

2009-2011 CHPP Implementation Plan (2010 update)

Goal.Rec	Action	Lead	Target Year	Status	Details	ActionID
1.1	Coordinate with DENR's SEPA/CSI guidance project and share ACE permit tracking system to address cumulative impacts	DCM, ACE	Ongoing	NA		300
1.1	Evaluate use of forestry BMPs at logging sites.	DFR	Ongoing	PC	As of Spring-Summer 2010, data analysis and report writing is underway for the second round of these periodic BMP surveys. This second round was undertaken between 2006 and 2008, and evaluated more than 2000 logging sites. The DFR expects to complete and produce a final report by Fall 2010 and will post it to the "Water Quality" link on the website: http://dfr.nc.gov/water_quality/water_quality.htm . Additional periodic BMP surveys are being planned for the foreseeable future, with the third round of surveys expected to begin in late 2010; this next generation BMP surveys will be paperless, being completed on tablet PCs in the forest.	347
1.1	Continue meeting with the Shoreline Survey Task Force finalizing proposed inspection program and put the plan in report form for presentation to CHPP Steering Committee	DENR, DEH-SS	2010	C	Proposed inspection program presented report to CSC at spring 2010 meeting (6/23/2010). Another action is needed to implement recommendations of the report.	361
1.1	Cross train Marine Patrol officers to take note of and report violations of EMC rules and permits in Coastal Waters to appropriate agencies.	DMF-Marine Patrol	Plan in FY 2008-09; train in 2009-10; implement following training.	PC	DMF has contract to fly DCM compliance staff – funding to fly ~ every 2 mo. Training in 2008 still effective – find violations. Will retrain as necessary.	363
1.1	Enhance DMF habitat alteration permit review capability.	DMF-Habitat Protection	Establish program and staff in FY 2009-2010	C	Two positions hired for Wilmington and Washington Regional offices (6/23/2010).	364
1.1	The Department will seek funding for additional compliance positions in appropriate programs.	DENR		DK		391
1.1	The Division of Coastal Management will develop a Compliance Education Coordinator position. Compliance promotion by DCM will encourage voluntary compliance with CRC and CAMA/Dredge and Fill rules, laws, and requirements, helping overcome some of the barriers to a successful and effective enforcement program.	DCM	Ongoing	NA	On hold due to budget	299
1.2	The Department, through the APNEP, will develop a	APNEP	2011	PC	Data referenced in the monitoring data inventory for the Virginia portion of the	367

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	comprehensive monitoring plan for the estuarine system.				Pasquotank and Chowan Rivers. Data will include monitoring data on water quality and living resources as well as land use, population trends and other potential ecosystem stressors. Analyses will be conducted for indications of change over the period of record. The goal is to develop a preliminary State of the River Basin report for the Pasquotank and Chowan Rivers. The approach will be holistic in that changes in monitored variables will be tracked throughout river basins and river systems. These stations are monitored by the Virginia Department of Environmental Quality. These data can be further analyzed to look for trends in seasons as well as trends in other monitored parameters. An attempt will be made to trace changes in water quality and living resources back to changes in the basin.	
1.2	Enhance dependable water quality monitoring by investing in Neuse Estuary MODMON and FerryMon.	DENR	Ongoing	PC	FerryMon funding continues.	392
1.2	Work with other DENR agencies to develop data sharing processes. Specifically address data types and standards, data sharing standards, definitions, web services, scaling, integration mechanisms, administration, QA/QC, and other issues.	DMF-Fisheries Management and IT sections	2011	NA		366
1.2	The Department, through the Division of Environmental Health, will develop a data system for monitoring data and mapping of the closure of shellfishing waters to enhance the sharing of information among Departmental Divisions.	DEH-SS	Ongoing	NA	Monitoring data IBEAM development has been at a stand-still. No DENR programmer available to complete IBEAM system for water sampling data and shellfish closure data	362
1.3	Develop and distribute brochures about fish, fish habitat, and fishing to be available for general distribution by DENR staff.	DENR, NERR	2009-11	PC	The NC Coastal Reserve Program has developed an education plan for the Division that includes elements of the CHPP. Budgetary constraints are limiting implementation of the plan.	304
1.3	Conduct outreach to educate citizens about DWQ's Neuse and Tar-Pamlico riparian buffer rules and 401 Water Quality Certification program.	DWQ, APNEP	Ongoing	PC	DWQ developed an educational brochure about riparian buffer rules in the Neuse and Tar-Pamlico River Basins and a factsheet about the 401 Water Quality Certification program. Funds to print documents are provided through APNEP	332
1.3	Provide information to focus students in K-12 understanding the biodiversity of lakes, streams, and estuaries.	DWQ, DPR, APNEP	Ongoing	PC	DPR and DWQ have conducted three workshops for education from NC State Parks, local governments, and non-profits. DWQ also participated in multiple community events with an interactive booth about biodiversity of our lakes, streams, and estuaries	333
1.3	Educate traditional economic interests on the impact of stormwater rules	DWQ	Ongoing	PC	Workshops under development and will be submitted to NC Realtor Board for continuing education credits.	346

