ENVIRONMENTAL NOTIFICATION FORM

For

10 Year Comprehensive Dredge Maintenance and Beach Nourishment Plan

Town of Edgartown, MA

May 29, 2009

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Environmental Notification Form

Commonwealth of Massachusetts Executive Office of Environmental Affairs ■ MEPA Office

For Office Use Only Executive Office of Environmental Affairs



Environmental Notification Form

EOEA No.: MEPA Analyst: Phone: 617-626-

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: 10 Year Comprehensive Mainten	ance Dre	dge and Bea	ch N	ourishmen	t Permit	
Street:	and bro	ago ana boa				
Municipality:Edgartown/Oak Bluffs		Watershed:	Nan	tucket Sou	ınd/Atlant	ic Ocean
Universal Tranverse Mercator Coord	inates:	Latitude:				
Oniversal Hanverse mereure		Longitude: S				cations
		Estimated completion date:6/ 2019				
Approximate cost: \$2,100,000		Status of project design: 100 %complete				
Proponent: Town of Edgartown/Tow	n of Oak	Bluffs				
Street: 70 Main Street			X			
Municipality: Edgartown		State: NY		Zip Code		
Name of Contact Person From Who	m Copies	of this ENF	May	Be Obtain	ed:	
Lynne Fraker						
Firm/Agency: Town of Edgartown Di	edge	Street: 70 M	lain		. 0000	
Municipality: Edgartown	E 500	State: MA	L	Zip Code		own ma i
Phone: 508-989-5840	Fax: 508	3-627-6123	E-n	nali: ilrakei	<u>weugan</u>	JWII-IIIa.
Does this project meet or exceed a mai	ΧY	R threshold (so	ee 301	CMR 11.03)?	□No	
Has this project been filed with MEPA b		Yes (EOEA No	o)	XNo	
Has any project on this site been filed v	vith MEPA X N	defore? /es (EOEA No	. <u>see</u>	project lis	<u>st</u> [No
Is this an Expanded ENF (see 301 CMR 11. a Single EIR? (see 301 CMR 11.06(8)) a Special Review Procedure? (see 301 C a Waiver of mandatory EIR? (see 301 C a Phase I Waiver? (see 301 CMR 11.11)	MR 11.09) MR 11.11)	∐Yes ∐Yes X Yes ∐Yes			X No X No ∐No X No	
Identify any financial assistance or land the agency name and the amount of fu	d transfer f nding or la	from an agenc and area (in ac	y of t cres):	he Commo None	nwealth, ir	ncluding
Are you requesting coordinated review X Yes(Specify_DEP C	with any o	other federal, s 1WQC, ACOE	state, <u>-</u>	regional, o	r local age	ency? _)
List Local or Federal Permits and Appr Conditions, DEP Chp91, 401 WQC, A	ovals: <u>S</u> Army Corr	ee list of Peri os PGP	mits	Appendix	<u>, Local O</u>	rders of

Which ENF or EIR review thresh	nold(s) does th	e project me	et or exceed	(see 301 CMR 11.03):		
☐ Land	K Rare Specie	es XV	Vetlands, W	aterways, & Tidelands		
☐ Water	☐ Wastewate		Transportati	ion		
☐ Energy	Air			ardous Waste		
☐ ACEC	Regulations	S 📙	Resources	Archaeological		
Summary of Project Size	Existing	Change	Total	State Permits &		
& Environmental Impacts	_			Approvals		
	AND			X Order of Conditions		
Total site acreage	81.9 acres			Superseding Order of Conditions		
Total site acreage	dredge and beach			X Chapter 91 License		
	nourishment			X 401 Water Quality		
New acres of land altered		0		Certification		
Acres of impervious area		0		☐ MHD or MDC Access Permit		
Square feet of new bordering vegetated wetlands alteration		0		☐ Water Management Act Permit		
Square feet of new other wetland alteration		0		☐ New Source Approval☐ DEP or MWRASewer Connection/		
Acres of new non-water		0		Extension Permit		
dependent use of tidelands or				Other Permits		
waterways		A CONTRACTOR OF THE PARTY OF TH		(including Legislative		
STR	UCTURES			Approvals) – Specify:		
Gross square footage						
Number of housing units				_		
Maximum height (in feet)						
TRANS	PORTATIO	N				
Vehicle trips per day						
Parking spaces				_		
WATER/	WASTEWAT	ER				
Gallons/day (GPD) of water use						
GPD water withdrawal						
GPD wastewater generation/						
treatment						
Length of water/sewer mains						
(in miles)						
CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natura resources to any purpose not in accordance with Article 97?						
Will it involve the release of any con	servation restri	ction, preserva	tion restriction	n, agricultural preservation		
restriction, or watershed preservation	on restriction?					
☐Yes (Specify)	X No			

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of
Pare Species or Everplary Natural Communities?
X Yes (Specify_Estimated and priority habitat piping plover, least terns)
HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district liste
in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth
Voc (Specific) A NU
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological
resources?
□Yes (Specify) X No
AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical
Environmental Concern?
☐Yes (Specify) X No
PROJECT DESCRIPTION: The project description should include (a) a description of the project
atta (h) a description of both on-site and off-site alternatives and the impacts associated with each
alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may
allernative, and (c) potential on the and on the same
attach one additional page, if necessary.)
The Towns of Edgartown and Oak Bluffs are requesting a waiver from a mandatory EIR. This project
the implementation of the Town of Eduartown/Lown of Uak Blutts Tell-Teal Walltellance
the deline and basek neurichment plan. The Plan is a comprehensive effort to consolidate and manage
on anisting drades and basch nourishment maintenance nermits within Education and Oak Didney Laon
culture on sites has historically completed a full nermit and review process with the applicable local,
Chate and Endoral Authorities on an individual hasis at different times. The project is designed to provide
the Towns with more effective ways to manage these ongoing maintenance beach nourishment and
dredging activities.

Project Locations:

The maintenance dredging component in Cape Pogue Bay combines 3 maintenance dredge areas, the Gut, the Narrows, and Dike Bridge Approach. There are 3 nourishment sites: Cape Pogue Elbow (NSELB) Nourishment site, Dike Bridge (NSDB), Nourishment Site, the Narrows (NSN),

The Edgartown Harbor component combines 7 maintenance dredge areas: Eel Pond, Lighthouse, Inner Harbor, Collins Beach, Caleb's Pond, Katama Boat Ramp and Channel, and Katama Channel. There are 5 Beach nourishment sites: Eel Pond (EPNS), Fuller Beach (FBNS), Nourishment site "E"(NSE), Nourishment sites "A"-"D"(NSA-D), NBNS(Norton Beach).

The Edgartown Great Pond component combines 4 maintenance dredging areas: Great Pond Ramp (Wilson's Landing), Great Pond Channel, Sluiceway Approach, and Herring Creek Restoration Project. Nourishment site is South Beach. (SBNS)

Sengecontacket Pond component combines 3 dredging areas Borrow Area #1, Borrow Area #2, Little Bridge Outside Channel. 3 Nourishment sites are Sylvia State Beach (SBNS), Bend in the Road (BITRNS) Beach, Cow Bay Dunes(CBNS).

Waiver Request

Maintenance dredging is for a total of 173,570cy, and 39.4 acres at various sites. Beach nourishment will affect 42.5 acres. The cumulative impact of the consolidated projects exceeds a mandatory EIR threshold. The filing of an EIR would result in undue hardship for the proponents. This is maintenance dredging and nourishment project. Further review would not reduce damage to the environment.

This project is not likely to cause damage to the Environment. Each of the project components have been dredged or nourished and historically approved by local, State and federal environmental

permitting process. The proponents will obtain individual comprehensive permits from Mass DEP (cp 91,401 WQC), and NHESP (MESA) review. The permits will include conditions such as time of year restrictions to ensure compliance with applicable regulations and standards

All beach nourishment components have been historically reviewed by NHESP and the proponents will work to address any outstanding issues. The proponents will work with NHESP to address any additional rare species concerns including endangered shorebirds.

The project does not include any new improvement dredging or structures. Any future improvement projects will be reviewed by local State and federal agencies separately, and then added to the comprehensive permit. The Towns will work with the agencies on a reporting protocol for dredging and beach nourishment

The proponents will develop and establish a monitoring program to gauge overall project success.

Ample and unconstrained infrastructure facilities and services exist to support the project. All work will be performed by the Town of Edgartown Dredge. This project is a continuation of ongoing beach nourishment and dredging which are intended to provide safe navigation and enhance beach areas. Dredging in the Great Pond is a continuation of an ongoing project to maintain flushing for fisheries habitat and the overall health of the Pond.

Alternative Analysis

- No-Build: No dredging is conducted. Shoaling in the maintenance dredge areas will continue to provide a greater risk to public safety and property due to vessels colliding with each other or running onto shoals. Shoaling represents a threat to public safety by restricting vessels from using the established course; potential vessel damage from avoiding and/or coming in contact with a hazard (such as a shoal or another vessel and jeopardizing safe turning. No dredging in Great Pond and Sengecontacket Pond will reduce water circulation and reduce salinity and water quality and degrade fisheries habitat. Sand would be barged in for needed beach renourishment for road and storm protection at a prohibitive cost.
- 2. Maintenance dredging is conducted with a hydraulic dredge and beach nourishment. This option would cause minimal and temporary amounts of environmental impacts to water quality and/or coastal resource because dredging would be completed during cold seasons when there is less growth and fisheries activity in the nearby resource areas. Hydraulic dredging has the least environmental impact of dredging methods. Maintenance dredging will provide multiple benefits of enhanced marine fisheries habitat by maintaining tidal exchange, navigation for public safety, and access to shellfishing areas. Beneficial reuse of dredged material has the multiple benefits of storm and flood damage protection, improved habitat for state listed endangered species, enhancement of public recreational beaches, and maintenance of public OVL trails.
- 3. Upland De-watering and Disposal of Dredged Material. The proposed areas would be dredged, and then dredge spoils would be de-watered and trucked and disposed at an upland site. The project would then not provide the multiple benefits of storm damage protection, and state-listed endangered species habitat improvement, public OVL trail maintenance, and safe navigation to allow access for commercial and recreational shellfishing.

