

Mobile Bay National Estuary Program
Management Conference CCMP Priorities

CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
WQ-A1		Assess Data to Identify WaterQuality Problems					
WQ- A1	2	ADEM and EPA with support from MBNEP will compile additional new data, including ADPH and other area water quality data sets, as needed, to expand upon the Tetra Tech loadings; will examine cumulative or synergistic effects of loadings from various point and non-point sources, including air emissions and will coordinate appropriate new actions where possible. NOTE: Real time monitoring and sub-estuary monitoring are supported by MBNEP.	ADEM	*Atmospheric Mercury *NPDES Loadings *Sediment Chemistry *Tissue Chemistry *Enterococcus Monitoring *Harmful Algal Blooms	* Increase in understanding of Water Quality Issues *Improved identification of, response to point and non-point sources of pollution that negatively impact water quality	2002	ongoing
WQ- A1	3	ADEM, USACE and EPA will develop comprehensive, water quality predictive models to allow a more complete understanding of loadings processes	ADEM	*Fecal Coliform *Chlorophyll a *Secchi Depth *Dissolved Oxygen *Light Attenuation	*Decrease concentrations of toxic substances	2003	ongoing
WQ- A1	4	EPA and ADEM will support development of simple management tools based on the predictive models for planners, managers, local governments and universities, in order to reduce future point and NPS loadings.	EPA				sporadic
WQ-A2		Incorporate Loadings Information into Non Pollutant Discharge Elimination System					
WQ-A2	1	ADEM will develop and issue NPDES permits based TMDLs and other watershed plans.	ADEM	NPDES Loadings	*Improved NPDES *Decrease concentrations of toxic substances	2001	ongoing
WQ-A2	2	ADEM, in conjunction with EPA and NRCS, will develop and implement watershed based NPS control plans based on TMDLs.	ADEM			2001	ongoing

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WQ-A3		Maintain Groundwater Quality					
WQ-A3	1	AUMERC will promote the Groundwater Guardian Program to encourage communities within Mobile and Baldwin Counties to advocate groundwater protection practices and procedures. MBNEP will encourage communities within the NEP area to develop and implement wellhead protection programs.	AUMERC	*NPDES Loadings *Sediment Chemistry *Fecal Coliform	*Improved groundwater quality *Decrease concentrations of toxic substances *Increase safety of water for body contact		ongoing
WQ-A3	2	ADEM, GSA, ADECA/OWR and USGS will better define groundwater resources and properly plan for expanded groundwater withdrawals in order to abate well field development practices that lead to saltwater intrusion. MBNEP will report on these activities.	ADECA/OWR			2002	ongoing
WQ-A3	4	ADEM-Land Division will implement: the AL Hazardous wastes Management and Minimization Act, The AL Hazardous Substances Cleanup Fund Act, the Alabama Land Recycling and Economic Redevelopment Act, the AL Solid Waste Disposal Act, the Drycleaner Environmental Response Trust Fund Act, a federal facility cleanup program, and the federal Comprehensive Environmental Response, Compensation, and Liability Act, and will support household hazardous waste programs.	ADEM Land Division			2002	ongoing
WQ-A3	3	ADEM-Water Division will implement: The Underground Injection Control Program, the Underground Storage Tank Program, an investigation and clean up of groundwater at contaminated sites, and the Wellhead Protection Program.	ADEM Water Division			2002	ongoing
WQ-A4		Ensure Protection and Maintenance of High Quality Waters					
WQ-A4	2	MBNEP, ADEM, ADCNR and USFWS will identify other stream segments of exceptional recreational, historical, and ecological significance, which merit consideration for classification to Outstanding Alabama Water, Outstanding National Resource Water (ONRW), or other high recognition classification. MBNEP will facilitate citizen participation to educate and gather input on levels of support for reclassification efforts and will work with appropriate agency to prepare requests for reclassification.	MBNEP	*Enterococcus Monitoring *Harmful Algal Blooms *Fecal Coliform *Chlorophyll a *Secchi Depth *Dissolved Oxygen *Light Attenuation	*Increase in # of classified Outstanding Alabama streams and waterways		

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WQ-B1		Reduce Excessive Nutrient Loading Within the MBNEP area					
WQ-B1	1	MBNEP will support Local government efforts to develop and implement ordinances within their legislative authority to encourage additional means for stormwater detention and retention, including BMPs, alternative landscaping, in order to reduce nutrient and/or organic loadings. MBNEP will support the development of NPS control programs. MBNEP will facilitate community fora to investigate legislative changes that would provide the additional authority necessary for establishing such ordinances (Home Rule).	MBNEP	*Dissolved Oxygen *Chlorophyll a *Turbidity	*Improved water quality to sustain aquatic life *Improved management of stormwater	2004	Initiated
WQ-B2		Address Upstream Nutrient & Sediment Inputs					
WQ-B2	1	MBNEP will support ADEM's NPS programs statewide (e.g., 319 programs, etc.) by providing support for watershed basin assessments and public outreach through the Coastal Alabama Clean Water Partnership, NEMO, coordination of on-site sewage workshops, and public presentations on the results of the USGS's Mobile River Basin NAWQA study. MBNEP will coordinate efforts with statewide watershed groups such as Alabama Rivers Alliance where possible.	MBNEP/ CACWP	*Sediment Chemistry/loadings *Harmful Algal Blooms *Chlorophyll a *Secchi depth *Dissolved Oxygen *Light Attenuation	*Improve safety of water for body contact *Improve water quality to sustain aquatic life	2001	ongoing