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1.3	Incorporate CHPP materials into current DMF outreach activities.	DMF-Habitat and Public Information sections	Ongoing	PC	Habitat bites included in DMF internal weekly newsletter. Habitat bites included in DMF internal weekly newsletter. Potential to do project this yr with federal grant, but need to consult Public Information section to incorporate CHPP recommendations.	368
1.3	Create interactive display(s) showing habitat functions and threats for use at festivals, etc.	DMF-Public Information	2010	NA		370
1.3	The Department, through the Public Information Office will coordinate with the Zoo, Aquariums, Museum of Natural Sciences, State Parks, Educational State Forests and Environmental Education Centers to integrate the relevant components of the CHPP into exhibits and programs.	DENR-Public Information Office	Ongoing	DK		393
1.3	DCM and N.C. Sea Grant will incorporate CHPP into their research and education efforts.	DCM, Sea Grant	Ongoing	NA	Research needs from the 2010 CHPP update have not been delivered to DCM-NERR or NC Sea Grant.	303
1.4	The DFR will revise its Memorandum of Agreement (MOA) documents with the NC Division of Land Resources and the NC Division of Water Quality to ensure compliance monitoring and enforcement policies are consistently practiced in a timely and seamless manner. These MOAs primarily address interdivisional communication on the nine forestry performance standards known as the Forest Practice Guidelines Related to Water Quality (FPGs) and the Riparian Buffer Rules applicable to NC's river basins.	DFR	Early 2011	PC	The MOA revision with NC Division of Land Resources is almost complete. Barring unforeseen complications, DFR is on track to have the revised MOA implemented by September 2010. The revised MOA with DWQ is still in the early stages. Present target is to have this MOA finished by early 2011.	348
1.4	The Department will hold quarterly meetings on proposed projects and enforcement cases that are or may be subject to the permitting or enforcement jurisdiction of the programs of more than one division and invite other state and federal agencies to participate as appropriate.	DENR, DMF	Ongoing	DK		394
1.4	Continue to review "Inner banks" development issues and address environmental issues	DMF, DCM, DWQ, WRC	March 2012	PC	CRC has begun a review of its land use planning guidelines. In addition to the certification process components, the management topics will be reviewed and it is expected that sea level rise will be incorporated in some form. NC Coastal Resources Law, Planning, and Policy Center leading an effort to determine emerging/priority issues facing the inner coast over the next 10-15 years. The	326

