## **Costs for Priority Actions to Restore and Protect Ocean and Coastal Habitats in Maine, New Hampshire and Massachusetts** KEY TO STATE AGENCIES:

MA-DFG Mass. Department of Fish and Game Mass. Department of Environmental Restoration MA-DER MA-DEP Mass. Department of Environmental Protection MA-CZM Mass. Office of Coastal Zone Management NH-DES New Hampshire Dept of Environmental Services NHCP New Hampshire Coastal Program NHGS New Hampshire Geological Survey NHF&G New Hampshire Fish and Game NHDRED New Hampshire Department of Resources and Economic Development Maine Department of Marine Resources ME-DMR ME-SPO Maine State Planning Office ME-DOT Maine Department of Transportation Maine Department of Environmental Protection ME-DEP Maine Department of Inland Fisheries and Wildlife ME-IF&W MEDOC Maine Department of Conservation

Goal	Issue	Priority Action			Short-Term Need (5 years)
1: PROT	FECT AND R	<b>RESTORE WILDLIFE</b>	HABITAT AND P	OPULATIONS	267,513,000
	1.1: Barr	riers in Rivers and S			62,100,000
		1.1.1: Improve str		rossings (culverts & bridges).	14,500,000
			ME DMR/SPO	Culvert assessment and prioritization of corrective action	1,250,000
			MA DER	Culvert assessment and replacement for fish passage	2,000,000
			NHCP, other	Culvert assessment and replacement for fish passage	750,000
			ME		
			DMR/SPO/DOT	Municipal and State road crossing upgrades	8,000,000
			ME		
			DMR/SPO/DOT	Stream restoration program	2,400,000
			NHDES-WAS	Stream Restoration	100,000
		1.1.2: Remove uni	needed dams or in	istall fish passage.	47,600,000
			MA DER	Dam assessment and removal in coastal watersheds	20,000,000
			NHCP	Dam assessment and removal in coastal watersheds	900,000
			NHDES-Dam		
			bureau	Dam assessment and removal in coastal watersheds	500,000
			ME- DMR/SPO	Dam assessment, removal and fish passage installation	26,200,000
	1.2: [	Degraded Coastal	•		84,488,000
		1.2.1: Assess and restrictions, and of		habitat by removing dredge spoils, planting vegetation, removing tidal	42,750,000
			MA DER	Coastal wetlands restoration	20,000,000
			ME SPO/DOT	Coastal wetland restoration program	9,200,000
			MA DEP	Coastal wetland protection program	250,000
			MA DMF	Eel Grass & Shellfish habitat restoration	1,000,000
			MA DEP Res.		1,000,000
			Prot.	Coastal Habitat Protection-	500,000
			nhcp	future projects yet to be initiated; Physical habitat restoration program -	200,000
			NHDES	Freshwater wetland restoration in coastal watersheds; Physical habitat	2,300,000
				Support for targeted coastal watershed improvement through Southeast	100,000
			nhcp	Isupport for targeted coastal watersned improvement tilfough Southeast	100,0

		nhcp	Habitat Restoration coordination	100,000
		prep/nhdes	Assess and map Eel Grass habitat for restoration	50,000
		NH-DES	Habitat Mapping; aerial photo acquisition program (3-5 yr cycle)	650,000
		UNH	Habitat Monitoring & Assessment; change detection	50,000
			Freshwater wetland restoration in coastal watersheds; Physical habitat	
		MA DER	restoration program - wetlands	5,000,000
		MA DER	Riparian and floodplain restoration	2,000,000
		NHCP/TNC	Eel Grass & Shellfish habitat restoration	750,000
			Assessment of habitat throughout a river corridor that would provide	· · · ·
		NH F&G	habitat for diadromous species and provide an estimate for restoration	100,000
		NH F&G	Oyster habitat assessment, substrate restoration, seeding	500,000
	1.2.2: Conduct hy	/drology studies, re	mote sensing, mapping, and restoration.	41,738,000
		MA DER	Stream flow assessment and restoration	4,000,000
		MA DEP	Eel Grass monitoring & assessment	1,800,000
			Coastal Wetlands Habitat Mapping, Monitoring and Assessment inc. Loss	
		MA DEP	Identification	2,750,000
		MA DMF	Anadromous Fish Program	30,000,000