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WQ-C1		Reduce Opportunities for Pathogen Introduction					
WQ-C1	1	GOMP will coordinate efforts with MBNEP to aid development of an effective Gulf-wide solution for pathogen introduction to area waters. MBNEP will support existing and/or develop new incentive programs to reduce or eliminate pathogen introduction due to inadequate or improper disposal methods.	GOMP				initiated
WQ-C1	4	MBNEP will support County Health Departments in reducing or eliminating the introduction of pathogens due to inadequate on-site sewage disposal systems through reviews of on-site sewage disposal systems and related regulations and working with departments to rewrite, where necessary, to accommodate coastal site conditions and locations. MBNEP will work with HBA and County Health Departments to support changes, investigate other efforts, and encourage technology upgrades (GIS).	MBNEP			2004	Initiated
WQ-C1	7	ADEM will administer the Federal Clean Vessel Act: encouraging pump-out stations, placing appropriate facilities (holding tanks, signage, etc) at public launches and dev. Maintenance agreements with owners. ADEM will encourage legislation for illegal discharge of waste from non-commercial vessels into State waters, ADCNR will implement such legislation.	ADEM	*Enterococcus Monitoring *Fecal Coliform	*Improve quality and safety of water for body contact	2001	ongoing
WQ-C1	2	USCG will: check ship's bridge logs for ballast exchange, review logs for location of ballast activity, and share data with the MBNEP	USCG			2001	ongoing
WQ-C1	5	Municipal and County Water and Sewer and Stormwater Drainage Agencies will reduce or eliminate introduction of pathogens from sanitary collection system breaks and hydraulic overloading by: upgrading existing systems where needed, reducing infiltration and inflow into sanitary system to levels that can be contained and treated, reducing peak runoff rates and preventing erosion failures in stormwater drainage systems, coordinating design, location and operation of sanitary sewer and stormwater drainage systems.	Area Wide Water Agencies				ongoing
WQ-C1	3	EPA and MBNEP will work with ADEM to reduce opportunities for potential introduction of pathogens from point source discharges by evaluating the extent of the problem by tracking and identifying sources and encouraging compliance where needed.	EPA			2002	ongoing
WQ-C1	6	NRCS will reduce introduction of pathogens from domestic pets, wildlife, and farm animals by supporting implementation of AFO/CAFO rules and use of ag. BMPs.	NRCS			2002	ongoing

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WQ-D1		Assess Problems Related to Sediment Quality					
WQ-D1	2	MBNEP will coordinate the acquisition of additional data, as identified in the characterization report; the development of risk assessments, if necessary (to address contaminants of concern and levels of concern); and support efforts to better understand sediment toxic processes.	MBNEP	*Atmospheric Mercury *Sediment Chemistry *Tissue Chemistry *Turbidity *Chlorophyll A	*Decrease in concentrations of toxic substances and pollutants in water		ongoing
WQ-D1	4	MBNEP will encourage the reduction of levels of toxic chemicals in identified problem areas by working with groups such as WRATT to reduce toxic chemical releases at the sources.	MBNEP			2004	initiated
WQ-D1	5	MBNEP will support local government efforts to address storm-water runoff and its impacts to sediment/water quality through storm-water planning that addresses water quality/quantity management (e.g. design changes from detention to retention basins; use of constructed wetlands, etc. ADEM will work with ALDOT to encourage highway and road planning and design to address water quality/quantity management/remediation.	MBNEP/ ADEM			2003	ongoing
WQ-D1	3	ADEM will evaluate the sources and levels of input of identified toxic chemicals in identified problem areas.	ADEM			2002	ongoing
WQ-D2		Provide for Safe Disposal of Hazardous Waste					
WQ-D2	1	MBNEP and ACF will support and promote existing and future state and local efforts to establish permanent household hazardous waste management programs.	MBNEP/ ACF	NPDES Loadings	*Decrease in concentrations of toxic substances and pollutants in water	2001	ongoing
WQ-D2	2	ACF will track dates, amounts collected and parties responsible for organizing and sponsoring Hazardous Waste Days.	ACF			2004	Initiated
WQ-D2	GAP-1	MBNEP will facilitate the creation of a bi-county team for home rule related to sustainability.	MBNEP				Initiated
WQ-D2	GAP-2	Ensure funding by consistently enforcing regulations.	MBNEP				
WQ-D2	GAP-3	MBNEP will support new technology to reduce impact of storm- and wastewater.	MBNEP				
WQ-D2	GAP-4	MBNEP will support the development/promotion of more sustainable transportation alternatives.	MBNEP				Initiated

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LR-A1		Improving Monitoring of Key Living Resources					
LR-A1	1	MBNEP coordinate studies to identify status and trends of living resources in the estuary that 1) are gaps in existing studies; and b) recommend key species that are not currently being evaluated in existing monitoring programs which offer insight into ecosystem health (especially in areas above the Causeway).	MBNEP			2003	initiated
LR-A1	2	MBNEP will encourage the maintenance of biodiversity by supporting the development of city, county and state programs to protect threatened and endangered species on private and public lands; including expansion of eagle hacking activities to ADCNR-WFFD managed Mobile Delta TTW mitigation land. MBNEP enhance and expand county, municipal and state governance of all species at risk and request that such species be monitored during field activities.	MBNEP				ongoing
LR-A1	4a	ADCNR, MBNEP and others will encourage the development of monitoring programs of known potential vectors of nuisance species introduction, based on examinations of other effective programs and agency and scientist input. (See LR.B1)	ADCNR	*Birds- pelicans, waterfowl, neotropical migrants; *Bottom Dwelling-blue crabs, oysters, flounder; * Mid-Water- largemouth bass, red drum, mullet	*Improve the stability of fish and wildlife populations *Improve the populations of threatened and endangered species *Increased Citizen awareness, accessibility to data, and improved management and coordination of local activities	2001	ongoing
LR-A1	4b	ADPH will develop a water quality protection and monitoring plan specifically dealing with nuisance HABs by: a) examining Alabama's current water quality protection and monitoring plans specifically dealing with HABs; b) examining other states' initiatives (e.g., Virginia, North Carolina, etc.); and developing recommendations to enhance or improve current plans. ADPH will participate in Gulf Alliance workshops on HABs and take advantage of the Gulf Alliance structure in investigating new technologies, educational opportunities, etc.	ADPH	*Number of osprey, eagles; *Number of species listed on special concern list; *Number of species listed on threatened/endangered list; *Acreage of land converted to alternate use * HABs *Chlorophyll A		2001	ongoing
LR-A1	5	MBNEP will develop a Data Information Management System that provides a clearing house for data related to the water quality, living resources, habitat management, and human use activities throughout the region by: a) continuing efforts to coordinate monitoring between appropriate agencies, organizations, and groups; b) incorporating recommendations from Steps 1-3 into the Mobile Bay NEP monitoring plan; c) requiring contractors to provide data in formats compatible with DIMS; and d) delivering monitoring results to the public and agencies.	MBNEP			2003	ongoing
LR-A1	6	MBNEP will establish a species advisory subcommittee to serve as a forum for species management issues affecting the Mobile Bay estuary. The Committee will be comprised of individuals, agencies, and organizations with interest and knowledge in the Mobile Bay NEP area.	MBNEP				initiated