Preferred Alternatives:

Alternative No. 2 Maintenance dredging with beneficial reuse of material as beach nourishment.

<u>LAND SECTION</u> – all proponents must fill out this section

l.	Thresholds / Permits
	A. Does the project meet or exceed any review thresholds related to land (see 301 CMR 11.03(1) Yes No; if yes, specify each threshold:
II.	Impacts and Permits A. Describe, in acres, the current and proposed character of the project site, as follows: Existing Change Total
	B. Has any part of the project site been in active agricultural use in the last three years? Yes _X No; if yes, how many acres of land in agricultural use (with agricultural soils) will be converted to nonagricultural use?
	C. Is any part of the project site currently or proposed to be in active forestry use? Yes _X_ No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a DEM-approved forest management plan:
	D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? Yes _X_ No; if yes, describe:
	E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction? Yes No; if yes, does the project involve the release or modification of such restriction? Yes No; if yes, describe:
	F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A? Yes _X_ No; if yes, describe:
	G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes No _X_; if yes, describe:
	H. Describe the project's stormwater impacts and, if applicable, measures that the project will take to comply with the standards found in DEP's Stormwater Management Policy:
	I. Is the project site currently being regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes NoX; if yes, what is the Release Tracking Number (RTN)?
	J If the project is site is within the Chicopee or Nashua watershed, is it within the Quabbin, Ware, or Wachusett subwatershed? Yes _X_ No; if yes, is the project site subject to regulation under the Watershed Protection Act? Yes No
	K. Describe the project's other impacts on land:

III.. Consistency
A. Identify the current municipal comprehensive land use plan and the open space plan and describe the consistency of the project and its impacts with that plan(s):

Consistent with the Town of Edgartown Harbor Management and Dredge Plan

B. the	Identify the current Regional Policy Plan of the applicable Regional Planning Agency and describe e consistency of the project and its impacts with that plan:
c.	Will the project require any approvals under the local zoning by-law or ordinance (i.e. text or map amendment, special permit, or variance)? Yes No _X_; if yes, describe:
D.	Will the project require local site plan or project impact review?YesX No; if yes, describe:
RARE S	PECIES SECTION
Δ	resholds / Permits Will the project meet or exceed any review thresholds related to rare species or habitat (see 301 MR 11.03(2))? _X Yes No; if yes, specify, in quantitative terms: 42.5 acres beach norishment
В.	. Does the project require any state permits related to rare species or habitat?Yesx_No
Ti	. If you answered "No" to <u>both</u> questions A and B, proceed to the Wetlands, Waterways, and idelands Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder the Rare Species section below.
A	mpacts and Permits Does the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural leritage Atlas (attach relevant page)? _X Yes No. If yes, 1. Which rare species are known to occur within the Priority or Estimated Habitat (contact: Environmental Review, Natural Heritage and Endangered Species Program, Route 135, Westborough, MA 01581, allowing 30 days for receipt of information): Piping Plovers, Least Terns, Roseate Terns 2. Have you surveyed the site for rare species? Yes _X_ No; if yes, please include the results of your survey. 3. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? _X_ Yes No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations?X Yes No
B a	B. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? Yes _X_ No; if yes, describe:
а	C. Will the project alter "significant habitat" as designated by the Massachusetts Division of Fisheries and Wildlife in accordance with M.G.L. c.131A (see also 321 CMR 10.30)? _Yes _X_ No; if yes, lescribe:
s	 Describe the project's other impacts on rare species including indirect impacts (for example, stormwater runoff into a wetland known to contain rare species or lighting impacts on rare moth habitat):

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wetlands**, **waterways**, and **tidelands** (see 301 CMR 11.03(3))? _X _ Yes _ No; if yes, specify, in quantitative terms: 81.9 acres af dredging and beach nourishment

C. If you answered "No" to <u>both</u> questions A and B, proceed to the **Water Supply Section**. If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.

II. Wetlands Impacts and Permits

- A. Describe any wetland resource areas currently existing on the project site and indicate them on the site plan:
- B. Estimate the extent and type of impact that the project will have on wetland resources, and indicate whether the impacts are temporary or permanent:

Coastal Wetlands Land Under the Ocean Designated Port Areas Coastal Beaches Coastal Dunes Barrier Beaches Coastal Banks Rocky Intertidal Shores Salt Marshes Land Under Salt Ponds Land Containing Shellfish Fish Runs Land Subject to Coastal Storm Flowage	Area (in square feet) or Length (in linear feet)705325sf376,313sf200,000_sf127,7031sf1,009,415sf
nland Wetlands Bank Bordering Vegetated Wetlands Land under Water Isolated Land Subject to Flooding Bordering Land Subject to Flooding Riverfront Area	
C. Is any part of the project 1. a limited project? Yes 2. the construction or alteration 3. fill or structure in a velocity z Beach Nouris	of a dam? YesX_ No; if yes, describe: cone or regulatory floodway?X_ Yes No
 dredging or disposal of dred of dredged material and the pro Various disposal site 	ged material?X_Yes No; if yes, describe the volume oposed disposal site: s, 173,570 cy dredged
 a discharge to Outstanding subject to a wetlands restrict square feet): 	Resource Waters?YesX No tion order?Yes _X No; if yes, identify the area (in

D. Does the project require a new or amended Order of Conditions under the Wetlands Protection Act (M.G.L. c.131A)? _X Yes No; if yes, has a Notice of Intent been filed or a local Order of Conditions issued? _X Yes No; if yes, list the date and DEP file number:Application Submitted Was the Order of Conditions appealed? Yes _X No. Will the project require a variance from the Wetlands regulations? Yes X_ No.
 E. Will the project: 1. be subject to a local wetlands ordinance or bylaw?X Yes No 2. alter any federally-protected wetlands not regulated under state or local law? Yes _X_ No; if yes, what is the area (in s.f.)?
F. Describe the project's other impacts on wetlands (including new shading of wetland areas or removal of tree canopy from forested wetlands): project designed to enhance endangered shorebird and fisheries habitat, improve flushing in Great Pond
III. Waterways and Tidelands Impacts and Permits A. Is any part of the project site waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91?X Yes No; if yes, is there a current Chapter 91 license or permit affecting the project site?X_Yes No; if yes, list the date and number: See supporting documents
B. Does the project require a new or modified license under M.G.L.c.91?X_Yes _ No; in yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water dependent use? O Current0 Change Total O
C. Is any part of the project 1. a roadway, bridge, or utility line to or on a barrier beach?YesXNo; if yes, describe: 2. dredging or disposal of dredged material? _X YesNo; if yes, volume of dredged material173,570 cy of dredged material 3. a solid fill, pile-supported, or bottom-anchored structure in flowed tidelands or other waterways?Yes _X No; if yes, what is the base area? 4. within a Designated Port Area?Yes _X No
D. Describe the project's other impacts on waterways and tidelands: Project designed to enhance storm protection on beaches and enhance fisheries and shorebird habitat. Will improve navigation.
IV. Consistency: A. Is the project located within the Coastal Zone? X_Yes No; if yes, describe the project's consistency with policies of the Office of Coastal Zone Management: See Compliance Assessment Appendix A
B. Is the project located within an area subject to a Municipal Harbor Plan? Yes _X No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan: The project is consistent with Town of Edgartown Harbor Plan, Sept. 1997
WATER SUPPLY SECTION
I. Thresholds / Permits A. Will the project meet or exceed any review thresholds related to water supply (see 301 CMR 11.03(4))? Yes X_ No; if yes, specify, in quantitative terms:
B. Does the project require any state permits related to water supply?Yes _X No; if yes,

	specify which permit:					
	C. If you answered "No" to <u>both</u> questions A and answered "Yes" to <u>either</u> question A or question below.	d B, proceed to t B, fill out the rer	the Wastewater mainder of the W	Section. If you later Supply Section		
II.	Impacts and Permits A. Describe, in gallons/day, the volume and sou at the project site:	rce of water use for existing and proposed activities				
	· · · · · · · · · · · · · · · · · · ·	Existing	Change	<u>Total</u>		
	Withdrawal from groundwater Withdrawal from surface water Interbasin transfer Municipal or regional water supply					
	B. If the source is a municipal or regional suppl adequate capacity in the system to accommoda	y, has the munic te the project? _	cipality or region Yes No	indicated that there is		
	C. If the project involves a new or expanded wi	thdrawal from a	groundwater or	surface water source,		
	 have you submitted a permit applica have you conducted a pump test? _ 	tion? Yes Yes No	No; if yes, a ; if yes, attach th	attach the application e pump test report		
	D. What is the currently permitted withdrawal aWill the project require an i	it the proposed v ncrease in that v	vater supply sou vithdrawal?\	rce (in gallons/day)? /es No		
	 E. Does the project site currently contain a wat water main, or other water supply facility, or will Yes No. If yes, describe existing and prop 	the project invo	lve construction	of a new facility?		
	22 V 22	<u>Existing</u>	Change	<u>Total</u>		
	Water supply well(s) (capacity, in gpd) Drinking water treatment plant (capacity, in gpd Water mains (length, in miles))				
F. If the project involves any interbasin transfer of water, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?						
	 G. Does the project involve 1. new water service by a state agency to a municipality or water district? Yes No; if yes, how many acres of alteration? 3. a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities? Yes No 					
	 H. Describe the project's other impacts (include facilities and services: 	ling indirect impa	acts) on water re	sources, quality,		
1	II. Consistency Describe the project's consist enhance water resources, quality, facilities and	ency with water I services:	conservation pla	ns or other plans to		
WAS	STEWATER SECTION					
I	. Thresholds / Permits A. Will the project meet or exceed any review 11.03(5))?Yes _X No; if yes, specify,	/ thresholds relation quantitative te	ted to wastewat erms:	er (see 301 CMR		
	B. Does the project require any state permits related to wastewater?Yes _X_ No; if yes,					