			Develop/implement water quality and quantity plans for diadromous fish	
		ME DMR/DOC	pops	3,187,500
1.3: D	ecline of Shoreland H	abitats		47,000,000
			t key parcels of coastal land.	47,000,000
		MA-CZM	Coastal Land Acquisition CELP	15,000,000
		nhcp	Coastal Land Acquisition CELP	3,000,000
		ME IFW	Strategic Coastal Land Acquisition	8,500,000
		Multi state	Protection of river corridors/riparian open space via purchase or CR	20,000,000
		nhcp	Protection of river corridors/riparian buffers	500,000
1 4.10	ost Fishing Gear			2,850,000
1.7. 5		remove ahost fishi	ing gear and lobster traps.	2,850,000
		NHCP/ BOS	Ghost gear, ghost fishing gear, lobster gear; Lobster Program	100,000
		MA DMF	Ghost gear, ghost fishing gear, lobster gear	2,500,000
		ME DMR	Assess scope of derelict lobster gear issue	250,000
1.5: H	abitat Mapping			21,550,000
			nabitats in the Gulf of Maine and make the maps available for resource	
	management and			21,550,000
		MA CZM	Mapping & characterization; Ocean Management Planning	1,000,000
		MA CZM & DMF	Ocean Observing Systems Buoys/ instrumentation	5,000,000
		ME DMR/NH	Sub tidal benthic mapping & benthic habitat delineation	2,000,000
		ME DOC	Intertidal mapping/natural community delineation	500,000
		ME IF&W	Beginning w/ Habitat coastal habitat mapping, planning and data	1,250,000
		MA DMF NHCP/ NHGS	Estuarine Monitoring Program Mapping & characterization; Ocean Management Planning	5,000,000 300,000
		NHCP/ NHGS	Bottom mapping & benthic habitat delineation	1,500,000
		MA DFG-DMF	Nearshore ocean/estuarine observing system	5,000,000
1.6: M	onitoring Fish and W			49,525,000
			nated monitoring program for species of interest for management and	
1	restoration. Integ	rate the results into	o adaptive management processes.	49,525,000

			Demersal and pelagic species; coastal trawl surveys; commercial and	
		MA DMF	recreational fishing pressure; anadromous fish management	12,000,000
		MA DMF	Marine mammals & sea turle assessments; Protected Species Program Monitoring of Critical Biological Resources to Support Ocean Management	2,500,000
		MA CZM	Plan	500,000
		ME DMR	Acoustic surveys for pelagic species pop assessments	10,000,000
		ME DMR	Trawl Survey population assessments & trophic dynamics	10,000,000
		ME IF&W	Stewardship of coastal management areas/lands	875,000
		ME DMR	Large River System diadromous fish population monitoring	10,000,000
		ME DMR	Conservation Hatchery & Stocking	2,800,000
		NHF&G	Conservation Hatchery & Stocking	50,000
		NHF&G/ME	Marine systems; Coastal Trawl Survey	50,000
			Estuarine systems; Estuarine Monitoring Program; water quality, bio-	
		NHF&G	monitoring, juvenile finfish, horseshoe crab survey, Oyster survey	100,000
			Anadromous Fisheries Program; also ID, monitor & restoration, rainbow	
		NHF&G	smelt monitoring, American eel monitoring	200,000
			Marine systems, invertebrates; GOM Northern Shrimp Survey; Lobster	
		NHF&G	survey and sampling	50,000
		NH F&G	Smelt habitat restoration	50,000
		NHF&G	Assessment of commercial & recreational fishing pressure; Fisheries	350,000
GOAL 2: PF	ROVIDE CLEAN AND HEAL	THY COASTAL W	ATERS	2,689,626,000
2	2.1: Outdated Sewage Tre	atment Facilities		2,504,011,000
	2.1.1: Upgrade r	nunicipal and indu	strial sewage treatment systems and combined sewer overflow systems to	
			dards, including nutrient standards.	2,504,011,000
		MA DEP	Nutrient reduction & discharge elimination to Coastal Waters; SRF prog.	1,800,000,000
		NHDES	Nutrient reduction & discharge elimination to Coastal Waters; SRF prog.	380,000,000
		NHDES	Identify & repair non-compliant point sources of pollution; Shellfish	200,000
		ME-DEP	Waste Water Treatment Upgrades	400,000,000
		ME-DEP	Combined Sewer Overflow Abatement Program	133,000,000
		ME-DEP	Upgrades for three 301 waiver facilities from primary to secondary	14,811,000