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					resulting report may be submitted to various state agencies, local governments and rule-making entity, as appropriate. The report is a complement to the recent Ocean Policy Steering Committee report. Basin Planners have never had any discussions with DCM regarding "Inner Banks" development issues nor were they even aware that was an action to be addressed (Dianne Reid/DWQ).	
1.4	DWQ Basinwide Planners review CAMA Land Use Plans	DCM, DWQ	Ongoing	DK	DLUPs reviewed by DWQ basin-wide planners in 2010: Caswell Beach, Dare County, Kill Devil Hills, Hertford, Holden Beach, Oak Island, Ocean Isle Beach, and Sunset Beach (John Thayer/DCM). DWQ has not received any to review during this time period (Dianne Reid/DWQ).	306
2.1a	Complete photo-interpretation of 2007-08 coast-wide SAV imagery.	DMF, DENR-ITS, APNEP	2011	PC	Don Field (NOAA) has digitized portions of Bogue and Core sounds and eastern Pamlico Sound, but the remaining needs to be digitized. No DMF progress because position vacated and frozen due to budget.	372
2.1a	Seek dedicated funding for the state SAV mapping program.	DENR-ITS, DMF-Habitat Protection & Resource Enhancement, APNEP	2010	PC	Federal funding is available to hire one GIS analyst. The GIS analyst position with DMF has not been filled (6/23/10). Position in process of hiring.	373
2.1a	Map deep (> 15 ft) estuarine bottoms, starting with lower Neuse River.	DMF-Resource Enhancement section		NA	Mapping planned but no areas completed. The USACE has some location information for deep shell bottom in the lower Neuse River. The DMF Fisheries Management Section has location information on deep shell bottom in the lower Pamlico River/Pamlico Sound.	371
2.1b	DMF and NERR will initiate SAV monitoring of sentinel sites	DMF, NERR	Ongoing	PC	Survey work by NERR conducted in 2007-2008 (see 07-09 action). The NC Coastal Reserve conducted a survey of members of the NC Interagency SAV Work Group to determine SAV outreach needs. The survey was used to develop a matrix of priorities for outreach products and audiences, as well as a plan to address those needs. The plan was incorporated as an outreach task of an SAV monitoring proposal submitted by members of the SAV Work Group for 2009 NC CRFL Marine Resources funding. Although the outreach task was not funded for 2009, it provides a basis for future proposals. DMF not conducting any sentinel site monitoring of SAV at this time.	307
2.1b	Conduct cooperative DMF/NOAA research evaluating methods for evaluating status and trends in SAV distribution and condition.	DMF-Habitat Protection section, APNEP	Finish by 2011	PC	Work continuing with extension of project into 2010 growing season.	374

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2.1b	Continue mapping of all shallow estuarine bottom and bottom types.	DMF-Resource Enhancement section	Ongoing	PC	41,570 and 37,172 acres mapped in 2009 and 2010, respectively. Counties where mapping occurred Hyde, Carteret, Brunswick, and Onslow. As of 9/14/2010 the following areas remain unmapped: Brunswick County: Lockwood Folly to Snows Cut/Bald Head Island/New Inlet, Mainland Hyde County: West Bluff Bay to Berrys Bay (minus the following areas mapped: Lake Mattamuskeet Outfall Canal, Middletown Creek, Cedar Creek).	375
2.2	Conduct SHA evaluation and designation process for Pamlico Sound and tributaries (Region 2).	DMF-Habitat Protection section, WRC	Dec. 2010	I	Committee formed, began meeting in April 2010 and analysis is underway with assistance from Sea Grant fellow. Expected completion date Dec 2010.	377
2.2	Integrate resulting criteria and information from SHA committee into DENR Divisions' guidelines, policies, and rulemaking.	DMF-Habitat Protection section and Directors Office, WRC	Start July 2009; continue through SHA designation	PC	SHA nomination is currently included as information in planning for conservation (6/23/2010). Strategic Habitat Areas were proposed as EFH-HAPC by SAFMC. SHAs need to ground-truth before consideration in rule-making, though some consideration could be given in the permit review process.	379
2.2	Conduct SHA evaluation and designation process for White Oak basin (Region 3).	DMF-Habitat Protection section, WRC	2011	NA	No change from 07-09 status.	376
2.2	Work with DENR to include SHA priorities within EEP local watershed plans and DENR conservation planning tool.	DMF-Habitat Protection Section, EEP	Ongoing	PC	Currently working with ECU and EEP to relate SHA and local watershed plans that will benefit ecosystem restoration efforts (6/23/2010). EEP incorporating underlying data from the SHA prioritization into the River Basin Restoration Priority updates for the Pasquotank, Chowan, and Roanoke plans in the most recent cycle.	354
2.2	Study the feasibility and benefits of developing an SAV Restoration Program.	DWQ, EEP, DMF, WRC	2011	PC	APNEP Partners SAV mapping and monitoring group has been developing a plan. The USACE in leading an SAV restoration effort in Currituck Sound.	335
3.1a	Enhance Oyster Shell Recycling Program. Discourage use of shell material for landscaping or other uses besides shellfish cultch.	DMF-Resource Enhancement section	Ongoing	PC	19,724 bu collected fy 09/10.	381
3.1a	Work with university researchers to monitor fish/invertebrate use of oyster sanctuaries and effect of oysters on local water quality.	DMF-Resource Enhancement section	Ongoing	PC	All 9 sanctuaries sampled by DMF for recruitment, survival and growth. Work is in progress regarding university research activities references in 07-09 IP (action #s 261 and 256).	382
3.1a	Cooperate with university researchers on oyster larvae distribution and movement investigations	DMF-Resource Enhancement section	2009-2011	PC	NCSU (Eggleston's group) continue work on this. Refer to draft 2010 CHPP.	383