C. If you answered "No" to <u>both</u> questions A and B, proceed to the Transportation Traffic Generation Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Wastewater Section below.						
 Impacts and Permits A. Describe, in gallons/day, the volume and disposal of wastewater generation for existing and proposed activities at the project site (calculate according to 310 CMR 15.00): 						
Discharge to groundwater (Title 5) Discharge to groundwater (non-Title 5) Discharge to outstanding resource water Discharge to surface water Municipal or regional wastewater facility	Existing	<u>Change</u>	<u>Total</u>			
TOTAL						
B. Is there sufficient capacity in the ex Yes No; if no, describe where ca	kisting collection pacity will be fou	system to accon ind:	nmodate the project?			
 C. Is there sufficient existing capacity at the pri if no, describe how capacity will be increased 	C. Is there sufficient existing capacity at the proposed wastewater disposal facility? Yes No; if no, describe how capacity will be increased:					
D. Does the project site currently contain a wastewater treatment facility, sewer main, or other wastewater disposal facility, or will the project involve construction of a new facility? Yes No. If yes, describe as follows:						
Wastewater treatment plant (capacity, in gpd) Sewer mains (length, in miles) Title 5 systems (capacity, in gpd)	Existing	<u>Change</u>	<u>Total</u>			
E. If the project involves any interbasin transfer of wastewater, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?						
F. Does the project involve new sewer service by an Agency of the Commonwealth to a municipality or sewer district? Yes No						
G. Is there any current or proposed facility at t combustion or disposal of sewage sludge, slud materials? Yes No; if yes, what is t	lge ash, grit, scr the capacity (in t	eenings, or other ons per day):	sewage residual			
Storage Treatment, processing Combustion Disposal	Existing	<u>Change</u> 	<u>Total</u> 			

specify which permit:

treatment facilities:

III. Consistency -- Describe measures that the proponent will take to comply with federal, state,

H. Describe the project's other impacts (including indirect impacts) on wastewater generation and

regional, and local plans and policies related to wastewater management:						
A. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan? Yes No; if yes, indicate the EOEA number for the plan and describe the relationship of the project to the plan						
TRANSPORTATION TRAFFIC GENERATION SECTION						
I. Thresholds / Permits A. Will the project meet or exceed any review thresholds related to traffic generation (see 301 CMR 11.03(6))? Yes _X No; if yes, specify, in quantitative terms:						
B. Does the project require any state permits related to state-controlled roadways ?Yes _X No; if yes, specify which permit:						
C. If you answered "No" to <u>both</u> questions A and B, proceed to the Roadways and Other Transportation Facilities Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Traffic Generation Section below.						
II. Traffic Impacts and Permits A. Describe existing and proposed vehicular traffic generated by activities at the project site: <u>Existing</u> <u>Change</u> <u>Total</u>						
Number of parking spaces						
B. What is the estimated average daily traffic on roadways serving the site?						
Roadway Existing Change Total 1.						
C. Describe how the project will affect transit, pedestrian and bicycle transportation facilities and services:						
III. Consistency Describe measures that the proponent will take to comply with municipal, regional, state, and federal plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services:						
ROADWAYS AND OTHER TRANSPORTATION FACILITIES SECTION						
I. Thresholds A. Will the project meet or exceed any review thresholds related to roadways or other transportation facilities (see 301 CMR 11.03(6))? Yes X_ No; if yes, specify, in quantitative terms:						
 B. Does the project require any state permits related to roadways or other transportation facilities? Yes X_ No; if yes, specify which permit: C. If you answered "No" to both questions A and B, proceed to the Energy Section. If you answered "Yes" to either question A or question B, fill out the remainder of the Roadways Section below. 						
II. Transportation Facility Impacts A. Describe existing and proposed transportation facilities at the project site: Existing Change Total						

Length (in linear feet) of new or widened roadway
Width (in feet) of new or widened roadway
Other transportation facilities:
B. Will the project involve any 1. Alteration of bank or terrain (in linear feet)? 2. Cutting of living public shade trees (number)? 3. Elimination of stone wall (in linear feet)?
III. Consistency Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:
ENERGY SECTION
 I. Thresholds / Permits A. Will the project meet or exceed any review thresholds related to energy (see 301 CMR 11.03(7))? Yes X No; if yes, specify, in quantitative terms:
B. Does the project require any state permits related to energy?Yes _X No; if yes, specify which permit:
C. If you answered "No" to <u>both</u> questions A and B, proceed to the Air Quality Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Energy Section below.
II. Impacts and Permits A. Describe existing and proposed energy generation and transmission facilities at the project site: Existing Change Total
 B. If the project involves construction or expansion of an electric generating facility, what are 1. the facility's current and proposed fuel source(s)? 2. the facility's current and proposed cooling source(s)?
C. If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way? Yes No; if yes, please describe:
D. Describe the project's other impacts on energy facilities and services:
III. Consistency Describe the project's consistency with state, municipal, regional, and federal plans and policies for enhancing energy facilities and services:

AIR QUALITY SECTION

I. Thresholds

A. Will the project meet or exceed any review thresholds related to air quality (see 3X01 CMR

11.03(8))	? Yes X_ No; if ye	es, specify, in qu	iantitative terms	ē	
B. yes,	Does the project rec specify which permit:	luire any state p	ermits related to	air quality? _	Yes _X No; if
Section.	answered "No" to <u>both</u> If you answered "Yes" ection below.	questions A and to <u>either</u> question	d B, proceed to to on A or question	the Solid and I B, fill out the re	Hazardous Waste emainder of the Air
A. Does	and Permits the project involve consoendix A)? Yes	struction or mod No; if yes, des	lification of a ma	ijor stationary s d proposed em	ource (see 310 CMR issions (in tons per
			Existing	<u>Change</u>	<u>Total</u>
Oxides of ni Lead	noxide de anic compounds itrogen ous air pollutant				
B. Desc	ribe the project's other i	mpacts on air re	esources and air	r quality, includi	ng noise impacts:
III. Consist A. Desc	tency ribe the project's consis	stency with the S	State Implement	ation Plan:	
B. Desc local pla	ribe measures that the ns and policies related t	proponent will to to air resources	ake to comply wand air quality:	ith other federa	l, state, regional, and
SOLID AND H	HAZARDOUS WAS	TE SECTION	1		
A. Will t	Ids / Permits he project meet or exce R 11.03(9))? Yes	eed any review t X_ No; if yes, sp	hresholds relate becify, in quantit	d to solid or h ative terms:	azardous waste (see
B. Does No; if ye	the project require any s, specify which permit:	state permits re	elated to solid a	nd hazardous	waste?Yes _X
Resour	u answered "No" to <u>both</u> ces Section. If you ans olid and Hazardous Wa	swered "Yes" to	either question	the Historical A or question B	and Archaeological , fill out the remainder
A. Is the combus of the ca	s and Permits ere any current or propo- tion or disposal of solid apacity: Storage Treatment, processing Combustion	waste? Yes	ne project site fo s No; if yes <u>Change</u> 	r the storage, tr , what is the vo <u>Total</u> ————	reatment, processing, lume (in tons per day)
		- 13 -		50	

Disposal				
B. Is there any current or prop disposal of hazardous waste? of the capacity:	osed facility at th Yes No	ne project site fo ; if yes, what is	r the storage, recycl the volume (in tons o	ing, treatment or or gallons per day)
	Existing	<u>Change</u>	<u>Total</u>	
Storage Recycling			6	
Treatment			3	
Disposal				
 C. If the project will generate s alternatives considered for re- 	olid waste (for ex use, recycling, ar	xample, during on and disposal:	demolition or constru	ction), describe
D. If the project involves demo	olition, do any bu	ildings to be der	molished contain ast	pestos?
E. Describe the project's other	r solid and hazar	dous waste imp	acts (including indire	ect impacts):
III. ConsistencyDescribe meas Waste Master Plan:	sures that the pro	oponent will take	e to coXmply with the	e State Solid
HISTORICAL AND ARCHAEOL	OGICAL RE	SOURCES S	ECTION	
I. Thresholds / Impacts A. Is any part of the project si case listed in the State Regist Assets of the Commonwealth' or any exterior part of such his	er of Historic Pla ?	ces or the Inven No; if yes, does	tory of Historic and the project involve t	Archaeological the demolition of all
B. Is any part of the project si or the Inventory of Historic and yes, does the project involve t No; if yes, please describe	d Archaeological he destruction of	Assets of the C	ommonwealth?	Yes X No; if
C. If you answered "No" to <u>all</u> Certifications Sections. If yo the remainder of the Historica	u answered "Yes	s" to any part of	<u>either</u> question A or	achments and question B, fill out
D. Have you consulted with the attach correspondence	ne Massachusett	s Historical Con	nmission?Yes	No; if yes,
E. Describe and assess the phistorical and archaeological r	oroject's other im resources:	pacts, direct and	d indirect, on listed o	r inventoried
II. Consistency Describe mea	asures that the p	roponent will tak ving historical a	ke to comply with fed and archaeological re	leral, state, sources:

ATTACHMENTS:

- 1. Plan, at an appropriate scale, of existing conditions of the project site and its immediate context, showing all known structures, roadways and parking lots, rail rights-of-way, wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities.
- Plan of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase).
- 3. Original U.S.G.S. map or good quality color copy (8-1/2 x 11 inches or larger) indicating the project location and boundaries
- List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2).
- 5. Other:

CERTIFICATIONS:

 The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

Vineyard Gazette

May 29, 2009

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

5/29/2009

Lynne Fraker Edgartown Dredge Administrator

Jane Fraker

Town of Edgartown

70 Main Street

Edgartown, MA 02539

508-989-580

Appendix A

Supporting Information

Maintenance Dredging and Beach Nourishment 10 year Comprehensive Permit

18 Maintenance Dredge Areas
12 Beach Renourishment Sites
Performance Standards

Edgartown, MA

I. Project Description:

This project consists of the implementation of the Town of Edgartown's Ten-Year Maintenance dredging and beach nourishment plan. The Plan is a comprehensive effort to consolidate and manage 29 existing dredge and beach nourishment sites within the Town. The project is designed to provide the Town with more effective ways to manage these ongoing maintenance beach nourishment and dredging activities. Maintenance dredging is for a total of 173,570cy at various sites. Please refer to inclusion list for the chart of all projects including breakdown of square footage and cubic yardage, permit and dredge history.