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LR-A2		Improve Monitoring of At Risk Species					
LR-A2	2	MBNEP will coordinate with other public agencies to hold workshops periodically that facilitate communication and cooperation between agency representatives, judges, district attorneys, fishers, etc. These workshops will cover existing marine resources regulations and their enforcement and assess the need for any changes regarding current state regulations and enforcement.	MBNEP	*Bottom Dwelling-blue crabs, oysters, flounder * Mid-Water- largemouth bass, red drum, mullet	*Improve the populations of fisheries resources		ongoing
LR-B1		Develop Management Plan for Nuisance Species					
LR-B1	1	ADCNR WFF, GMP with the assistance of MBNEP, will coordinate a workshop to 1) gather existing/incoming data that have already identified nuisance species (see LR-A1, Step 4), 2) research exotic species regulatory and enforcement programs in other states; and 3) examine the extent of existing Alabama legal authority to control the sale and distribution of nuisance exotic species, 4) Identify options for changes regarding current regs. and enforcement. Participants will draft legislation for AL based on the 1995 Non-indigenous Aquatic Plant Control Act. MBNEP will define its role with ADCNR in implementing the State Aquatic Nuisance Species Plan as part of the final implementation assistance plan.	ADCNR-WFF	*Frequency of occurrence of non-native species e.g. crabs, non-native submacrophytes, others	*Improve understanding of the impact of non-native species on the environment *Reduce the populations of non-native species	2003	Initiated
LR-B1	2	GMP and MBNEP encourage the development and promote model programs to control or prevent introduction of nuisance species.	GMP				Initiated
LR-C2		Increase Fisheries Resources					
LR-C2	1	ADCNR will continue to develop and monitor artificial reef habitat in appropriate areas of the Mobile Bay estuary through programs such as the "Roads to Reefs" effort. ADCNR will assess effectiveness of program periodically in effort to determine possibilities for its expansion.	ADCNR-MRD	*Bottom Dwelling-blue crabs, oysters, flounder * Mid-Water- largemouth bass, red drum, mullet	*Improved fisheries resources	2000	ongoing
LR-C2	2	ADCNR will conduct shell planting, as funds become available, to replenish and expand shell areas in Mobile Bay to increase oyster habitat.	ADCNR-MRD			2000	ongoing
LR-C2	3	MBNEP will support ADCNR MRD efforts to continuously examine existing data to determine whether additional limited take and/or no take zones are warranted. MBNEP support will be periodically assessed to determine the effectiveness of its supporting activities.	ADCNR-MRD MBNEP			2000	ongoing
LR-C3		Manage Recreational and Commercial Fishing Effort					
LR-C3	1	ADCNR MRD and ADCNR WFFD will examine other state plans/programs to manage fishing effort and develop a plan for Alabama based on this examination. Such a plan should also contain a monitoring component to determine effectiveness and an outreach and education component to raise the public awareness of the issues.	ADCNR-MRD, WFFD	*Bottom Dwelling-blue crabs, oysters, flounder * Mid-Water- largemouth bass, red drum, mullet	*Improved management of fisheries to decrease stresses on recreational and commercial species	2000	ongoing

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HM-A1		Develop a Coastal Habitats Coordinating Team					
HM-A1	2	ADCNR will work with MBNEP to develop an inventory of available methods for habitat conservation by 1) researching existing habitat conservation programs and developing a matrix of capabilities, limitations, and requirements; 2) determining the legislative or other infra-structural requirements necessary to implement these programs 3) developing and facilitating the adoption of local ordinances, regulations, and other legal instruments to implement these programs; 4) providing technical assistance report on to the CHCT and public.	ADCNR			2004	Initiated
HM-A1	2a	MBNEP will work with the GMP and the CHCT to develop an Atlas of priority areas/habitats for conservation utilizing a multi-species approach and 1) incorporate these priorities into mitigation planning strategies as an alternative; and 2) give preference to coastal habitat conservation priorities when developing grants for NOAA and other incentive-based programs such as Forever Wild ; 3) work with other agencies to adopt conservation priorities as a basis for project selection.	MBNEP				
HM-A1	2b	ADCNR State Lands will work with the CHCT to develop long term site management/protection guidance; encourage maintenance of natural functions on priority sites; prepare funding strategy for acquisition/restoration	MASGC	*Acres of Habitat Protected or Restored *Acres of Habitat by Quantity or Type *Land Use/Land Cover Changes	Increase in the number of acres of unfragmented habitat that serves multiple species of wildlife		
HM-A1	2c	MBNEP will support LOCAL GOVERNMENTS in developing shoreline, corridor and greenway plans to decrease and/or halt habitat fragmentation. The plans will examine existing plans and formulate consistent, countywide land use management plans for the Mobile Bay NEP area (to include the Bay, rivers, Delta, creeks and beaches); b) investigate funding programs to fund shoreline, corridor, and greenway conservation projects such as ADCNR 306 grants, Federal Hazard Mitigation grants, Flood Mitigation Assistance, etc. d) coordinate with existing programs like the Crepe Myrtle Trail, Greenways Program, CRP, and Partners for Wildlife to protect and restore these habitats; e) set limits on the amount of impervious surface allowed within these habitats; and f) monitor amount of impervious surface and riparian habitat, as well as the physical and biological parameters of these habitats.	Local Governments			2001	ongoing
HM-A1	2d	ADCNR will develop incentive-based programs to encourage preservation of green belts, riparian corridors, stream fisheries habitat, and non-fragmented habitats by sub-watershed	ADCNR				

