



RHODE ISLAND  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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November 8, 2004

The Honorable Donald L. Carcieri  
Governor  
State of Rhode Island  
Executive Office  
State House - Room 222  
Providence, Rhode Island 02903

Robert Varney  
Regional Administrator  
US Environmental Protection Agency – New England  
One Congress Street  
Boston, Massachusetts 02114-2023

Dear Governor Carcieri and Administrator Varney:

I am pleased to present the Department of Environmental Management's Fiscal Year 2004 Progress Report and Fiscal Year 2005 Work Plan Update.

The past year was an active and productive one for DEM, and we made generally good progress in meeting the goals set forth in our work plan. Some notable achievements include: backing the Governor's decision to adopt the CA-LEV standards for new cars sold in RI; supporting the work of the Greenhouse Gas Stakeholders Group and the implementation of the GHG Action Plan, including passage of new renewable energy legislation; assisting the RI Dairy Cooperative with the introduction of "Rhody Fresh Milk" into local markets; and conducting over 3,200 inspections and issuing over 1,300 enforcement actions to address problems of noncompliance with State environmental laws and regulations.

A key development in Fiscal Year 2004 involved the redirection of Departmental resources to address emerging new priorities associated with the protection and management of Narragansett Bay and its watershed. While this shift delayed some of our other objectives, such as meeting our ambitious TMDL timelines, the Bay-related initiatives, bolstered by new laws and commitments of state resources, are of central importance to our core mission, and are thus reflected in our Fiscal Year 2005 update.

In the important area of land preservation, we protected 1,824 acres in Fiscal Year 2004 and leveraged state funds with other sources at a favorable 3:1 ratio. That achievement, while

noteworthy, fell short of our goal of protecting 3,000 acres per year. Soaring land prices were a key factor, as was the shrinking availability of state bond funds. The new \$70 million Open Space, Clean Water bond passed by voters last week should give us the boost we need to accelerate our land protection program in the years ahead.

Proposed budget reductions for the next fiscal year will pose new challenges in our efforts to keep pace with the goals and objectives set forth in our work plan, but we will continue to do our best to target our available resources to address the critical needs of the State.

Thank you both for your continuing leadership and support.

Sincerely,

A handwritten signature in cursive script that reads "Frederick J. Vincent".

Frederick J. Vincent  
Acting Director

cc: Margarita Pryor, EPA

Rhode Island  
Department of Environmental Management



*Fiscal Year 2004 Progress Report &  
2005 Work Plan Update*



Cover Photo: Toste Farm, Tiverton/Little Compton, RI

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# ***DEM Strategic Work Plan Progress Report FY 2004***

## **A Year of Big Challenges, Big Successes and Big Set Backs**

### **Introduction**

This is the Department's work plan progress report for the first year of DEM's 2004/2005 Strategic Work Plan, Fiscal Year 2004 (FY04), July 1, 2003 through June 30, 2004. It outlines our progress toward meeting the six goals in our work plan: clean air; clean and plentiful water; land preservation and restoration; healthy communities and ecosystems; compliance and enforcement; and cross-goal strategies.

### **Highlights**

Fiscal year 2004 was marked by some outstanding successes, such as the adoption of major legislation and policies related to Narragansett Bay and clean energy, as well as some significant challenges, such as the fish kill and beach closings that gave rise to the new Bay initiatives.

Of the 464 tasks in the work plan, 62 % were either on track or completed, while 33 % were delayed due to changed priorities or resource constraints.

**Narragansett Bay** - The prime example of changed priorities is the response of the state to the Greenwich Bay fish kill and the beach closings. Many DEM staff shifted their efforts in order to provide support for an intensive collaboration among elected and appointed officials to address the water quality problems in the Narragansett Bay watershed.

The first challenge was providing an immediate response. Tasks ranged from cleaning up dead fish, taking samples and analyzing data, and developing plans for accelerating nutrients and bacteria reduction strategies, as well as analyzing resources needed to complete WWTF upgrades, stormwater controls, and habitat restoration. Later efforts included compiling, analyzing and reporting on technical, policy and fiscal data to support legislation development by the administration for a phase out of cesspools and for a new bond issue for land and water needs. The Department sped up the development of draft permit modifications for nitrogen removal at the Fields Point, Bucklin Point and East Providence wastewater treatment facilities.

New legislation enacted in 2004 will coordinate planning and management, improve monitoring, reduce nutrient pollution, improve response to Bay-related emergencies, and provide resources for restoration. The laws establish:

- The seven-member Rhode Island Bays, Rivers and Watersheds Coordination Team in the Governor's office charged with coordinating developing and implementing by June 2006 that establishes overall goals and priorities for water quality protection and sustainable economic development of bay-related businesses.
- The ten-member Watershed and Marine Monitoring Collaborative to develop and implement a statewide monitoring strategy within 6 months.
- DEM authority to implement a 50 percent nutrient reduction standard through wastewater treatment plant permit changes, along with a requirement for DEM to prepare a nutrient management/eutrophication control plan by February 2005.

In addition Governor Carcieri established the Bay Assessment and Response Team (BART) to respond to urgent situations such as fish kills and oil spills and a 24-hour DEM telephone line (222-8888) that allows the public to receive information and to report concerns.

Appendix A contains an addendum to DEM's 2004/2005 Strategic Work Plan in response to the Governor's initiative on Narragansett Bay and Watersheds.