II. Project Locations:

The maintenance dredging component in Cape Pogue Bay combines 3 maintenance dredge areas, the Gut, the Narrows, and Dike Bridge Approach. There are 3 nourishment sites: Cape Pogue Elbow (NSELB) Nourishment site, Dike Bridge (NSDB), Nourishment Site, the Narrows (NSN),

The Edgartown Harbor component combines 8 maintenance dredge areas: Eel Pond, Lighthouse, Inner Harbor, Collins Beach, Caleb's Pond, Katama Boat Ramp and Channel, and Katama Channel. There are 5 Beach nourishment sites: Eel Pond (EPNS), Fuller Beach (FBNS), Nourishment site "E"(NSE), Nourishment sites "A"-"D"(NSA-D), NBNS(Norton Beach).

The Edgartown Great Pond component combines 4 maintenance dredging areas: Great Pond Ramp (Wilson's Landing), Great Pond Channel, Sluiceway Approach, and Herring Creek Restoration Project. Nourishment site is South Beach. (SBNS)

Sengecontacket Pond component combines 3 dredging areas Borrow Area #1, Borrow Area #2, Little Bridge Outside Channel. 3 Nourishment sites are Sylvia State Beach (SBNS), Bend in the Road (BITRNS) Beach, Cow Bay Dunes (CBNS).

Please refer to locus map.

III. Dredging and Beach Nourishment Projects:

A. CAPE POGUE

Cape Pogue Dredging:

The Cape Pogue project is maintenance dredging for navigation and beach nourishment The combined maintenance dredging of three areas in Cape Pogue Pond by hydraulic dredge is for a total of 14800cy. Maintenance dredging of these channels is vital to navigation for commercial and

recreational shellfishing and tidal pond flushing. There are no eelgrass beds or shellfish located in any of the project areas. There is eelgrass in the vicinity of the Gut, but not in the project area. Previous information received during the initial permitting has indicated that Winter flounder will not be impacted in the Narrows or the Dyke Bridge Approach. Due to the high current velocity in the area of the Gut it is not likely that winter flounder will spawn in that entrance channel. Work in the 3 project areas will occur between Nov 1 and March 15 to avoid adverse impacts nesting birds.

- The Gut is maintenance dredging of 9900cy of material, for 135,000sf to 2.5'
- The Narrows is maintenance dredging of 3100cy for 48,500sf to -3'
- Dike Bridge Approach is maintenance dredging of 1800cy for 21,000sf to -3'

Cape Pogue Beach Nourishment:

For all three nourishment sites, dredged materials will be placed as beach renourishment, on previously permitted barrier beaches and over the sand roads, in coordination with Trustees of Reservations, above mean high water. Silt barriers will be placed to protect salt marsh in the nourishment areas as required by the Conservation Commission Orders of Conditions and removed by April 15. Dredged sand shall be dewatered within a temporary dewatering basin prior to final placement on the beach. Placement of dredge pipes across the marsh shall be coordinated to cause the least amount of disturbance. Efforts shall be made to minimize the impact of dredge pipes on beach vegetation. Any vegetation disturbed by placement of dredge pipe shall be replanted in coordination with the Conservation Commission. Disposal will only take place between Nov 1 and March 15 to minimize adversely effecting piping plovers.

- Cape Pogue Elbow (NSELB) Nourishment area will affect 101,000 sq ft of beach above the high tide line. This project was reviewed by NHESP file # 97-1566 and is determined to be near but not within plover and Least Tern nesting habitat. Prior to work, including the laying of pipe, the nesting sites of snowy egret and the black-crowned night heron will be demarcated by qualified persons. No spoils shall be deposited within 10 feet of vegetation containing heron nests. Dredge pipe shall not run through or within 10 feet of any heron nests.
- The Narrows (NSN) Nourishment area will affect 25,000sf above the mean high tide line. This project was reviewed by NHESP file # 97-1666. It has been determined to be within the actual habitat of Piping plovers. Disposal along the Nantucket Sound of 45,000sf will be at a 10-1 slope to provide habitat for plovers. Over the short duration of construction activities (3 days), work will be monitored by qualified monitor.
- **Dike Bridge (NSDB)** Nourishment site, will affect 21000sf above the mean high tide line on over the sand roads. This project was reviewed by NHESP file # 97-1562. Disturbance to marsh vegetation shall be avoided in an effort not disturb adult and chick foraging areas.

B. EDGARTOWN HARBOR

Edgartown Harbor Dredging:

The combined maintenance dredging of 7 areas in Edgartown Harbor by hydraulic dredge is for a total of 44,864 cy of sand, for navigation and beach nourishment. Maintenance dredging of these channels is vital to navigation for the public safety, for access for commercial and recreational shellfishermen, to maintain shellfish habitat and for beach nourishment

- **Eel Pond** channel and ramp is maintenance dredging 3200cy from approximately 59,000SF area to a depth of -4' below MLW in the channel in Eel Pond and Nantucket Sound and an approximately 800cy, 10,000sf area to a depth of -2.5 ft MLW in the ramp area. There will be no dredging in eelgrass beds. There are no shellfish located in any of the project areas.
- **Lighthouse Point** is maintenance dredging of 8400cy, approximately 50,990 sq feet, to a depth of -7' MLW at the entrance to Edgartown Harbor for navigation safety.
- Inner Harbor is maintenance dredging of 8500cy, 113,000 sq ft to a depth of -6' MLW in the mooring area off Chappaquiddick Point in order to maintain safe navigation for commercial and recreational vessels.
- Collins Beach is maintenance dredging of 2150cy, to a depth of -6' MLW to maintain navigation for commercial and recreational vessels.
- Calebs Pond Channel is maintenance dredging of 8400cy, 92,000sq ft to -4' MLW. The channel is 55 ft wide and 1700ft long and maintains access to the Pond for commercial and recreational shellfishing.
- **Katama Boat Ramp** is maintenance dredging of 9390 cy, to -5' MLW for maintenance of the area around the boat ramp and a navigation channel.
- **Katama Channel** is maintenance dredging of 3975cy, 50,094 sq ft to a depth of -5' MLW to maintain a navigation channel for commercial, recreational and emergency vessels.

Edgartown Harbor Beach Nourishment:

For all 5 nourishment sites, dredged materials will be placed as beach renourishment, on previously permitted beaches, above mean high water. Nourishment will provide storm protection and habitat for endangered shorebirds. Silt barriers will be placed to protect salt marsh in the nourishment areas required by the Conservation Commission Orders of Conditions. Dredged material shall be dewatered on the beach. Placement of dredge pipes shall be coordinated with Conservation Commission and/or Sheriffs Meadow. Efforts shall be made to minimize the impact of dredge pipes on beach vegetation. Any vegetation disturbed by placement of dredge pipe shall be replanted in coordination with the Conservation Commission. To comply with TOY restrictions, disposal will only take place between Nov 1 and April 1 to eliminate any adverse effect on nesting shorebirds. Unless otherwise noted, beach slope will be 10-1 for shorebird habitat.

• **Eel Pond (NSEP)** nourishment area is adjacent to the dredge area and owned by Sherriff's Meadow. Private eroding beaches, also adjacent to dredge area, will be available for renourishment if, in consultation with Sherriff's Meadow, that beach area is not available. 1800 cy will be placed HTL over 19500sf, 1400cy over 9700sf will be placed above HTL. This project was reviewed by NHESP file # 97-1566 and is determined to be within plover and Least Tern nesting habitat. Slope of the Sherriff's Meadow Beach is 10-1. Private Beaches were reviewed by NHESP file# 06-21069. There is no known nesting taking place in this area. Monitoring will be required if species are found.

- Fuller Beach (NSFB) nourishment area, is a barrier beach. It was reviewed by NHESP file # 98-3287, and was determined to be within the actual habitat of endangered shorebirds. Nourishment will be placed above MHW at a slope of 10:1 to maintain habitat for endangered shorebirds.
- A-D, F (NSA-D,F) and (NSE) nourishment sites are located on separate beach areas in Edgartown Inner Harbor. Nourishment will be placed landward of MHW. Nourishment sites.
- (NSNB) nourishment area at Norton Beach is located at the southern edge of Katama Bay. Material will be placed above MHW. Slope will be 10:1 for shorebird habitat. Reviewed by NHESP file# 02-10721

C. EDGARTOWN GREAT POND

Edgartown Great Pond Dredging:

Combined 4 dredging projects in Edgartown Great Pond are for maintenance dredging of 25,500 cy of material to be used for beach nourishment. Maintenance dredging of these channels is vital to navigation and tidal pond flushing. There are no eelgrass beds or shellfish located in the project areas. Great Pond Channel excavation may occur between April 1 and July 31 with approved monitoring of shorebirds and in consultation with Conservation Commission. Work will be done under the supervision and conditions set forth by the Conservation Commission Order of Conditions, SE 20-868, SE 20-854, SE 20-911, SE 20-809, 20-818.