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HM-B1		Protect or Restore SAV Habitat					
HM-B1	1a	MBNEP will coordinate the production of maps of major SAV concentrations throughout the NEP area for public distribution on a periodic basis to evaluate status and trends.	MBNEP	*Light Attenuation *Acres of habitat protected or restored *Shoreline/Riparian changes	Increase acreage of SAV habitat	2001	
HM-B1	1b	MBNEP will coordinate with the CHCT to analyze maps for cause /effect relationships	MBNEP/ CHCT				
HM-B1	1c	MBNEP will coordinate with CHCT and DISL to identify high priority sites for SAV restoration from those areas with healthy or recovering SAV and will implement a coordinated strategy for restoration that takes advantage of volunteer planting efforts. MBNEP/DISL will investigate non-destructive (other than transplanting) methods for growing plants for use in SAV restoration and will monitor and evaluate restoration efforts for success, necessary corrections, and improved techniques and will identify funding alternatives (e.g. marina tax)	MBNEP/ CHCT				
HM-B1	1d	ADEM, USACE, AL Port Mitigation Bank, and others will examine the possibility of incorporating priority SAV restoration sites into area mitigation planning strategies					ongoing
HM-B1	2	ADCNR will attempt to expand enforceable "no wake" zones using a targeted approach for critical areas to include areas adjacent to SAV beds and post with signs. In addition, ADCNR will consider developing regulations for "no motor" zones in sensitive SAV areas.	ADCNR				2005

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HM-C1		Maintain and/or Improve Beneficial Wetland Function					
HM-C1	1a	MBNEP will coordinate the determination and quantification of the current extent of wetlands and the extent of wetlands loss or conversion within the Mobile Bay NEP study area by habitat type, watershed, and cause of loss. All land area will be mapped with their values.	MBNEP			2004	initiated
HM-C1	1b	MBNEP will work with the CHCT to produce a GIS map of the wetlands that ensures compatibility of the information gathered for education and conservation management purposes and develop and implement specific recommendations to alleviate the loss of non-regulated wetland habitats within the confines of the Mobile Bay NEP.	MBNEP				
HM-C1	2	MBNEP, in coordination with CHCT, Counties, and ADCNR Coastal Section will: a) develop baseline information on the level of wetland functions within individual watersheds; b) determine the extent and cause of beneficial wetland functions loss; c) establish the threshold acreage needed to sustain baseline wetland functions; d) examine the effectiveness of existing wetland regulations; and e) develop and implement specific watershed management recommendations to alleviate the loss of wetland functions. Cooperate with the USACE and other applicable federal agencies.	MBNEP	*Acres of habitat protected or restored *Acres of habitat quantity by type *Land Use/Cover Changes *Hydrologic/bathymetric change	Improved wetland functions Increase in habitat for living resources	2004	ongoing
HM-C1	3	USACE will work with ADCNR, MBNEP, and USFWS to a) identify wetlands' types receiving the greatest permit pressure and development impact; b) identify priority sites for mitigation, preferably by watershed; c) designate appropriate success criteria that are consistent with replacement of lost wetland functions; d) implement a program of regular mitigation site inspections to assure mitigation compliance; e) identify needed design corrections, and provide input to better mitigation design; f) incorporate the above into a strategic mitigation plan for coastal Alabama; and g) Implement a coordinated restoration effort with a local non-Federal partner to expand marsh acreage using the USACE 206 program to restore marsh.	USACE				Initiated
HM-C1	4	MBNEP will work with USFWS to: a) identify high priority sites for marsh restoration within the Mobile Bay NEP area by watershed; b) make arrangements with local nurseries to grow marsh plants adapted to Mobile Bay, as opposed to transplanting from donor marshes or purchasing plants from distant sources; and c) sponsor and coordinate volunteer marsh-planting efforts and monitor and evaluate restoration efforts for success, necessary corrections, and improved techniques.	MBNEP			2001	ongoing

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HM-D1		Assess Beach and Dune Habitat Loss					
HM-D1	1	MBNEP will conduct coordinated outreach to stress importance of beach and dune systems. LOCAL GOVERNMENTS will be encouraged to reduce habitat fragmentation of beach and dunes to protect critical habitats, particularly those under land development pressure through the development and enforcement of zoning ordinances and regulations that limit habitat fragmentation. These areas should be included in FEMA mitigation efforts as a mechanism for reducing future hurricane damages.	MBNEP	*Acres of habitat protected or restored *Shoreline/Riparian change trends	Increase in nonfragmented habitats	2002	ongoing
HM-D2		Regional Sediment Management (previously Determine Impacts of Dredging on Coastal Habitats)					
HM-D2	1	USACE will coordinate with MBNEP to develop a Task Force focusing on regional sediment management and beneficial uses and coordinate with the Gulf States Alliance Action Plan.	USACE				initiated
HM-D2	2	USACE coordinate with the Task Force to develop a Regional Sediment Management Plan, based on the Upper Mobile Harbor Dredge Management Plan that includes sedimentary dynamics of Mobile Bay and the Tensaw Delta. This plan will include a sediment budget for the Bay and Delta to establish baseline sediment conditions and determine the relationship between fringe wetlands and sediment dynamics. The resulting management plan will determine positive and/or negative impacts, if any, associated with dredged material management practices, including, but not limited to: circulation impacts due to dredged material mounding; beneficial uses of dredged material; and "within-bay" disposal for erosion reduction.	USACE	*Acres of Habitat protected or restored	Improved sediment		

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HM-D3		Address Shoreline Erosion					
HM-D3	2	MBNEP will coordinate with a local contractor to: a) research how other states have addressed boat wakes and erosion of natural shorelines; b) quantify baseline erosion rates along coastline within the MBNEP area for use in evaluating future erosion rates; c) monitor rates of erosion in heavy boating areas more intensely; and d) propose "limited wake" or "no wake" zones in identified areas of high erosion.	MBNEP	*Acres of habitat protected or restored *Shoreline/Riparian Changes	Reduction of shoreline lost		ongoing
HM-D3	3	ADCNR MRD will adapt additional no wake zones, as recommended in study from step 2 and increase enforcement of "no wake" or "limited wake" zones.	ADCNR-MRD				
HM-D3	4	ADCNR COASTAL PROGRAMS will develop strategies aimed at reducing shoreline loss, particularly from bulkheads, in the MBNEP area. The strategies shall be incentive-based, where possible, and may include: conservation easements; tax incentives; riparian buffers; and increase development setbacks.	ADCNR				ongoing
HM-D3	5	MBNEP will work with USA COASTAL ENGINEERING and others to develop engineered alternatives to bulkheading and pilot restoration projects to address the following: beneficial uses of dredged material for shoreline sustainability; offshore breakwaters with wetlands; constructed wetlands; and low-level riprap/bulkheads.	MBNEP				2002