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3.1a	Support funding for establishment and operation of shellfish hatcheries.	DMF-Resource Enhancement section and Directors Office	Ongoing	PC	Hatchery construction completed but needs operations budget.	384
3.1a	Continue expanding the oyster sanctuary program, seeding sanctuaries with live oysters, and constructing a shellfish hatchery	DMF-Resource Enhancement section	Ongoing	PC	Oyster sanctuary #10 has been established in Pamlico Sound off Gibbs Point (6/23/2010). 48-150 ton mounds constructed (7,200 tons class B riprap). No seeding due to budget. Hatchery construction completed but need operations budget.	380
3.1b	DENR review of state agency requests to the Natural Heritage Trust Fund will place a priority on those proposals that would further the protection and restoration of critical fisheries habitats.	DENR, DMF-Habitat Section	Ongoing	DK	Do funding requests to Natural Heritage Trust Fund consult DENR's Conservation Planning Tool for guidance/priority?	395
3.1b	The CRC may amend its administrative rule governing coastal wetlands (15A NCAC 7H 0.0205 Coastal Wetlands) to prevent alteration resulting in conversion of wetlands to uplands over time.	DCM	Ongoing	PC	In 2009, the CRC implemented rule changes to restrict how and when marsh can be mowed to maintain viability of the vegetation. The proposed changes include a list of standards under which limited alterations, or alterations by resource agencies or academic institutions, shall be exempt from permit requirements. A second public hearing was heard at the June 29 meeting with an anticipated effective date of November 1, 2009.	309
3.1b	Establish and maintain an inventory of restoration projects describing the location, amount, and type of habitat established in the coastal river basins.	APNEP, EEP, CWMT, DWQ	Ongoing	C	DWQ has a database of wetland mitigation sites. See Tammy Hill for access to the data (John Dorney/DWQ). EEP maintains a database of restoration projects and will provide DMF with updates of projects located in coastal river basin SHAs. EEP tracks the number of streams, wetland (riparian, non-riparian, coastal marsh) and buffer projects. As of April 2010, EEP has over 170 restoration, enhancement, and preservation projects with the drainages containing SHAs. These projects encompass more than 120 miles of stream, 25,000 acres of riparian and non-riparian wetlands, 520 acres of coastal marsh, and 860 acres of buffer.	334
3.1b	The DFR will work with other DENR agencies to start pre-construction water quality and water quantity monitoring of 'The Canal'.	DFR	State late 2008-early 2009	PC	Supporting WQ/biota monitoring funding in the amount of \$23,000 was procured from NCDOT and APNEP in 2009-10, and the contract supporting the monitoring vendor, NCSU Bio-Ag Engineering Department, was finalized in August 2010. The DFR and monitoring vendor are presently finalizing the scope of work. Monitoring of the stream will commence in September 2010. The stream restoration itself is planned to occur in the 2015 timeframe; therefore, ample preconstruction monitoring data should be realized. Additional monitoring funding is needed in 2011.	349