- **Great Pond Ramp** project is to hydraulically dredge 500cy to maintain the navigation area at a Town owned boat ramp known as Wilson's Landing.
- **Great Pond Channel** project is for maintenance excavation/dredging of 9800cy in the channel at the outlet to the Atlantic Ocean to enhance tidal flushing and improve marine fisheries habitat within the Pond.
- **Sluiceway Approach** is to dredge 9800cy to maintain the approach to the Herring Creek restored sluiceway and fish run.
- Herring Creek Restoration Project is to dredge up to 5800 cy to maintain a restored historic anadromous fishway from Katama Bay through Herring Creek and Crackatuxet Pond to Edgartown Great Pond, using a combination of hydraulic and mechanical dredging. Some maintenance excavation will be carried out using conventional construction equipment operating from the beach, bank or dune. Where necessary invasive nuisance species will be removed, by hand if possible, and disturbed areas will be replanted with native species.

Edgartown Great Pond Beach Nourishment:

All material appropriate for beach nourishment will be placed above the MLW. No beach nourishment shall occur from April 1 to August 31 for the protection of shore birds. Slope will be set at 10-1 and there will be no planting on the beach for the maintenance of shorebird habitat

• (SBNS) South Beach is the permitted nourishment site for dredged materials from the Sluiceway Approach, Great Pond Channel and compatible material from the Herring Creek Restoration. Material will be pumped through a pipeline and pumped directly

onto the beach. For Herring Creek Restoration project, the material suitable for beach nourishment will be placed into trucks and transported to the permitted South Beach (SBNS), barrier beach renourishment area and placed landward of MHW. Any invasive nuisance vegetation will be disposed of upland.

• (BRNS)Great Pond Boat Ramp (Wilson's Landing) disposal area will be used for the Boat Ramp project only and disposal will occur only when the Pond is low, on Town beach adjacent to the Ramp and under supervision of the Conservation Commission.

D. SENGECONTACKET POND

Sengecontacket Pond Dredging

Three areas in Sengecontacket Pond are permitted for maintenance dredging of 78,000 cy to be used for beach nourishment on the barrier and coastal beaches.

- Borrow Area #1 is permitted for 67,000cy, 720,000sf, to -3MLW
- Borrow Area #2 is permitted for 2500cy, 147814sf,to -3MLW
- Little Bridge Outside Channel is permitted for 4000 cy 12,000sf to -5MLW

Sengecontacket Pond Beach Nourishment Areas

The 4 permitted nourishment areas are part of the barrier beach system and are all important for storm and flood protection for the barrier and coastal beaches, roads and infrastructure. Severe winter storms make erosion a constant issue. All projects are designed to maintain and enhance endangered shorebird habitat. Recreational value is enhanced on the very popular public beaches.

- (SBNS) Sylvia State Barrier Beach requires nourishment to provide storm protection
 for the State Highway and Sengecontacket Pond. Temporary groins were installed as
 part of the 1997 Beach Road Erosion Control project. These groins help control the
 rate of erosion and need to be maintained. Dukes County and the Barrier Beach Task
 Force have implemented a Beach Management program to monitor the beach erosion
 at Sylvia and the need for maintenance.
- (BITRNS)Bend in the Road is part of the barrier beach system protect Sengecontacket Pond and the State Highway. This popular Town beach was recently restored and will need to be maintained. Dunes were restored and habitat for endangered species was created.
- (CBNS) Cow Bay Dunes is maintenance of badly eroded dunes on private beaches. Trapps Pond and upland infrastructure are protected by these dunes. Habitat for endangered shorebirds was created and will need to be maintained.

IV. Performance Standards

Coastal Resource Area: Land Under the Ocean [310 CMR 10.25(3)]

When land under the ocean or nearshore areas of land under the ocean are found to be significant to the protection of marine fisheries, protection of wildlife habitat, storm damage prevention or flood control, 310 CMR 10.25(3) through (7) shall apply:

- 10.28(3)(a) Effects on ability of waves to remove sand from dunes. The beach nourishment project will build the slope of the beach to the recommended 10:1 slope, and will not affect the ability of waves to remove sand from the dune.
- 10.28(3)(b) Effects disturbing vegetative cover so as to destabilize the dune. These projects are designed to protect vegetation on the dune adjacent to the project from impacts, and any disturbed vegetation will be replanted. Dune maintenance in project areas will include planting to restabilize the dune.
- 10.28(3)(c) Effects causing any modification of the dune form increasing the potential for storm or flood damage. These projects are designed to enhance the dune form to increase storm and flood damage protection.
- 10.28(3)(c) Effects interfering with the landward or lateral movement of the dune. The beach nourishment sands are the same quality as the dunes and no changes to landward or lateral movement of the dunes are anticipated
- 10.28(3)(e) Effects causing removal of sand from the dune artificially. These are renourishment projects and will add sand to the dune
- 10.28(3)(f) Effects interfering with mapped or otherwise identified bird nesting habitat. These projects are designed to increase and improve bird nesting habitat. All sites are designed with NHESP guidance

Coastal Resource Area: Land under Salt Ponds: [310 CMR 10.33]

When Land Under a Salt Pond is determined to be significant to the protection of marine fisheries and wildlife habitat, 310 CMR 10.33(3) through (5) shall apply: There is a presumption that Land Under Sengekontacket Pond and Edgartown Great Pond is significant to protection of marine fisheries and wildlife habitat. Detailed responses to 310 CMR 10.33(3) through (5) are:

- (3) Any project on Land Under a Salt Pond....shall not have an adverse effect on marine fisheries or wildlife habitat of such a pond caused by:
 - (a) Alteration of water circulation. These projects will maintain circulation in the salt ponds by maintenance.
 - (b) Alterations in the distribution of sediment grain size and the real elevation of the bottom topography. Continued maintenance will remove the build-up of material in shoaling areas to allow for safer navigation and more fisheries habitat.
 - (c) Modifications in the flow of fresh and/or salt water. The modifications that will be created by the projects will be in the flow of salt water and may improve fisheries habitat
 - (d) Alterations in the productivity of plants. The increase in flow and salinity may increase the area and density of any eel grass beds in the ponds. There is no eelgrass in the dredge area.
 - (e) Alterations in water quality, including, but not limited to, other normal fluctuations in the level of dissolved oxygen, nutrients, temperature or turbidity or the addition of pollutants. The projects will maintain the openings

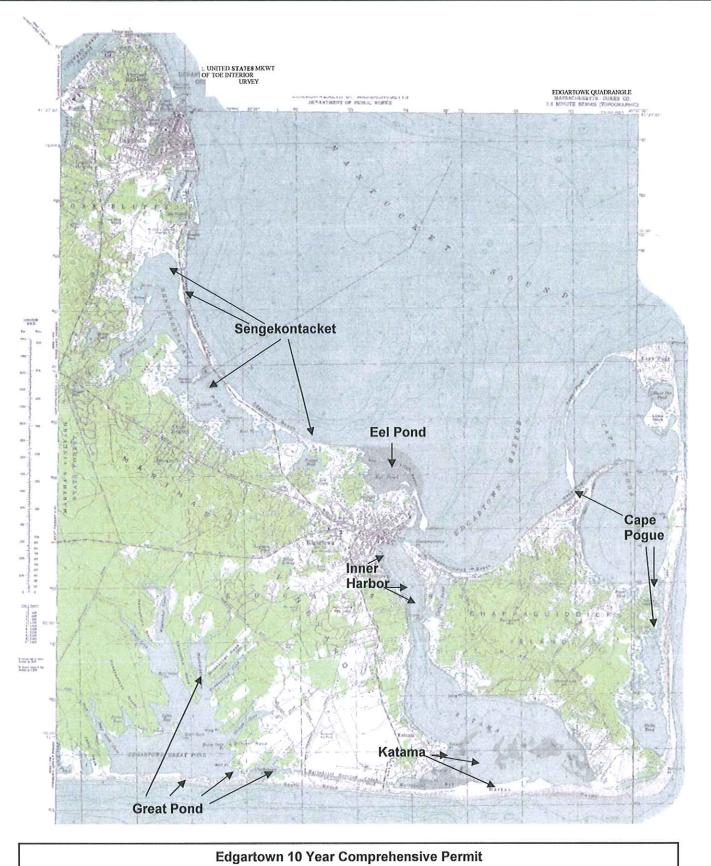
at the channels which will maintain and may improve the current level of water quality which will likely have a positive effect on marine fisheries.

- (4) "...activities specifically required and intended to maintain the depth and opening of the salt pond to the ocean in order to maintain or enhance the marine fisheries...may be permitted." This project will maintain fisheries habitat, and is designed to maintain the depth and opening of the salt ponds to the ocean.
- (5) "...no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species..." This project will provide additional and improved nesting habitat for State-listed shorebirds. There are no other know rare species in these ponds.

Coastal Resource Area: Banks of or Land Under the Ocean, Ponds, that underlie an Anadromous/Catadromous Fish Run (Fish Run): [310 CMR 10.35]

When such land or Bank is determined to be significant to the protection of Marine Fisheries, 310 CMR 10.35(3) through (5) shall apply:

- (3) Any project on such land or bank shall not have an adverse effect on the andromous or catadromous fish run by:
 - (a) **Impeding or obstructing the migration of fish.** Prohibiting dredging activity between March 15 and June 15th will prevent any obstruction to the migration of the fishery.
 - (b) Changing the volume or rate of flow within the fish run Rate of flow will be maintained/improved by this project and improve habitat for migration
 - (c) Impairing capacity of spawning or nursery habitats......Project is not located in the spawning or nursery habitat
- (4) Unless otherwise allowed by DMF.... Dredging, disposal of dredged material.....shall be prohibited between March 15th and June 15th in any year Project is will maintain this time of year restriction.
- (5)no project may be permitted which will have any adverse effect on specified habitat of rare vertebrate or invertebrate species..... Project is designed to have a positive effect and may improve habitat of any rare species



Edgartown 10 Year Comprehensive Permit Edgartown, MA

USGS Edgartown Quadrangle

Town of Edgartown Comprehensive Permit Project Description 10 year Update

Introduction

The following 10 year management and performance plan, updates areas that have benefited from being dredged and need to be maintained, those areas still needing dredging, and the beneficial reuse of dredged material as beach nourishment. The plan also proposes to update the permitting process, by combining all current permits into one 10 year comprehensive Town permit. This 10 year comprehensive permit would streamline the process of maintenance permit renewal. By combining projects, efficiencies of scale, reduction of mobilization and demobilization costs, and savings on sediment testing costs can also be achieved. Additionally, the need for dredging all areas can be met in a timely way with the least navigational and environmental disruption. 173,570 cy of material is currently permitted to be dredged for navigation. 1,853,344 sf of beach is permitted for renourishment.