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HM-E1		Prevent Nesting Habitat Decline					
HM-E1	1	MBNEP will coordinate with existing agencies, groups, and individuals (eg. Ducks Unlimited, Audubon Society) to determine factors that are adversely affecting bird nesting habitats .	MBNEP	*Acres of habitat protected or restored *Shoreline/riparian changes	Increase acreage of nesting habitat for colonial and migratory birds		
HM-E1	2	ADCNR SLD will develop a GIS-based annual monitoring effort for colonial sea bird and shorebird nesting sites with exact coordinates of the nesting sites to determine status and trends for management decisions and public information.	ADCNR			2004	Initiated
HM-E1	3	MBNEP will encourage and support improved enforcement of existing state and federal regulations pertaining to colonial and migratory bird nesting habitat. Strategies may include: a) increasing ADCNR, Non-Game Division enforcement personnel; b) making enforcement a priority for USFWS; c) encouraging private landowners to allow patrols to routinely monitor private lands; d) exploring alternative enforcement plans and approaches; and e) implementing a citizen watchdog program.	MBNEP				
HM-E1	4	MBNEP will foster cooperative partnerships among agencies and private property owners to identify and prioritize sites for acquisition, better manage existing publicly owned sites, and restore former colonial and migratory bird nesting sites. Efforts should include, but are not limited to, the following: a) coordinating with local agencies to develop an agreement for funding placement of shell in appropriate nesting areas; b) coordinating with GSA and other groups to determine placement of nesting materials; c) coordinating with BSA and other volunteers to place shell, cavity nesting boxes, nesting platforms, and nesting site signs;d) utilizing the Coastal Habitats Coordinating Team to: examine the acquisition of Cat Island; establish an adopt-a-colony effort; and implement recommended preservation and/or exchange programs for acquisition and/or preservation of maritime forests and scrub/shrub dune habitat.	MBNEP			2004	initiated

HM-E1.1,2, 3 and 4 need to be revisited to verify priorities since development of the CCMP.

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HU-A1		Develop and Implement Comprehensive Land Use Planning					
HU-A1	1	SARPC will work with LOCAL GOVERNMENTS to develop a long-range management plan for consistent/enforceable regional land and water use that incorporates: a) cost vs. benefits of redevelopment vs. new development; b) incentives to encourage redevelopment and preservation of existing environments; c) government efforts to encourage reinvestment such as brownfields; d) landscaping and tree ordinances ; e) parking garages as alternatives to conventional parking; f) use of alternative paving methods, including use of semi-pervious materials; g) compact development that reduces sprawl/related impacts; h) engineering and BMPs to maintain pre-development hydrology, minimize stream warming, and reduce sediment loading, and i)increased development of Environmental Courts; and j)communicate plan with elected officials.	SARPC	*Acreage of land converted to alternate use *Acreage of Impervious surface * New road construction *Shoreline modifications/hardening *# of types of development permits	Improved management of human use activities related to land use	2002	ongoing
HU-A1	3	ADCNR Coastal Programs will work with the ALABAMA GULF COAST CONVENTION AND VISITORS BUREAU and ALABAMA GULF COAST CHAMBER OF COMMERCE to ensure that ADCNR coastal section balances tourism impacts and the preservation/restoration/reforestation of beaches/dunes in its programs, including re-establishment of the Construction Control Line that addressees population impacts per foot of beach frontage and an updated floodmap re-drawn and adopted by FEMA post 2004-2005 hurricane season.	ADCNR			2001	ongoing
HU-A1	GAP	MOBILE BAYWATCH/BAYKEEPER, Smart Coast and others will form a coalition of community leaders to guide and encourage local governments, SARPC, ADCNR to 1)implement sustainable land use planning 2) establish Home Rule for smart growth needs 3)reduce sediment due to increase development.	MBBK				
HU-A1	2	MBNEP will: a) support efforts of Mobile/Baldwin United and Envision Mobile Baldwin to develop sustainable development indicators; b) implement a recognition program that encourages environmentally sound development practices; and c) provide incentives and education promoting environmentally sound business and/or industrial activities.	MBNEP			2003	ongoing

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HU-B1		Assess Hydrologic Effects of Development Practices					
HU-B1	2	MBNEP will encourage LOCAL GOVERNMENTS and STATE AGENCIES to assess and remediate hydrological impacts of past land management practices through the: a) study of impacts of such practices on living resources and water quality of the area; b) evaluation of and improvement to existing engineering design criteria; c) preparation of land use ordinances modeled after programs in similar areas; d) developing an incentive-based program emphasizing urban stream retrofitting (returning a stream to a more natural state);e) acquisition and/or preservation of municipal riparian corridors; f) development of alternatives to loss of pervious surface, which contributes to localized flooding and infiltration of municipal and/or private sewage systems; g) promotion of technology transfer to smaller communities and unincorporated areas; i) establishment of water quality and quantity requirements for the MBNEP area; j) creation of incentives for reducing storm-water runoff and increasing filtration on development sites; and h) creation of non-traditional means for enhanced water quality and quantity provisions.	MBNEP	*New road construction * #/types of development permits *303 (D) Listed Streams *# waste water permit violations	Mitigation of impacts related to hydrologic changes due to development		