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3.1b	Work with the Corps of Engineers and the Department of Transportation on innovative mitigation projects and an appropriate crediting system for them under the EEP. Such projects may include the protection and restoration of SAV and oyster beds, and the removal of certain dams and other aquatic organism barriers.	EEP	Ongoing	PC	During the past year, EEP presented two non-traditional mitigation strategies to the interagency Review Team that oversees the approval of mitigation credits for the program, including (1) barrier removals, and (2) water storage and treatment under agriculture fields in the coastal plains. Discussions about their viability as mitigation projects is ongoing.	355
3.1b	DSWC encourage local SWCDs to include Strategic Habitat Areas and other CHPP priorities in local priority ranking system for the Agriculture Cost Share Program and the Community Conservation Assistance Program.	DSWC	2009-11	PC	The DSWC is working with DMF to obtain SHA data in a format that is suitable to share with SWCDs; once complete, this information will be shared with affected areas, and SWCDs will be encouraged to use these SHAs in their priority ranking system for cost share programs.	359
3.1b	Make protection and restoration of critical fisheries habitats a priority part of the One North Carolina Naturally initiative, such as developing conservation plans for the twenty coastal counties that identify potential conservation focus areas.	DENR, DMF-Habitat Section	Ongoing	PC	DMF-Habitat section submitting both habitat data and Strategic Habitat Area nominations to DENR's Conservation Plan Tool.	396
3.1b	The Department will assist coastal local governments in identifying navigation and stream restoration projects of particular importance to both fish and fisheries with grants from the State-Local projects program of the Division of Water Resources.	DENR, DWR	Ongoing	DK		397
3.1b	Include Strategic Habitat Areas as a priority area for CREP.	DSWC	Ongoing	PC	The DSWC is working with DMF to obtain the SHA data layers for Region 1 so this may be incorporated in the CREP priority Areas for 2010	358
3.2	Develop minimum criteria for monitoring beach nourishment projects.	DCM	Ongoing	NA	Part of the Beach and Inlet Management Plan (BIMP); no action at this time.	310
3.2	Complete beach and inlet management plan	DCM	August 2009	I	DENR is currently reviewing a final draft of the document and it was expected to be released in August 2009. On hold.	311
3.2	DCM will serve as a clearinghouse for beach nourishment monitoring data	DCM	Ongoing	NA	Part of the Beach and Inlet Management Plan (BIMP).	312
3.2	Consider development of conservation lease for the purpose of oyster and other habitat restoration	DMF-Habitat Protection Section	2011	PC	Was considered in the latest oyster FMP and presented to the CHPP Steering Committee in 2009 (6/23/2010).	385
3.2	Work with the Division of Water Resources to minimize conflicts between Aquatic Weed Control practices and protection of SAV habitat	DMF-Habitat Protection Section	Ongoing	PC	Established agreement for DWR to contact DMF prior to spraying any SAV in coastal or joint waters.	386

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3.4	Support/promote efforts to develop shoreline stabilization demonstration projects along non-ocean shorelines.	DCM	Ongoing	PC	The NC Coastal Reserve Program has initiated a project focusing on three regions along North Carolina's coast (northern, central, southern), where researchers from NOAA, NC NERR, the UNC-W, and UNC-Chapel Hill will assess the ecosystem impacts of shoreline stabilization. The project also includes the design and construction of a demonstration project based on alternative shoreline stabilization techniques at the Rachel Carson component of the NC NERR. During the project, an approach to evaluate ecological and socioeconomic costs and benefits of shoreline erosion and protection alternatives will be developed. The researchers will work closely with an advisory panel composed of local, state, and federal resources managers, contractors, property owners and other stakeholders. The NC NERR will develop outreach and educational products to disseminate the knowledge and tools developed by the research team.	316
3.4	Use NOAA grant to delineate estuarine shorelines; apply methods to CAMA counties.	DCM	June 2011	PC	The estuarine shoreline and associated commercial , recreational, and erosion control structures have been delineated for seven coastal counties. Eleven additional counties are expected to be delivered to DCM by June 30, 2011. Once shorelines are delineated, they go through an extensive QA/QC process by DCM. Currently, the shoreline of Tyrell County has been delivered to DCM, having gone through the QA/QC process and is ready for distribution.	317
3.4	Work with NOAA's Technical Advisory Committee members in their sponsored research program "Ecological Effects of Sea Level Rise" to develop information/tools to better forecast and manage landscape responses of critical natural resources relative to sea level rise.	DCM, DMF-Habitat Protection section	Ongoing	PC	The DCM worked with DENR to co-host a sea level rise forum in January 2010 intended to display the best available science on current and project sea level rise for NC to help form the scientific basis for policy and management decisions. All scientists and researchers investigating sea level rise in the state were invited to present their work. The target audience will include legislators, state and local policy makers and resource managers, elected officials, emergency managers, planners, infrastructure interests, conservations, private sector and other interested parties. The forum focused on how much relative sea level rise should NC prepare for by 2100.	315
3.4	Encourage alternatives to vertical shoreline stabilization methods through permit requirements and fees.	DCM	Ongoing	PC	Marsh sills added as a cost-share practice for the Community Conservation Assistance Program in DSWC. In 2009, the DCM developed a decision making tool (web based and paper brochure) to assist property owners in making appropriate shoreline stabilization decisions based upon their shoreline and adjacent water characteristics.	314
3.4	Refine rule 15A NCAC 07H .2700 GP for Marsh Sills.	DCM	Ongoing	PC	Marsh-sill site evaluations are complete and results are currently being discussed with agencies in progress.	313