Project Work

Project work is maintenance dredging that will be conducted with use of the Town owned hydraulic dredge. Hydraulic dredging has the least environmental impact of the dredging methods. A pipe system will be connected to the dredge, through which dredge spoils will move in a slurry and be discharged directly onto permitted sites, as beach nourishment. There are currently 12 areas permitted for renourishment and 17 sites permitted for dredging.

I. Project History & Background

The goal of the Dredging Management Plan Committee, now the Edgartown Dredge Advisory Committee, has been to implement and develop a long range master plan for dredging and dredging management. The Master Plan was completed in March 27, 1996. The plan was incorporated into the, *Edgartown Harbor Plan*, which was approved by the Secretary of Environmental Affairs on October 28, 1997. In 2003 the Dredge Advisory Committee updated and revised this valuable plan. Now, in 2009, the Committee is again updating and revising the Master Plan including a 10 year Comprehensive permit component.

The Dredge Committee had concluded that if the Town wants to accomplish its dredging goals with the least cost in a reasonable amount of time, it made fiscal and implementation sense to lease/purchase a dredge and conduct operations. After the Annual Town Meeting in April 1996, the voters overwhelmingly approved the establishment of the Edgartown Dredge program with the lease/purchase of its own Ellicott 370 dredge and related equipment.

The first project for the dredge program remains its largest, "The Interim Shore Protection Along Beach Road Project, Oak Bluffs/Edgartown", for the Massachusetts Highway Department. In addition to dredging an estimated 80,000 cubic yards (CY) of material to save Sylvia State Beach and State Road from erosion, the Town managed a subcontract to build the temporary groin field to further stabilize the beach. In its first year of operation the program leased and assembled a dredge plant, hired and trained a crew and obtained and completed a vital project to protect Beach Road valued at over \$800,000. This is a tremendous accomplishment for any undertaking whether public or private. As part of the Beach Road project the Town obtained a grant to retrain fishermen as dredge crew through the State and Federal Fishing Family Assistance Program. This program was used to train displaced fishermen again for the following two years, and the town continues to employ fishermen.

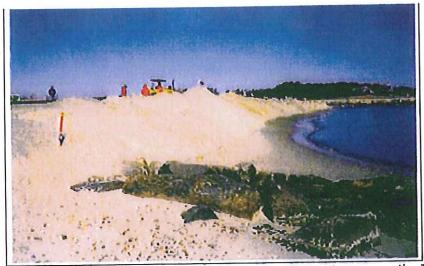
The inception of the dredge program showed the Towns commitment to fishermen and to improving the storm damage and flood control functions of beaches while restoring recreational values and endangered species habitat. This multiple benefit approach improves economics by providing opportunities, protecting resources that are the basis of existing economics, and restoring and enhancing our natural heritage. This approach is typical of all the projects of the dredge program. Miles of beach have been nourished. Navigation and mooring areas have been restored and need to be maintained. In addition, public access has been restored at three public boat ramps with one more scheduled for dredging. Finally, marine and herring habitat was restored at the Great Pond, Crackatuxet Cove, Herring Creek. All this is being done as the Town saves money by using its own dredge and pursuing project grants.

The Committee has sought to carry out dredging in the most cost effective and efficient manner. To that end the Committee has been successful in obtaining Mass Department of Environmental Management, Office of Waterways' grants, some private funding and public/private partnerships for many projects. In addition, the Town has provided dredging services to other Island towns funded by intergovernmental agreements, to maintain regional and local resources such as Sylvia State Beach and the Little Bridge Channel in Oak Bluffs, Vineyard Haven Harbor and Tashmoo Channel in Tisbury. The Committee makes Edgartown projects the top priority for the dredge and outside projects are only done secondarily and as the dredge is available. The Town will continue to seek partnerships in developing and implementing the dredge program.

In developing projects the most conservative approach is taken to protect natural habitats and the resources they produce, which are so valuable to the town. We believe this conservative approach continues to be the most effective in restoring our navigable waterways, nourishing our barrier beaches and protecting habitat. The information contained in this plan will be a guide for the Town's continuing efforts to maintain navigable waterways and the natural marine resources so important to seasonal and year round economies.

II. DESCRIPTION OF THE PROGRAM

The waterways of Edgartown, including; the Harbor, Cape Pogue Bay, Katama Bay, Sengekontacket Pond,



Calebs Pond, Eel Pond and Edgartown Great Pond are the most active waterways on the Island of Martha's Vineyard. These bodies of water support commercial fisheries, including shellfishing, which are an important year round economic activity and a long standing way of life in Edgartown. The historic and scenic harbor is a major destination port for recreational vessels in the region, and home to 700 commercial and recreational vessels with over 1,000 vessels in the harbor on an average summer day. The Harbormaster and his staff are responsible for safe navigation and public and environmental health in these busy waterways. The Harbormaster also manages town moorings, and a marina. These activities generate municipal funds while vessel owners stimulate the local economy.

The Ponds, Bays, Harbors and Beaches of Edgartown are some of the great scenic treasures of the Island. Since the inception of the dredge program, access to these waterways and public beaches has now been improved. One or more dredge projects with beach nourishment have been completed in each of these waterways. The Town's heritage of marine economics and natural beauty and diversity has been partially restored through this program. The Committee has identified new projects to continue this effort.

The Ponds and Bays are, and have been for centuries, the location of commercially harvestable shellfish. Some of the highest populations of quahogs, scallops and soft-shell clams in the state are found in these waterways. This is both a commercial and a recreational fishery. As stated in the harbor economic development plan, "The commercial fishing fleet in Edgartown is generally a fleet of open boats, between 12 and 40 feet. These boats are used for scalloping in the winter, quahoging and clamming during the spring and summer months, and occasionally fishing for flounder or other summer species such as striped bass, bluefish and scup". Shoaling of navigational channels poses a great health and economic threat to the fishermen using these boats especially, during the winter when a grounding in frigid waters can be life threatening. The shellfishing industry continues to provide significant year round employment, an often stated goal of Town and regional plans. The dredge program ensures access for both recreational and commercial fishermen.

III. DEVELOPMENT OF PROGRAM

The 1996 Dredging Master Plan cites the problem to be addressed, "present and future use of these unique New England waterways is now impaired. Shoaling in the harbor and all of the ponds is restricting access and threatening the safety of recreational vessels and shellfishermen." The Plan goes on to say, "Additionally, dredge material and its use at several sites will have multiple benefits for storm and flood control and wildlife habitat. A number of planning efforts have recognized the need for dredging and as a result the Town of Edgartown formed the Dredging Master Plan Committee. "Finally, the Plan linked its goals to those of other Town, Island and State planning efforts," This plan provides long-term dredging planning, which will complement goals and policies as recognized in the Draft Edgartown Harbor Plan, the Edgartown Harbor Economic Development Plan, the Town's Master Plan and Open Space Plan, the Martha's Vineyard Commission's Regional Island Plan, the Massachusetts Coastal Zone Management Program Policies and Commonwealth tidelands policy as detailed in MGL Chapter 91 and regulations 310 CMR 9." Because, the Plan was consistent with State policies and programs it was approved by the Secretary of Environmental Affairs and was highly ranked for funding by the Department of Environmental Management's Office of

Waterways. In subsequent years project grants from the Office of Waterways and project funding by the Massachusetts Highway Department were key to paying for the dredge plant as well as project services and labor.

The Dredge Program goals and activities since 1996 have also included environmental restoration of the Town's salt ponds, lagoons and estuaries. Wetlands restoration supports economic activity that is based on sustainable natural systems. This goal and activity was encouraged by the National Oceanic and Atmospheric Administration, National Marine Fisheries Service and the Mass Division of Marine Fisheries.

Restoration activities have included dredging the Great Pond's opening delta (Flat Inside) which resulted in the longest opening in memory, 66 days. Improvements to the Great Pond as marine habitat were immediate with the variety and number of finfish species increasing significantly. Shad was seen in the Pond for the first time in memory. Improved tidal exchange increased salinity an important growth and health factor for the oysters and other shellfish in the Pond. It is hoped that improved growth rates could revitalize the Pond's oyster fishery. The long opening has had an immediate effect on other valuable commercial and recreational fish including herring and the top of the food chain species Striped Bass (see Attachment VIII, Vineyard Gazette Article).

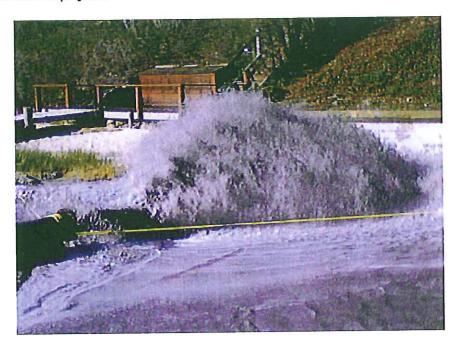
The herring fish way in the Great Pond was also dredged as part of a larger project to rebuild the sluice gate and restore the Great Ponds and Herring Creek estuarine system. This effort has been supported with funds and technical partnerships with the National Oceanic and Atmospheric Administration's, National Marine Fisheries Service, The Fish America Foundation, The Great Pond Foundation, the Mass Division of Marine Fisheries and many Committees and Commissions in the Town of Edgartown (see partners list, Attachment XIII). The Great Ponds and Herring Creek

Dredging the fish run in the Great Pond was a critical first step in restoring the surface water connections from the Great Pond to the Herring Creek and ultimately the ocean. Now herring can find there way from the ocean to spawning habitat in both the Great Pond and Crackatuxet Cove. The link between oceanic and brackish waters is made complete with the restoration of this estuary. This link completes a cycle of life that sustains one of the most productive biomes in the world.