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
HU-B2		Restore Natural Hydrologic Conditions					
HU-B2	3	ADECA OWR will work with MBNEP, ADEM and LOCAL GOVERNMENTS to assess the hydrologic impacts to D'Olive Bay as follows; a) conduct a comprehensive biological, hydrologic, and engineering study of D'Olive Bay to determine existing conditions and make recommendations for improvements. This will include finding determinations of pre-modification water quantity and quality conditions and development of a stepwise strategy to return the area to a more natural hydrologic condition, to the extent possible; and b) ADEM will complete watershed assessment.	ADCNR, ADEM			2004	Initiated
HU-B2	1	MBNEP, TNC, USACE and others will address hydrologic impacts of the 6-mile stretch of Highway 90 a.k.a. "the Causeway" through activities included but not limited to: a) the development of a preliminary restoration plan by the USACE based on a feasibility study to determine impacts on hydrologic flow regimes, water quality, and living resources; b) MBNEP will work with area scientists to conduct further assessments of the Causeway's effect on health and abundance of aquatic species due to altered water flow patterns and /or salinity gradients; c) Mobile Bay Keeper and TNC will: i) develop a Corridor Management Plan (CMP) the Causeway and its adjoining roads and will submit proposals to designate the Causeway as a State Scenic Highway and/or as a National Scenic Byway; and d) ADCNR and ALDOT will develop a funding strategy and implement proposed restoration activities along the Causeway.	MBNEP	*Acreage of land converted to alternate use *Acreage of Impervious surface *new road construction *shoreline modifications/hardening *Acreage of functional wetland restored, enhanced, created	Reduction of hydrologic impacts of natural habitats Reduced sediment loadings into Mobile Bay Increased SAV Restoration of function of lake as detention basin	2000	ongoing
HU-B2	2	USACE will address and remediate hydrographic impacts associated with navigation channel operations and maintenance by: a) determining the level of significance and real extent of possible impacts associated with existing navigation channels utilizing the water quality modeling effort; b) developing management options to minimize navigation channel impacts, if necessary; c) determining the changes/impacts due to modification of salt wedge intrusion as a result of construction and/or operation and maintenance of channels; d) developing of management options to repair/minimize salt wedge intrusion problems, if necessary. Incorporate into the dredge material management plan being developed by the USACE and ASPA.	USACE			2002	ongoing

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
HU-B3		Improved Control of Erosion and Sedimentation					
HU-B3	2	MBNEP will work with LOCAL GOVERNMENTS and OTHERS to a) promote the development and implementation of local legislation (HOME RULE) to give counties the authority to develop and enforce ordinances to manage and/or reduce the impacts of land disturbing activities that: a) restrict development of new subdivisions consisting of more than four dwelling units that use dirt roads (Note: currently exist in Baldwin County.) b) support development of BMPs designed for rainfall and soil conditions and incorporate locally-based BMPs into Supplemental Building Code; c) support the development of a BMP guidebook and enforce its use; and d) develop incentives to reduce sediment and turbidity impacts from waterfront property development and related runoff.	MBNEP				ongoing
HU-B3	4	MBNEP will work with LOCAL GOVERNMENTS to improve road surfacing prioritization and planning such that consideration is given to: a) potential impacts to surface waters and b) use of alternative road surfacing material.	MBNEP	*New road construction *Shoreline modification/ hardening *turbidity *light attenuation *Sediment loads	Reduction of non-point source pollution	2002	ongoing
HU-B3	1	LOCAL GOVERNMENTS will coordinate with NRCS, ADEM and additional partners to: a) establish criteria for a water body buffer zone on both sides of stream banks; b) develop and implement a water body bank conservation easement and/or buyout program; c) establish and encourage the use of development setbacks from water bodies; d) assess the possibility of requiring drainage plans based on 15-to-25 year or greater storm events; e) establish side slope requirements not to exceed 1:4; f) establish slope stabilization requirements, such as erosion control netting or extending concrete beyond crest of slope or bank; and g) establish erosion control requirements (in stages) within buffer zones and beyond.	ADEM				
HU-B3	5	ADCNR and ADEM Coastal Programs will: a) support the NRCS, Soil and Water Conservation Districts, and the ACES in continued development and implementation of agricultural education and BMP standards (e.g., establish and encourage buffer zones with perennial vegetation; encourage the use of conservation tillage practices; develop education materials pertaining to conservation practices; etc.); and b) support the NRCS development and implementation of grazing plans for livestock operations to protect sensitive areas, such as stream banks, wetlands, ponds, and riparian zones.	ADEM			2002	ongoing

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
HU-C1		Increase Public Access and Eco-Tourism Opportunities					
HU-C1	1	MBNEP, MASGC, and ADCNR COASTAL PROGRAMS will support the expansion of eco-tourism activities and apportion ecotourism income for protection efforts.	ADCNR	*Number of types of development permits *Population Growth/Changes *Functional wetland protected, restored or created ****(#'s of people using access points-not identified in workshop)	Increase in the importance of protecting the Estuary and its environment	2003	ongoing
HU-C1	C1	MBNEP and ADCNR COASTAL PROGRAMS and COUNTY GOVERNMENTS will support and promote the development and maintenance of new and expanded public access to waterways, including boardwalks to beaches or waterfront and public boat launching facilities.	MBNEP			2000	ongoing
HU-C1	GAP	MASGC, MBNEP, ADCNR will support the creation of a marketing package for eco-tourism opportunities, partnering with MCVB and the AGCCVB.	MASGC				
HU-C1	GAP	MBNEP will strive to become a voting member of committees in both counties that make decisions on transportation, housing, economic growth, planning and zoning in order to add environmental and natural resource protection aspect to decision making of these issues.	MBNEP				