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3.4	Consider erosion rates as an additional factor in the siting of structures along estuarine and public trust shorelines.	DCM	After 2011-2013	NA	DCM not ready to work towards this action yet, and is not planned on in the next 2 year IP cycle.	318
3.5a	Continue to study the feasibility and benefits of dam and barrier removal in general and for mitigation.	DMF-Habitat Protection, WRC, DWQ, EEP, ACE	Ongoing	PC	Milburnie dams on the Neuse River and Atkinson mill dam on the Little River being targeted for removal. American Rivers pursuing partners in removal of other obstructions (6/23/2010).	389
3.5b	Survey previously identified Albemarle Sound river herring spawning areas to estimate current condition and spawning function, and identify stream obstructions on river herring spawning streams.	DMF-Fisheries Management section, WRC	Ongoing	PC	River herring spawning surveys have been completed for the Chowan, Perquimans, and Little river. Other areas remain to be surveyed.	388
3.5b	The Department, through the Division of Water Resources and the Ecosystem Enhancement Program will pursue dam removal projects where appropriate.	DWR, EEP, ACE	Ongoing	PC	EEP with several planning partners applied for funding to develop a dam removal assessment tool as part of the Wake-Johnston Collaborative Local Watershed Plan. EEP joined the new NC Dam Removal Task Force coordinated by American Rivers.	356
4.1a	Work with the Department of Agriculture and Consumer Services to develop and implement a drug disposal program for pharmaceuticals.	DMF/MFC, DWQ/EMC	2011	PC	MFC wrote letter requesting assistance from the Attn Gen. DMF wrote letter to DEA supporting need for drug disposal program. No change yet from DEA.	336
4.1a	Seek funding to initiate research on impacts of endocrine-disrupting chemicals to blue crabs and oysters.	DMF-Habitat Protection Section	2011	PC	Issue paper presented to Joint Legislative Commission for Seafood and Aquaculture in 3/2010 to increase awareness & explain need for funding associated research.	390
4.1b	Evaluate 15A NCAC 2H .0400 and 2B .0500 regulations for opportunities to provide incentives for upgrading all types of wastewater treatment systems and make recommendation to EMC.	DENR, DWQ	Ongoing	NA	<p>Good example of local actions: The Town of Nags Head implemented a Septic System Inspection and Tank Pumping Program - offers incentives including a free system inspection, a \$30 credit for having their septic tank pumped as a result of the septic inspection, and a low interest loan program for replacement of malfunctioning systems needing repair. Inspection reports are entered into a database to track failures, site use, age of system, size of tank, etc.</p> <p>HB 1746 Water Infrastructure Information Needs directs DENR, to establish a task force to:</p> <ul style="list-style-type: none"> • Develop a statewide survey to supplement the information gathered through EPA's water and wastewater infrastructure needs assessment; • Develop a plan for incorporating all information into the state water supply plan, • Make recommendations on a plan for consolidating and integrating information on statewide water and wastewater infrastructure needs, resources and funding. 	327