In addition dredged sand was pumped to South Beach a barrier beach. This beach nourishment improved the beaches functions of providing storm damage and flood control and improving endangered species habitat.

Another long term goal of the Dredge Program had been the Town owned Bend in the Road Beach Restoration and State Road Protection project. The Town entered into a successful public/private partnership with the Cow Bay Association which resulted in a project with multiple benefits for storm and flood control, creation of wildlife habitat, and restoration of a popular public beach, and improved navigation at the Sengecontacket Pond entrance.

Bend in the Road is a heavily used public beach and part of the barrier beach system which protects the State Highway, Sengecontacket Pond, and Trapps Pond. Cow Bay beach is part of this system and located adjacent to and south of Bend in the Road. The entire system had become badly degraded. Restoration of this beach system has maximized storm damage protection for the State Highway, the Ponds and upland infrastructure while balancing environmental issues and recreational value. This includes improved beach access ways, dune enhancement and improved beach width. Additional habitat for endangered species was created and enhanced. This project will require maintenance. The Committee has plans to continue the Cow Bay Dune Restoration Project by identifying this area as a site for beneficial reuse of material dredged from navigation maintenance projects.



The need to maintain navigational channels is particularly critical to an Island town which relies on its waterways for much of its economic base. In addition, these projects are important to public health and safety as well as water dependent recreational and commercial interests. In each project the Committee has chosen environmentally sound approaches to limit impacts to natural systems while enhancing their role in providing storm and flood control and natural habitat. Navigation channels in Eel Pond, Katama Bay, Cape Pogue and Caleb's Pond improved access for commercial and recreational shellfishermen. Increased flow may have enhanced shellfish habitat and now support Town shellfish nurseries. Eel Pond navigation channel has been identified as an area which will require additional improvement dredging due to continued severe shoaling, which is restricting recreational boaters and shellfishing access. This shoaling has restricted flow into Eel Pond resulting in poor water quality and shellfish harvesting closures.

Within the vicinity of these projects there are several public properties with water dependent uses. Some of the more important vessel support infrastructure and recreational locations include: Boulevard Landing; Eel Pond landing; Memorial Wharf; Cottage St. ramp; Katama boat ramp; and Wasque landing. The Katama and Eel Pond boat ramps and channels have been dredged and need regular maintenance. In addition the Wilson's Landing ramp is permitted for dredging.

The Committee has and will continue to pursue the most cost effective and efficient approach to dredging the harbor and ponds. To that end the Committee will continue its successful strategy of seeking private and public partnerships to implement projects. Funding partnerships have been successful with the State Department of Environmental Management's (DEM) Office of Waterways, the NOAA's National Marine Fisheries Service, the Fish America Foundation, the Great Pond Foundation, the Seaport Council and private

landowners. In addition the dredge has completed projects in Tisbury and Oak Bluffs. By combining projects, efficiencies of scale, reduction of mobilization and demobilization costs, and savings on sediment testing costs can be achieved. Additionally, the need for dredging all areas can be met in a timely way with the least navigational and environmental disruption.

As in the first management plan, the need for maintenance of these sites will be prioritized based on the Department of Environmental Management's twelve criteria for reimbursement for dredge projects, considerations of cost savings through combining projects, and permitting issues. Each attribute was given a score of one as applied to each project and were totaled to give a quantitative measure to each project. The attributes used in prioritization included:

- 1. Available funding;
- 2. Public property, public access;
- 3. Public access:
- 4. Town maintained;
- 5. Public safety;
- 6. Existing engineering, permits;
- 7. Urgency;
- 8. Water dependent;
- 9. Public purpose;
- 10. Multiple objectives;
- 11. Beach nourishment;
- 12. Local design/permitting funding.

The Committee is continuously monitoring all sites in order to set priorities.

The waterways of Edgartown have a continuing need for maintenance dredging. Big Flat in Sengekontacket needs to be dredged again for beach nourishment and other ponds and bays have not been dredged in over 25 years. Even with ongoing renourishment, pounding storms will continue to erode the Sengekontacket barrier beach from the Little Bridge to Trapps Pond, impairing its function for storm and flood control. State and federal Agencies have been working for years to manage the erosion on this beach. Their Draft Memorandum of Agreement includes beach nourishment of 80,000 cubic yards. The Committee has maintenance permits to protect even more of this barrier beach. This beach is monitored regularly following a recently developed Beach Management plan.

As a result of reduced depths there is a continuing need to dredge and maintain navigation projects. Established channels and ramps require maintenance to prevent commercial fishing vessels and recreational vessels to navigate safely. Maintenance dredging is needed for the shellfishing fleet to continue to safely navigate and maintain tidal exchange into Cape Pogue, Pocha Pond, Eel Pond, and Sengekontacket Pond. Shoaling in these channels and ponds also restricts recreational vessels. The federal project within the harbor has not been dredged since September 1939. As a result of surveys and depth soundings by the harbormaster, thirty areas were identified as needing dredging in 1996. Dredging is a continuous management option to maintain navigation and restore tidal exchange. Completed projects continue to shoal over time and require maintenance dredging, as will the projects not yet completed by the dredge program.

Edgartown Harbor is one of the busiest on Cape Cod and the Islands. Some shoaling areas in the harbor have been dredged, particularly near the Lighthouse, Inner Harbor and at Collins Beach, all requiring maintenance. Shoaling remains in a portion of the mooring areas and increases the potential for grounding and the possibility of collisions with other vessels. This danger is increased when one considers the narrow channel (400') that connects the outer harbor with the inner harbor where the Chappaquiddick ferry crosses. The combination of the increase in current velocity as a result of the Katama breach in 2007 and the increased rate of shoaling near the ferry crossing represent a threat to public safety and public health by:

-restricting vessels from using the established course;

-potential vessel damages from avoiding and/or coming in contact with the hazard

-jeopardizing safe turning and berthing in both the channel and anchorage areas;

-impairing clear line of site and access from anchorage areas to navigation channels

IV. WATER DEPENDENCY & PUBLIC PURPOSE TO BE SERVED BY THE PROGRAM

Constituency

The dredging completed to date has begun to restore access to the waterways, improve tidal exchange and renourish eroded beaches. With the continuation of this program Edgartown's need for dredging and beach nourishment will continue to be met and have a positive impact on the beaches and waterways enjoyed by the entire Island and visitors from all over the United States and abroad. A vast and diverse constituency is being served by the completed projects. The harbor's public access ramps have both been improved or restored by dredging projects at Katama boat ramp and Eel Pond. This provides boating opportunities to many other residents of the region who participate in the Town's and larger regional economy. Restoring tidal exchange and marine habitat restores shellfish and game fish both are fundamental to a way of life in Edgartown. There are approximately 1,000 vessels in the harbor on an average summer day. Perhaps, more important to the community is the year round fishing fleet which relies on open navigation channels and vessel infrastructure. Adequate depths in channels and at wharfs and ramps remain critical to this fleet and therefore the maritime character of the town.

Economics

The unmet demand for dredging would have a deleterious effect on the waterways' economic benefits at the local, regional and state levels. Edgartown's economy is fueled by its restaurants, shops marinas, and commercial fishing fleet in its downtown harbor area. Navigation channels and anchorages are the roadways of the water, and their management including dredging is critical for water dependent business and secondary businesses which provide jobs and tax revenues for the town and the state. The lure of a charming active harbor and coast is a unique New England asset that attracts tourists. Dredging helps maintain these waterways and therefore supports these businesses helping them to continue to be an important part of our economy helping support the tax base.

Commercial fisheries are dependent on Edgartown Harbor and access to the shellfish beds in the ponds. This fishery makes a significant contribution to the year round economy. The Harbor provides quick access to fishing grounds and fish buyers.

The dredge program has partners who are studying impacts from dredging on tidal exchange as a result of the Great Pond delta dredging. Various water quality factors, such as salinity, dissolved oxygen, water elevation, temperature and turbidity have been monitored. Arthur Gaines, Coast & Harbor, conducted the study for the Great Pond Foundation which concluded that the "inlet opening event demonstrated beyond question that in-pond geometry near the inlet site is crucial to the success (duration) of the opening", (See Gaines, A.G., (2001). An Assessment of Dredging Effects on Inlet Management in Edgartown Great Pond, Progress Report 1. Coast & Harbor, Woods Hole, MA. 10pp. Attachment X). The April 2001 opening remained open for 66 days the longest opening in memory. Ocean salinities (30 + ppt) were achieved in four days and remained for the duration of the opening. Thus, the dredging helped establish the conditions necessary for commercially and recreationally important fin fish and in this way supported businesses based on these fish (see, Lovewell, M.A. (2001) Along a New Pathway to the Sea: Barrier Beach Opening Restores Failing Health of a Great Pond, Vineyard Gazette, Edgartown, MA. 1pp. Attachment VIII). In addition, it is hoped that if this level of tidal exchange can be achieved during the shellfish growth season (summer) then oyster growth rates and catch can be increased. This oyster fishery is the most significant commercial fishery in the Pond. Its recovery would be a significant boost to the shellfishing industry and its supporting businesses. Although scientific certainty regarding

projects impacts to resources is not attainable the Committee will continue to seek partnerships and grants to provide scientific guidance for its project decisions.

Edgartown continues to be among the states leaders in shellfish catch. Conch remains a valuable fishery with landings of 555,000 pounds worth \$385,000 in 2001. These fisheries are particularly important to the town's and Island's economies as they seek to maintain economic diversity and year round employment opportunities. The state Division of Marine Fisheries uses an economic multiplier of four for calculating the value of fisheries in the larger economy. This means that the dollar value of fish landed is turned over in the community 4 times resulting in an overall value to the economy of \$4,420,880 for shellfish alone in 2001 (see Chart 1). Without dredging this centuries old lifestyle could vanish along with an important contribution to local, regional and state economies. The state and federal governments can support this industry by dredging and nourishing protective beaches.