		ME-DEP	Nutrient criteria/standards development and monitoring	1 000 000
		ME-DEP	Overboard (Untreated) Discharge Removal Grant Program	5,000,000
		NHDES	Overboard (Untreated) Discharge Removal Grant Program     Combined sewage overflow remediation	5,000,000
2	2.2: Non-Point Source Poll	NHDES	Combined sewage overflow remediation	5,000,000
2	2.2.1: Locate, pr	NHDES ution ioritize, resolve, a	Combined sewage overflow remediation	1,000,000 5,000,000 10,000,000 140,430,000
2	2.2.1: Locate, pr	NHDES ution joritize, resolve, a collection, mitigat	Combined sewage overflow remediation	5,000,000 10,000,000 140,430,000 96,510,000
2	2.2.1: Locate, pr	NHDES ution ioritize, resolve, a collection, mitigat MA DEP	Combined sewage overflow remediation	5,000,000 10,000,000 140,430,000 <u>96,510,000</u> 35,000,000
2	2.2.1: Locate, pr	NHDES ution ioritize, resolve, a collection, mitigat MA DEP NHDES	Combined sewage overflow remediation	5,000,000 10,000,000 140,430,000 96,510,000 35,000,000 50,000,000
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	2.2.1: Locate, pr program of data	NHDES ution ioritize, resolve, a collection, mitigat MA DEP NHDES NHDES NHDES NHDES NHDES NHDES NH F&G/DES NH F&G/ME MEDEP	Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation   Image: Combined sewage overflow remediation Image: Combined sewage overflow remediation </td <td>5,000,000 10,000,000 140,430,000 96,510,000 35,000,000 1,000,000 200,000 60,000 200,000 50,000</td>	5,000,000 10,000,000 140,430,000 96,510,000 35,000,000 1,000,000 200,000 60,000 200,000 50,000
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		MEDEP	Maine Municipal Stormwater Program upgrade and expansion	4,740,000
2.2.0	Untion Discharge	from Veccele		2 060 00
2.3: P	ollution Discharge			3,060,00
			s in the ocean and provide port facilities for boats and ships to dispose all of	
	their waste stre	eams (wastewater, so		3,060,00
		NHDES	Increase infrastructure of vessel sewage disposal; Clean Vessel Act	60,00
		MA CZM	Commercial Boat Pumpouts	1,500,00
		MA CZM	Marina Technical Assistance	750,00
		MA DMF	Recreational vessel sewage disposal	750,00
		ME		
2.4. 74	oxic Sediment			11,500,00
2.4:10		to contaminated cod	iment at priority cites in coastal waters and rivers	
	Z.4.1: Reffieula	ale contaminated sed	iment at priority sites in coastal waters and rivers.	11,500,00
			Remediation of contaminated sediments in association with river	
		MA DER	restoration projects	10,000,00
		NHCP	Remediation of contaminated sediments in association with river	1,500,000
2.5: W	ater Testing			30,625,00
			ographic coverage of water testing and implement state-of-the-art	
	monitoring pro			30,625,000
		ME-DMR	Hydrographic studies at wastewater treatment plants	1,250,000
		ME DEP	Coastal / estuarine Biological Condition Gradient (BCG) development and	1,000,000
		ME-DMR	Watershed monitoring and coordination, including nutrient monitoring	5,000,00
		NHDES-WAS	Coastal water quality assessment; 604b program	600,000
		NHDES	Coastal water quality improvement; 401 program	300,000
		NH F&G/DES NHDES	Implement recommendations as outline in coastal sedimentation study	400,000
		ME/MA/NH/CA	Coastal Wetland & Water Quality Research and Development; 104b GulfWatch toxic contaminant moniroting using blue mussels	250,000
		ME-DEP	Surface Water Ambient Toxics Program (SWAT) expansion and upgrades	2,500,000
			Toxic monitoring of shellfish resources around marinas	
<u> </u>		ME-DMR ME-DMR	Red Tide/HAB work, including use of new approved testing methods	2,500,000
		ME-DMR ME-DMR	Virus monitoring	1,000,000
		NHDES	Red Tide	75,000
		MA DEP	Coastal Wetland & Water Quality Research and Development; 104b	1,500,000
<del></del>		MA DEP	Coastal water quality assessment; 604b program	2,500,000
