study after study, with no tangible action on protection against rising sea level and coastal erosion. With no other obligation, a county purchase of a dredge sets the table for an action plan. Re-start, continuation of SMPDC regional planning of dredge operation: Communities have already begun the process of detailing dredging needs, prepare for future dredges, under the Southern Maine Planning Development Corporation (SMPDC) 2017-2018 analysis (included in packet)
 - ✓ ARP funds need to be decided/allocated now, and a dredge only represents <5% of county fund allocation, but benefiting potentially all coastal municipalities
- Further, we would like to counter some of the reasons to discourage a dredge purchase

- ✓ 'This is not an allowed use of ARP funds': ARP funds can be used for "infrastructure", more specifically "green infrastructure projects". Treasury's guidance states that these funds can be used for aid to impacted industries. "Aid to tourism, travel, hospitality, and other impacted industries that responds to the negative economic impacts of the COVID-19 public health emergency."
- ✓ York County does not operate to purchase and run a dredge: The opioid crisis was certainly not in the county's original formation and mission but rose to the challenge. A purchase of a dredge outside of the county budget funding could be the start of a new county led initiative, or the match lit for regional proactive action toward the climate crisis.
- ✓ 'This is the State's or municipality's problem': The county covers the most affected communities in Southern Maine, and not one municipality will purchase a dredge on their own. It is mostly a York County problem

A dredge would help move sand to badly eroded shoreline areas and opening channels and outlets to the ocean. We know beaches to our south have had long delayed Army Corps dredges, and there will be future delays in critical times ahead. In our immediate area, most Saco Bay beaches are losing sand at an alarming rate: more than 60 feet has been lost at Ferry Beach State Park since 2000. Camp Ellis Beach barely exists at high tide. Almost the entire southern coast is losing sand and the ramifications are far reaching. Goosefare Brook is clogged and creating a wastewater problem.

York County's beaches are the lifeline of the county's economy. Tourism brings in over half a billion dollars here. We all saw the damage to that economy caused by Covid-19. The loss of jobs and revenue from the pandemic may be an indication of future summers if something is not done. Without vital and healthy beaches that economy is in jeopardy. Take the sand from the beaches and take the beaches from York County and the tourist industry would be lost.

A dredge opens the door for a beach management plan to relocate sand where it came from. We can dredge areas of accretion and keep our waterways clear for boaters and fishermen. Furthermore, an opportunity exists to work with southern Cumberland County coastal areas. The Scarborough River channel is dredged at a cost \$5 million every five years. Higgins Beach is suffering noticeable erosion. Sand is the antithesis of erosion, and we need it - badly, desperately.

Thank you for your consideration. Included in this packet is our Powerpoint presentation of Dredge cost, the 2017-18 SMPDC study for regional dredge needs and use and a regional commission proposal once a dredge is purchased. There are also Letters of Interest from shoreline communities included or coming to you directly.

Kevin Roche

David Plavin

SOS Saco Bay

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info@sosacobay.com

207-712-9337