V. MULTIPLE PROJECT BENEFITS

The Committee has implemented projects with multiple benefits and future projects will continue that policy. Some of these benefits include vessel safety, flood control and storm protection, infrastructure protection, public beach enhancement and habitat restoration. The Town supports the public's access to these restored areas and has dredged three public boat ramps with two others scheduled for dredging. The town ensures equal opportunity and access for all to the ponds, bays and harbors.

While improving access the town is also improving and monitoring water quality. Water tests show the water within Edgartown Harbor is clean with very low traces of fecal coliform. A public boat pump-out program has been running in the harbor funded through the Clean Vessel Act. This program helps maintain and improve water quality and therefore water dependent uses. Dredging the entrances to Cape Pogue and Calebs Pond has improved water quality in the Ponds and resulted in successful shellfish propagation programs. Bacteria levels in Sengecontacket Pond are at an all time high and shellfishing is closed from June to September. Permits are being sought to dredge the inlets and an existing inside channel in an attempt to improve water quality.

It is apparent that dredging and beach nourishment will have multiple benefits and will ensure the vitality of Edgartown waterways well into the twenty-first century. To date miles of barrier and coastal beaches have been nourished and navigation channels and mooring areas restored or improved to design depths, three boat ramps are restored. In addition, endangered species habitat has been created and marine habitat restored.

The Town owned, dredge system has also provided a low cost dredging alternative for other towns on the island. Revenues from leasing the dredge for this purpose has helped pay the Town's equipment expenses and will secondarily help the Town pay for waterways improvements such as boat ramps, wharfs and other needs identified in the harbor comprehensive and economic plans. By "keeping up" with dredging needs this system leads to smaller maintenance dredging projects which are less disruptive to the environment.

Finally, the Committee will continue to explore the possibility of grant funds to study the impacts of maintenance dredging on shellfish production and habitats including eelgrass and barrier beach communities. Paul Bagnall, Shellfish Constable, is part of the Committee and the Committee will continue to work with, the Mass Division of Marine Fisheries, National Marine Fisheries, The Great Pond Foundation, the University of Massachusetts and Boston University and private consultants to understand the programs impacts and restore marine habitat.

VI. SUPPORT FOR THE PROGRAM

The town of Edgartown strongly supports this program not only because it in turn supports important commercial and recreational interests within the town. Town Meeting voters have allocated funds for this

program on an annual basis for labor, capital plant maintenance and engineering and management and permitting services every year since 1996. The project is also supported because maintenance of Edgartown waterways and storm control is synonymous with supporting the character, history and future of the town.



The Town is prepared to provide its cost share for these projects through operation, maintenance and capital costs of its dredge and services.

VII. TOWN OWNED HYDRAULIC DREDGE SYSTEM

As with any infrastructure project the cost of dredging is high. However, dredging is critical to maintaining navigation and our link to coastal resources. As an island community this transportation link provides us with access to the resources that help maintain our independence and define our character.

Dredging involves very specific scientific information and equipment that must be brought to the project location. Thus incurring mobilization and demobilization costs, often significant portions of the total project cost. Additional factors contributing to the high cost of dredging on the island include lack of competition in the private marketplace (there is no hydraulic dredging company on the island), and higher than average mobilization costs due to the distance to the mainland. Add to these conditions the fact that the Department of Environmental Management spends only an estimated \$1.5 million on the island every ten years and you begin to get a picture of why so many Island waterways are long overdue for dredging. In order to address this public need the Dredge Advisory Committee with Town Meeting approval established the Town dredge program.

Elements of the dredge system include capital equipment, management, and staffing. An Ellicott 370 hydraulic dredge with 3,000 ft. of pipe, a pipe fusing machine and two support boats are part of the system. In 2002 an additional 3,000 ft. of pipe was purchased with DEM funds. In 2008 and additional 1000' of pipe was purchased. The dredge plant is sized to meet the dredging needs of Edgartown and is useful to other towns and has been used along with crew by Tisbury and Oak Bluffs under intergovernmental agreements. This dredge pumps primarily clean fine to medium sand at depths less than 15 feet. The dredge draws only 4 ft. so it can access the many ponds and bays needing dredging. With the use of 12" discharge pipe and disposal primarily by direct pumping to nourishment sites, production can be expected at 100 cubic yards per hour. The Town does on occasion lease a booster pump, if it becomes necessary to pump material over 4000 feet.

VIII. Permitting

Dredging remains a complicated and costly endeavor. Permitting on both the State and Federal levels has become more streamlined but is still not efficient. Each Dredging project requires permits from several agencies Local Con Com, DEP Wetlands & Waterways, DEP Chp91, 401 Water Quality Certificate, and the Army Corps of Engineers. Presently the town holds permits for 15 dredging and beach nourishment projects and each permit expires at a different time. It can be cumbersome when addressing immediate dredging needs.

A comprehensive Town Dredging maintenance permit will simplify the permitting process. By combining projects, efficiencies of scale, reduction of mobilization and demobilization costs, and savings on sediment testing costs can also be achieved. Additionally, the need for dredging all areas can be met in a timely way with the least navigational and environmental disruption.

Town of Edgartown Dredge
Past and Projected Dredge Project Schedule

Location	Date	Ţ	Туре	Cubic	Cubic Yardage
	100000000000000000000000000000000000000			:	1
	Year	New/	Done Tr	CY	CY
Sengecontacket					
Beach Nourish Proj		z	1997	80,000	30,000
Bridge to Trapps	2013	Z			80,000
Blvd Chan	2013	Z			20,000
Bend in the Road	2009	z	2009	10,000	
	2016	Z			
	2019	Z			
Cow Bay Dunes	2009	z	2009	30,000	
	2019	3			
Senge Oak Bluffs					
Big Channel	2009	N/M		10,000	
Little Bridge		Z	2002	3000	
Cape Pogue					
Outside Flat	2011	Z			1,000
Gut, Narrows, Dyke Bridge		Z	1998	1800	
		M	2003		
		Z	2007		
	2011	3		1800	3000
	2014	3			
	2017	Z			
Eel Pond					
		z	1999	7100	
		3	2000	7100	
		Z	2004	7100	
		Z	2007	7100	
	2010	M/N		7100	30,000
	2014	3			
	2017	Z			
Harbor					
Light House Pond	2012	z			40000
Light House Point	2012	z			15000
LightHouse Culvert		Z	1999	2000	
	2012	Z			
Collins Beach		Z	2001	2900	
		Z	2002	2900	
		Z	2003	2900	
Inner Harbor		z	2002	8500	
Collins Beach, Inner Harb	2013	M/N		11400	15000
	2016				

5/31/2009

Town of Edgartown Dredge
Past and Projected Dredge Project Schedule

	Year	New/	Yr Last	Permit	Future
70	Sched	Maint	Done	CY	CY
Calebs Pond		z	2006	8800	
	2014	3		8800	10000
	2017	×			
	2020	M			
Katama					
Boat Ramp & Channel		Z	1999	9390	
		Z	2005	9390	
Katama E/W Chan		Z	2005	4000	
		Z	2007	14390	
	2013	Z			
	2015	Z			
	2018	M			
	2020	Z			
Mattakeeset	2012	Z			20000
Great Pond					
Barrier Beach	2010	z			15000
Jacobs Pond	2010	z			5000
Swan Neck	2010	z			10000
Wilson Boat Ramp	2010	Z		500	
Opening/flat		z	2001	9800	
Sluiceway		Z	2002	9800	
Opening and Sluiceway		Z	2004	19600	
	2010	Z			
	2013	M			
	2015	Z			
HC Restoration		z	2004		
Tisbury					
Tashmoo		z	1998	8800	
		Z	2002	10000	
		Z	2004	5556	
	2009	3		10,000	
North Groin		z	2000	4300	
	2009	3		4300	
Back Channel	2009	M/N		15000	

Town of Edgartown Comprehensive Maintenance Permit Dredging and Nourishment Area Square Footage/ Cubic yardage estimates

Nourishment Areas	Total SF	Above HTL	MHW-HTL	MLW-MHW	Above MHW	Below MHW
Cape Pogue Elbow	148,000	148000				
Narrows (Trails/beach)	86000				86,000	
Dike Bridge (OVR Trails)	21000	21000				4.67000
Eel Pond Barrier Island, Beach	217,000	50000				167000
Eel Pond Froelich (Private)	29200	9700	19500			
Lighthouse (Fuller) Beach	82,000				74580	7420
Area "E" (Private)	68,500	50,000	5700	12800		
Area "A-"D","F" (Private)	93230	27375	8575	20300		36710
Norton Point	153,500	153500				
South Beach	213,630	85640	72143	55,847		
Great Pond Ramp	10,270	10270				
Bend in the Road Beach	71874	23957				47917
Cow Bay Dunes (Private)	175113				175113	
Sylvia State Beach	484,027	464749			P.	19278
Nourishment Total SF	1,853,344	1,044,191	105918	88947	335693	278325

Dredge Sites	Total SF	Total cy	Project areas
Borrow Area #1	720,000	68,000	Sengecontacket Pond (Edgartown)
Borrow Area #2	147,814	2500	Sengecontacket Pond (Oak Bluffs)
Great Pond	253186	19,600	Channel, Sluiceway,
Herring Creek Restoration	15000	5400	Herring Creek
Great Pond Ramp	3415	500	Wilson Landing
Total Salt Pond	1,009,415	96,000	

		472 F70a	
Total Land under Ocean	705,325	77570	
Katama Bay	147834	13,365	Ramp and channel, Katama Bay
Inner Harbor	239690	40805	Harbor, Lighthouse, Collins, Calebs Pond
Cape Pogue	228500	14,800	
Eel Pond (EP)	59000	4600	Ramp, Channel,
Little Bridge	12,000	4000	Sengecontacket Pond (Oak Bluffs)

173,570c
Dredging Total SF/CY 1,714,740 SF y