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
EPI-A1		Enhance Public Education and Outreach					
EPI-A1	3	MBNEP will work with local institutions and agencies of the management conference in developing and promoting a Coastal Environmental Education program that addresses priority environmental issues of the Mobile Bay Estuary. The program will identify activities for different target audiences and will focus on users of the estuary. Media messages will focus on a) value b) sound science and c) new technologies.	MBNEP	*# of k-12 teachers who have implemented curriculum units based on completed environmental training *# of adults volunteering for environmental activities/monitoring *# of professionals who have implemented concepts based on environmental training *# of k-12 students who have participated in long term environmental projects at school that pursue advanced environmental education or jobs *# of Environmental Organizations *# of Environmental Activities	Increase knowledge and importance of estuary		
EPI-A1	1	MBNEP will lead the update, implementation, assessment and refining of a public outreach campaign that outlines materials/activities relative to creating community awareness of issues related to 1) water quality, 2) habitat management, 3) living resources, and 4) human uses.	MBNEP			2000	ongoing
EPI-A1	2a	MBNEP will support the Gulf Alliance in the development of a clearinghouse for educational materials and programs that address priority issue areas of the CCMP to provide information about 1) what is going on locally and 2) what would be useful to adapt to local conditions and issues. MBNEP will analyze the information gathered to identify gaps.	Gulf Alliance				
EPI-A1	2b	MBNEP will work with other coastal agencies and educational programs to provide enhanced materials related to the four issue areas and opportunities for materials delivery.	MBNEP				
EPI-A1	2c	MBNEP will coordinate outreach efforts with citizen organizations to assure continued citizen input and support.	MBNEP				
EPI-A1	2d	ADCNR will work with other coastal agencies to organize and implement citizen based activities related to Coast Weeks, Earth Day, and May as "National Wetlands Month."	ADCNR				
EPI-B1		Develop Comprehensive Citizen Monitoring and Reporting Programs					
EPI-B1	1	ACF will assess citizen based monitoring efforts and identify enhancement opportunities based on identified indicators; MBNEP will work with monitoring agencies to develop new monitoring programs where necessary.	ACF	*# of volunteer monitors # of reports	Increase the # of citizens that are actively engaged in sustaining the estuary	2000	ongoing
EPI-B1	3	MBNEP and POTF will establish a one-stop, comprehensive citizen reporting system to provide additional information to the public and media.	MBNEP			2003	ongoing

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
WQ- A1	1	TETRA TECH (under contract to MBNEP) will develop a loadings budget analysis using existing data.				2000	complete
WQ- A1	5	MBNEP will continue to assess and incorporate newly identified or potential loadings sources within and outside the MBNEP area and, once identified, will develop appropriate new actions, where possible.				2004	Initiated
WQ- A1	6	MBNEP will support and actively participate in efforts to examine cumulative or synergistic effects of loadings from various point and nonpoint sources, including air emissions.				2002	ongoing
WQ-A4	1	ADEM, at the request of the Baldwin County Commission, will evaluate portions of the Tensaw River for reclassification as an Outstanding Alabama Water (OAW).				2000	complete
WQ-A4	3	MBNEP, through the COMMUNITY ADVISORY COMMITTEE, will develop LOCAL PLANNING TEAMS for stream segments identified in Step 2 in order to determine the level of public support for reclassification efforts.					
WQ-A4	4	LOCAL PLANNING TEAMS will work with appropriate county or municipal governments to prepare requests for water use reclassification of identified, high-quality stream segments.					
WQ-B1	2	MBNEP will provide technical assistance and support efforts for development and implementation of NPS control programs (e.g., 319 program, 6217 program, NPDES, proposed CAFO rules, etc.).				2001	ongoing
WQ-B2	2	MBNEP will coordinate efforts with USGS's Mobile River Basin NAWQA study.					Initiated
WQ-B2	3	MBNEP will support and coordinate efforts, as feasible, with local and statewide watershed groups, such as Clean Water Partnership, Alabama Rivers Alliance and Alabama Environmental Council.				2001	ongoing
WQ-D1							
WQ-D1	1	WOOLPERT ENGINEERING (under contract to MBNEP) will compile and analyze existing data to identify problems and data gaps and, if necessary, develop a framework with screening factors, such as below (could use the EPA screening process):				2000	complete
WQ-D2							
WQ-D2	GAP-0	Create central state agency for Water Resources- ADECA's Office of Water Resources	ADECA				complete
LR-A1	3	Expert Wildlife Solutions will: evaluate the ADCNR-WFFD current monitoring plan for the American Alligator, make recommendations to ADCNR-WFFD for a population characterization study of this species, and implement a pathological study on visual impairment of these animals.	ADCNR-WFFD			2003	ongoing
LR-A2	1	MBNEP COMMUNITY ADVISORY COMMITTEE will review the habitat loss and living resources characterization reports to develop a list of priority species not previously identified that may warrant immediate attention in the Mobile Bay NEP area. MBNEP will develop and maintain a GIS map of federal and state listed species.					ongoing
LR-A2	3	MBNEP will request that agencies routinely:a) require permit applicants to survey for and verify that no species or habitat will be impacted by their projects; b) examine all projects that potentially impact habitat occupied by species at risk; andc) support implementation of recovery plans for all listed species.				2002	ongoing

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
LR-C1	1	AUMERC will examine how commercial and recreational fishing effort is being measured in Alabama and other Gulf States and make recommendations to ADCNR regarding improving data collection and ensuring compatibility with other programs.	AUMERC			2000	complete
LR-C1	2	ADCNR will implement a standardized trip ticket system to collect data on catch per unit effort.	ADCNR-MRD			2000	complete
LR-C1	3	ADCNR will develop a computerized data input system so trip ticket information can be entered online via the Internet.	ADCNR-MRD			2001	complete
LR-C3	2	The MBNEP, ADCNR MRD, and AUMERC will hold a workshop each year, or at an appropriate interval, to facilitate communication and cooperation between agency representatives, judges, fishers, and other interested parties. The workshop will cover existing marine resources regulations and their enforcement.					Initiated
LR-C3	3	MASGC will fund applied research and extension studies to determine the impact of bycatch on fish populations within the Mobile Bay NEP.					re-evaluate and re-write
LR-C3	GAP	Survey, monitor distribution of coarse and soft bottoms					not enough information
LR-C3	GAP	Survey, monitor diversity and comp. of riparian insect assemblages					not enough information
LR-C3	GAP	Compare listed rare species by year and related habitat acreage					not enough information
HM-A1	1	MBNEP will coordinate the development of and facilitate a Coastal Habitats Coordinating Team comprised of entities involved in habitat acquisition, restoration, preservation and management.				2004	complete
HM-D1	2	LOCAL GOVERNMENTS will develop and enforce zoning ordinances and regulations to address habitat fragmentation of critical habitat.				2001	Move to D1-1
HM-D3	1	MBNEP will coordinate with a contractor to increase information concerning sedimentary dynamics of Mobile Bay and the Mobile Tensaw Delta by: developing a sediment budget for the Bay and Delta, establishing baseline sediment conditions, and determining the relationship between fringe wetlands and sediment dynamics. (see WQ A1)				2000	Merge with HM-D2.1,2
HM-D2	(D3-1)	MBNEP will coordinate with a contractor to increase information concerning sedimentary dynamics of Mobile Bay and the Mobile Tensaw Delta by: developing a sediment budget for the Bay and Delta, establishing baseline sediment conditions, and determining the relationship between fringe wetlands and sediment dynamics. (see WQ A1)				2000	Merge with HM-D2.1,2
HM-E1	5	Create development incentives to minimize buffer zone widths					Need to develop concept
HM-E1	GAP	Develop and implement better burn practices					