		MA DEP MA DFG-DMF	Virus monitoring	1,250,000
		MA DEP	Coastal water quality improvement; 401 program	2,500,000
			Red Tide/HAB work, including use of new approved testing methods;	2,500,000
		MA DMF	Biotoxin Monitoring Program	1,000,000
		MA CZM	Emerging Pollutants Assessment	750,000
				, 50,000
		I		
3: PROVID		ING. AND COMMU	NICATION REQUIRED FOR REGIONAL OCEAN MANAGEMENT, MARINE	
		TEM-BASED MANAG		29,700,00
			ation, Conservation, and Management Actions	16,500,000
			process for implementation of the Priority Actions that (a) engages diverse	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			(b) accurately reflects their values and priorities, (c) integrates across	
			es, and (d) is based on sound science.	16,500,00
	generic o	NHCP	Support to regional planning commissions for ecologically based decision	250,000
		ME IFW	Coastal Wildlife Species of Greatest Conservation Need Monitoring and	7,500,000
		ME IFW	Maine Endangered Species Act, coastal species management/recovery	7,500,000
				250,00
		ME IFW	Wildlife Concentration areas update flights for Oil Spill Preparedness	27010

3.2: Ar	nalysis of Ecosystem			1,750,
	3.2.1: Fully imple	ment the Habitat	Monitoring Partnership, the Ecosystem Indicator Partnership, and a	
	socioeconomic mo	nitoring program	to provide essential information for adaptive management.	1,750,
		Multi state	Scientific research, assessment and monitoring at watershed/ecosystem	
		agencies (MA)	scale of ecological integrity & stressors; Multi-state agencies	100,
		MA CZM	Ocean Indicators; Ocean Mgt Planning	500,
		NH Multiple	Scientific research, assessment and monitoring at watershed/ecosystem	/
		state agencies		300,
		NHCP	Ocean Indicators; Ocean Mgt Planning	300,
		MA CZM	Monitoring of Critical Biological Resources to Support Ocean Management	500
		NHDES/UNH	Monitoring of critical biological resources to support ocean planning	50,
3 3. 00	mmunication of Poli	cy- and Manage	ement-Relevant Science	3,400,
5.5. 60				5,400,
			nications program that provides (a) educational and outreach opportunities	
			d decision-maker understanding of coastal resources (e.g, findings from	
			ms and ecosystem indicators), the economic values associated with	
			scientifically sound methods for restoring and sustaining the Gulf of Maine,	
			ers and decision-makers involved in regional planning to interact	
	meaningfully on a			3,400,
		MA DER	Provide educational & outreach opportunities to increase public & decision	500
		ME DOC	Interpretive program for State Parks incorporating climate change &	500,
		ME DOC	Development of an Interpretive Center at Ferry Beach State Park to	1,500,
		NHDES	pollution load reduction modeling and communication especially for	400,
		ME IFW	Div. of Public Information and Education outreach efforts	500,
3.4: Da	ata and Decision Sup	port for Ecosyst	em-Based Management and Marine Spatial Planning	4,300,
	3.4.1: Develop an	integrated, regio	onal data management network that is robust with searchable metadata, user	
	friendly, and inter	operable with exis	sting state, federal, and non-government data management investments.	4,300
		MA CZM	Data Server to Assist with Ocean Planning	500
		ME IFW	Off-shore Energy Review Data Development	1,000,
		NHCP	Ocean Atlas	200
			Develop holistic, ecological restoration approach/program for targeted	
		MA DFG-DER	coastal watershed	500
		GBNERR	Ocean Mgt Planning	100
		ME DMR	Bay-scale, ecosytem-based resource management	2,000
				2,000
2 51 01	vorsight Coordinatio	n and Evaluatio	on of Regional Priority Actions	3,750
3.5.0			r other administrative framework and designate personnel for managing,	5,750
				2 750
	coordinating, and	evaluating the re	gional initiative.	3,750
				2 750
		Various Agenci	es 2 FTEs (\$250k) per state (x3) per 5 years (x5)	3,750