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					It also directs DENR and the Local Government Commission to jointly evaluate the costs and benefits of measures to increase the financial oversight of public water systems and wastewater systems to ensure that the systems are financially sound.	
4.2	Evaluate 15A NCAC 2H .0400 rules as they apply to ocean wastewater treatment systems and make recommendation to the EMC regarding modifications.	DWQ	Ongoing	NA	Really no movement on the rules due to staffing cutbacks, etc.	328
4.3	Work with DENR to prioritize stormwater outfall mapping efforts on areas near critical fisheries habitats and implement DOT's Stormwater Pilot Project on new and innovative technologies to clean up discharges from DOT outfalls and associated outlets.	DENR, DOT, DWQ, DEH-SS&RWQ	Ongoing	PC	Work has been conducted by DWQ (municipalities) and DEH-Shellfish Sanitation and Recreation Water Quality section (shellfish harvest water shoreline surveys).	400
4.3	Evaluate impact of deep-water ocean outfall for stormwater management.	DWQ	2009-11	NA	Funding cut. However, one stormwater BMP installed in Nags Head ocean outfalls and 8 more planned; monitoring report due in Fall 2011.	337
4.3	Enhance DWQ coastal/state stormwater database by mid-2011	DWQ	2009-2011	NA	Issue remains, priority on providing accurate new permit data. When resources are available, existing database will be updated.	340
4.4	Pursue funding for the Community Conservation Assistance Program with emphasis on CHPP stormwater priorities in coastal counties	DSWC/DENR	2011	PC	For PY2011, ~\$136K recurring funds included in the state budget. In coming months, grant funds will be pursued to supplement the state allocation.	360
4.4	Provide funds to local governments for educating citizens in their jurisdictions about DWQ's Neuse and Tar-Pamlico riparian buffer rules.	DWQ	Ongoing	DK		331
4.4	Provide Phase II stormwater educational & technical assistance to local governments through the DENR Runoff Pollution Campaign and through partnerships with the Division of Community Assistance and UNC Institute of Government.	DENR, DWQ	2011	DK		341
4.5a	Enhance DCM education efforts such as the N.C. NERR Septic Systems Workshops.	DCM, NERR	Ongoing	PC	Workshops currently planned for next year include topics such as water reuse (I.e., rain water harvesting, gray water use), stormwater workshops for realtors, a microbial pollution workshop, and a grant writing workshop depending upon budget constraints.	319
4.5a	The DFR will seek funding to purchase 'rehab' fire plows	DFR		NA	In 2009, DFR's request for grant funding via the Coastal Recreational Fishing	350

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	for five of its coastal-based district offices.				License Grant (CRFL) was rejected. A second application as not submitted for the 2010 CRFL Grant RFP, because this latest RFP specified narrow grant objectives and DENR agency partnerships limited to DMF and WRC.	
4.5b	The DFR will begin long-term water quality and water quantity monitoring of Beddingfield Creek during 2007 in anticipation of implementing a 3,000+ acre watershed restoration effort in the Neuse River Basin.	DFR	2007-09	I	No progress to date due to other project priorities.	351
4.5c	Coordinate with Wetland Functional Assessment Team to determine wetland status and trends.	DCM, DMF, DWQ, WRC	Ongoing	NA	DWQ needs EPA funding to do this and they can write a grant for next year although EPA is unlikely to fund it (John Dorney/DWQ). Suggest discontinuing this action or changing wording to address monitoring wetland status and trends.	320
4.5g	Implement workshops for engineers and consultants on stormwater, buffer, and 401 Water Quality Certifications.	DWQ, WRRI	Ongoing	PC	DWQ partners with WRRI to conduct to conduct 2 educational workshops a year for engineers, consultants, local government staff and others. Past workshops have focused on stormwater but also had talks on buffers, wetlands, and 401 certifications. Also there is the Consolidated Buffer Rules proposal under consideration	330
4.5g	Enhance forestry BMP compliance with education videos, outreach projects, and guide books.	DFR	Ongoing	PC	BMP video #4 was produced in June 2010 on the topic of sediment control and site stabilization. The video is being incorporated into the statewide 2010-2011 NC ProLogger Program's annual training module that is expected to reach approximately 1,400 loggers. A limited number of video copies will be duplicated and distributed.	353
4.5g	Obtain funding to restore designated streams and associated wetlands designated as anadromous fish spawning areas in the Albemarle Sound area as implementation steps for the River Herring Fishery Management Plan.	DMF-Fisheries Management section, APNEP, EEP, WRC		PC	EEP incorporates PNAs into the screening process for its River Basin Restoration Plans in this region in 2009. The Targeted Local Watersheds (TLW) designation is required for EEP (and others) to spend funds on mitigation projects in those TLWs (Rob Breeding/EEP). Whether AFSAs are also incorporated is unknown.	357
4.6a	EMC solicit public comment on a proposal to extend the vegetative setback for new development within the 20 CAMA Counties from 30 feet to 50 feet.	DWQ		C	With passage of new Coastal Stormwater Rules, this item is complete	342
4.6c	Expand CAMA Areas of Environmental Concern (AECs) upstream and landward within CAMA counties.	DCM		NA	The Division in reconsidering this action pending completion of the estuarine shoreline mapping project.	321
4.6e	Develop a mitigation policy for intermittent streams.	DWQ, EEP		C	DWQ now requires compensatory mitigation for all impacts to intermittent streams over 150 linear feet (John Dorney/DWQ).	345
4.7	Seek dedicated funding to staff DCM's Clean Marina	DCM	Ongoing	PC	DCM has hired a part-time Clean Marina/Clean Vessel Act coordinator	302