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
HM-E1	GAP	Map all land area and their values					Move to HM-C1-1
HM-E1	GAP	Create coordinating task force of all agencies with hm jurisdiction					same as CHCT
HM-E1	GAP	Pass legislation to allow authority of task force coord. integration					
HU-A1	4	ADCNR COASTAL PROGRAMS, CPI, MBNEP, LOCAL GOVERNMENTS, and SARPC will develop a shoreline, corridor and greenway plan to decrease and/or halt habitat fragmentation. The plan will create a multiagency task force (possibly in conjunction with CHCT) that will: a) examine existing plans and formulate consistent, countywide land use management plans b) identify and classify streams, greenbelts, and riparian corridors by sub-watershed as either sensitive or degraded based on amount of impervious surface c) investigate funding programs to develop shoreline, corridor, and greenway plans; etc. d) coordinate with existing programs; e) develop incentive-based programs to encourage preservation of green belts, riparian corridors, stream fisheries habitat, and non-fragmented habitats; f) work with city and county governments to implement the shoreline, corridor, and greenway plan ;g) monitor amount of impervious surface and riparian habitat.				2001	Moved to HM-A1-2c
HU-B1	1	MBNEP will assemble a hydrologic review panel of government agencies, county and municipal sewer boards, and private entities to assess cumulative hydrologic impacts of past land management practices and to develop remediation strategies where possible.					ongoing
HU-B2	4	Hydrologic impacts of a man-made dike in Pinto Pass will be addressed as follows:USACE will coordinate with a local non-Federal partner and a local contractor to design and implement a plan to remove the dike in the Pinto Pass area.	USACE			2002	delayed
HU-B3	3	ADEM will support the Alabama Forestry Commission, Alabama Treasure Forest Foundation, and Forever Wild in their education and BMP implementation efforts to reduce sediment and turbidity effects to surface waters from silvicultural runoff.	ADEM			2002	ongoing
HU-B3	6	MBNEP will work with LOCAL GOVERNMENTS to: a) encourage use of alternative and enhanced efforts to control erosion ; b) develop and/or support incentive programs for maintaining ground cover ; c) support legislative action/develop regulations to reduce sediment and turbidity impacts, requiring use of treated sludge or other material to re-establish ground cover in abandoned pits or use of alternative surfacing material to decrease erosion; and d) encourage alternative practices to limit amount of potential runoff; e) work with lending institutions, architects, contractors, and developers to encourage redevelopment practices, establish a recognition program to highlight effective redevelopment efforts; and f) encourage cluster development, engineering, and BMPs that maintain pre-development hydrology, minimize stream warming, and reduce sediment loads				2000	Initiated
HU-C1	1	MBNEP and ADCNR COASTAL PROGRAMS will conduct a cost/benefit analysis of increasing the availability of camping and recreational facilities and investigate camping on ADCNR land in the Mobile-Tensaw River Delta during off-season.				2003	complete
HU-C1	GAP	Diversify economy via regional targeted workforce recruit./dev..					
HU-C1	GAP	Develop Center for Affordable/Workforce Housing					

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CCMP	#	Implementation Activities (revised 2006)	LEAD	INDICATORS	OUTCOMES	Year Initiated	Status
HU-C1	GAP	Develop Center for Maritime Technology					
HU-C1	GAP	Develop Coastal Strategic Plan and Make a State Requirement					
HU-C1	GAP	Develop Bi-County Team for Home Rule Related to Sustainability					
HU-C1	GAP	Model transportation alternatives to examine comparison of impacts					complete
HU-C1	GAP	Support sustainable transp. alts. through federal programs					initiated
HU-C1	GAP	Support sustainable transp. alts. by restructuring ALDOT budget					initiated
HU-C1	GAP	Create regional alternative transportation entity for the coast					Initiated
EPI-A1							
EPI-A1	1	Organize publicize and implement Local Community Initiatives to effectively collect and incorporate public comment into the draft CCMP					
EPI-A1	2e	Coastal Agencies will develop and distribute educational materials, programs, workshops, etc., on priority environmental issues geared for targeted audiences.	Coastal Agencies				
EPI-A1	3	MBNEP and POTF will pool local environmental education and outreach resources and share responsibility for developing and implementing comprehensive Coastal Environmental Education Campaigns ...				2000	ongoing
EPI-A1	4a,b	MBNEP will work with GSA to produce publicly accessible geological maps that provide advance identification of erosion potential for development areas; will work with ADCNR to develop continuing education and instructional training programs on erosion control-encouraging local governments to include them					
EPI-A1		in licensing requirements for contractors, etc.					
EPI-A1	4c	MBNEP will support the preparation of an informational brochure about fragile SAV habitat, including maps of SAV habitat in the area- to be distributed at public boat launches. In addition, signage will be placed around SAV habitat to caution boaters about the consequences of passing too near the beds.					
EPI-A1	4d	MBNEP will work with management conference members to develop a public awareness campaign for at-risk species and coordinate with USFWS, NMFS, and ADCNR to provide publicly available GIS maps and descriptions of the listed species.					
EPI-A1	4e	Coastal Agencies will encourage implementation of a fishing license conservation education component for commercial/recreational apps.					
EPI-B1							
EPI-B1	2	MBNEP will support existing citizen-based environmental monitoring efforts to enhance and support their activities.				2001	ongoing