	TE RESILIENCE TO CL			33,800,
4.1: Ur	nderstanding Impacts			8,500
	4.1.1: Conduct re	gional scientific m	nonitoring and assessment of climate change impacts on habitats.	8,500
			Conduct studies focused on assessing impacts related to climate change;	
		NHDES	Climate Adaptation Workgroup	400
		ME DOC	Ecological climate change monitoring at coastal parks & ecological	100
		MA DER	Assess habitat impacts related to climate change and implement	2,000
		MA DMF	Conduct studies focused on assessing impacts related to climate change i	2,000
		MA DMF MA DER	Conduct studies focused on assessing impacts related to Climate Change Freshwater aquatic habitat adaption assessment/ planning/facilitation	2,000 2,000

4 2. Drops	ring for Climate Ch			5,000,
4.2: Piepa			en en tradición de la Martínia. Con anno está en la del trada en el Martínia de la destruction	
	4.2.1: Facilitate a r		smart planning initiative for promoting habitat resilience and adaptation.	5,000,
		MA-CZM	Coastal Development and Re-development:mapping, training, and	2,500,
		MA-CZM	Landscaping and Rolling Easement Initiatives, and planning guidance	2,000,
		ME DOC	Regional planning efforts with focus on RPCs and local communities	500,
4.3: Mitia	ate Erosion of Shor	eline Habitats		7,800,
- Hor Phage	4.3.1: Mitigate eros		dune habitats	7,800,
		ME DOC	Erosion mitigation & dune restoration	2,500,
		ME DOC	Continued beach/dune monitioring with MBMAP	300
		NH DRED	Erosion mitigation & dune restoration to protect coastal habitat &	2,000
		MA CZM	Erosion mitigation & dune restoration to protect coastal habitat &	3,000,
				-,,
4.4: Asses	s and Mitigate Imp	act of Sea Lev	el Rise on Salt Marshes	12,500,
			le areas of adjacent uplands as buffers for marsh migration; acquire and/or	, ,
	protect priority site	•		12,500
	proceed priority site	MA multiple	Tidal wetland adaptation & migration buffer	10,000
		ME IFW	Identification and Prioritization of undeveloped uplands for Tidal Significant	500,
		ME DOC	Marsh elevation monitoring to determine resiliency to SLR	500,
		NHCP	Tidal wetland adaptation & migration buffer	1,500
			ND RESTORE AFFECTED HABITATS	8,870,
	Detection of Invas		AND RESTORE AFFECTED HADITATS	4,960
J.I. Larry	5 1 1' Establish a c	omprehensive m	nonitoring program in the Gulf of Maine and its watershed with the capacity to	<del>т</del> ,900
			heir arrival and to disseminate the information to rapid-response teams.	4,960
		ME DEP	Maine Marine Invasives Efforts coordination & development	1,375
		ME IFW	Track non-native invertebrates per findings of Climate Change Vulnerability	910
		MA CZM	Marine Monitoring and Early Detection	2,500,
		NHCP	CWIPP Support	75
			Coastal NH assessment of plant and marine animal invasives affecting	
		NH F&G/DES	natural communities and habitat	100
		,		
5.2: Remo	val and Prevention			2,510
			of rapid-response teams that control populations of invasive species	
	immediately after d	letection.		2,510
		MA CZM	Implement Priority Aquatic Invasive Species Management Plan Tasks	500
		ME DEP	Inland waters Courtesy Boat Inspection Program for invasive aquatic	400
		ME DEP	Invasive Aquatic Plant Control Program:	400
		ME IFW	Efforts to prevent further spread of non-native FW fish spp.	910
		NHDES	Agautic Control	300
		NIIDES		500
5.3: Resto	ration of Habitats	Degraded by Tu	nvasive Species	1,400
5.51 10510			re habitats adversely affected by invasive species.	1,400
			Wetland invasive species control/management: phramites, pepperweed,	1,100
		MA DER	purple loosestrife, etc	1,000
		NHCP	Wetland invasive species control/management: phragmites, pepperweed,	100
		NHCP	Identify & restore adversely impacted habitat	300
		ME	(numbers included under item 1.2.1 above)	500
		Inc		
			OVERALL TOTAL (GOALS 1-5):	3,029,509,0