Status codes: PC=Partially complete (ongoing or no target year), C=Complete, I=incomplete, NA=no action, DK=do not know

2009-2011 CHPP Implementation Plan (2010 update)

Goal/Rec	Action	Lead	Target Year	Status	Details	ActionID
	Program and effectively implement Best Management Practices as a non-regulatory way to improve water quality in and around marinas and docks					
4.7	Inventory docks and piers in the 20 coastal counties.	DCM		PC	Part of Ancestor action #80 (shoreline and structures inventory)	322
4.7	Incorporate EMC's prohibition of marinas in ORWs into CRC rules.	DCM		NA	No action. May need to reassess necessity.	323
4.7	Evaluate marina development standards (rule NCAC 7H .0208(b)(5)). CRC consider rule changes to implement in dock and pier management.	DCM	Ongoing	PC	The rule referenced in Action #248 went into effect July 1, 2009	324
4.7	Improve wastewater/stormwater management at coastal marinas	DWQ, DCM	Ongoing	PC	The DWQ decided to use education and outreach to provide guidance to the marinas industry re: how to reduce its impact to water quality from boat-cleaning operations. These materials are located at http://h2o.enr.state.nc.us/ws/marinas.htm . Marinas and boatyards that provide services for boat maintenance, repairing, or building are required to obtain an NPDES Stormwater General Permit called the NCG190000. This permit was renewed on October 1, 2009 and contains a few additions and changes that were partially affected by a DWQ study in 2008. 205J funding has been allocated for up to 4 workshops in the Fall of 2010. A new website has been developed and a factsheet has been mailed to all marinas.	325
4.7	North Carolina's Clean Marina Program and Clean Vessel Act activities will emphasize the threats to fish habitat and benefits of BMPs	DCM	Ongoing	PC	2010 reprint of the Boaters Guide to Protection of Coastal Resources has been expanded to address additional recreational impacts on coastal habitats (marine debris, vessel sewage, n-discharge zones)	301
4.8a	Support early implementation of environmentally superior alternatives to waste lagoon and spray field systems. Encourage commissions to express their support for early implementation.	DENR, DWQ	Ongoing	PC	Rules for new or expanding swine farms became effective on 1/1/2009. These rules apply to LCP projects as well. Four farms have voluntarily converted to innovative systems through LCP and CWMTF grants. DSWC and DWQ are reviewing three additional projects for conversion through the LCP process.	329
4.8a	The Department, through the Division of Pollution Prevention and Environmental Assistance, will provide contract and independent swine farms with the technical assistance and training needed to implement effective Environmental Management Systems.	DENR, DPPEA		DK		399

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