The tables herein provide detail regarding major progress to date and major changes and initiatives for 2005. The following are additional notable highlights for FY2004.

**Climate Change, Air and Energy** - Efforts under the Greenhouse Gas Project during its first three years paid off in major legislation and policy adopted this spring. In May Governor Carcieri directed DEM to create regulations to adopt California's Low Emission Vehicle Standard for new cars and light-duty trucks purchased in Rhode Island. The Governor also signed the Renewable Energy Standards Act in June.

Two draft Executive Orders will provide for clean state fleets and green facilities at a projected savings of \$49 million by 2020. DEM also launched an effort with the Department of Education and the Department of Health to limit school bus idling and to take other steps to reduce exposure of school children to diesel exhaust emissions.

**Water Quality Restoration Plans** – Of the thirty-one Water Quality Restoration Plans (or TMDLs) scheduled for completion in Fiscal Year 2004, five have been finalized, and another eighteen have complete drafts which have been through the public review process and are being finalized. The state's nutrient reduction strategy for the Bay, though not formatted as a TMDL at this point, addresses two of the remaining TMDLs (Providence and Seekonk Rivers). The remaining TMDLs are in various stages of completion. Delays in meeting the proposed TMDL timeframes are the result of staffing shortfalls and priority shifts (to enhance monitoring of Narragansett Bay).

**Land Preservation** - The state did not meet its target for acres preserved (3,000 per year). It did exceed its target for state preservation dollars leveraged (1 to 2). In state fiscal year 2004 1,824 acres were preserved and the state leveraged every state dollar spent on land preservation with 3 dollars from other sources. Skyrocketing land prices will make it very difficult to achieve the 3,000 acres per year target in the coming years. Moreover land preservation funds are nearly exhausted, making passage of the 2004 land, water and recreation bond a critical necessity.

**Habitat Restoration** - Major advances included the completion by the Army Corps of Engineers and DEM of their restoration of the 20-acre Lonsdale Marsh, the largest freshwater wetlands system in the state and of the use of \$250,000 in OSPAR funds to restore Town Pond/Boyd's Marsh and restoration of the South Shore Coastal Ponds Project, estimated at \$968,000.

**Agricultural Products** - Rhode Island agriculture marketing strength continued to grow with the introduction of the Rhody Fresh milk product campaign in early July 2004 after six years in development with the Rhode Island Dairy Cooperative. Our marketing support for local farm



products also helped Rhode Island farms to remain among the top five states in the country in the value of direct sales to consumers. The average value of products sold at Rhode Island farms directly to consumers was \$20,539, putting Rhode Island in second place, with Massachusetts first (\$24,874), and Connecticut third (\$20,056).

**Compliance Assistance and Enforcement** - The Department responded to more than 3,100 complaints, conducted over 3,200 inspections, issued 101 formal and 1,223 informal enforcement actions, began 37 criminal investigations and responded to 858 environmental emergencies. The Department also filled key positions to increase safety at recreation areas during high use periods and to deter boating while intoxicated. DEM continued strategies to encourage compliance, such as the Environmental Results Programs (ERP), by obtaining funds to expand the successful auto body certification ERP model to auto salvage yards.

Despite these impressive results and successes, several compliance assistance and enforcement programs are significantly delayed or eliminated due to lack of resources, increasing legal complexities in enforcement and the added responsibilities of emergency preparedness planning since the September 11, 2001 attack. The Department's plan to work with stakeholders to revitalize the Pollution Prevention (P2) program has been put on hold. The Dam Safety Program has only one engineer/inspector to oversee the state's 528 dams, delaying adoption of comprehensive regulations to address the 2001 recommendations of the Governors Task Force on Dam Safety and Maintenance as well as inspections. Only 150 out of 300 dams planned for inspection were actually inspected.

Other setbacks included delays in development of a database to track performance of enforcement cases and penalty collection; development of a multi media inspection program; and development of workbooks and checklists for underground storage tanks, dry cleaners and lead paint contractors. These tasks will be completed, albeit in FY05 rather than in FY04. The Department also struggled to keep up with prosecution of cases before the Superior Court.

**Funding** - Major grants secured in FY04 included: \$1.2 million for the Blackstone Watershed Integrated Water Resources Management Project; \$414,000 for Homeland Security; \$500,000 for air toxics study monitoring Green Airport; \$555,000 for marine fisheries law enforcement; \$50,000 for Greenwich Bay Riparian Project; \$60,500 for Greenhouse Gas Action Plan implementation and stakeholder process; \$83,000 for Pawtuxet River fish passage; and \$198,000 for the Senior Farmers' Market Nutrition Program.

Despite Governor Carcieri's restoration of nearly one million dollars to the final DEM budget, we anticipate additional funding challenges as we move into FY05 and beyond. We are hopeful, however, that the \$70 million Open Space, Recreation, Bay and Watershed Protection Bond on the November ballot will help fund strategic investments in these areas.

## Clean Air

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Reduce ozone, fine particulates, air toxics and CO<sub>2</sub>:</i></p> <ul style="list-style-type: none"> <li>• Begin development of post-2007 I/M program in FY 2005 to enhance light duty vehicle I/M program.</li> <li>• Implement and monitor registration denial system.</li> <li>• Develop/amend rules as necessary for mobile equipment repair, solvent cleaning, portable fuel containers, consumer products and architectural and industrial maintenance coatings by 12/04.</li> <li>• Issue 6 new or renewed air toxic operating permits by 6/04 to improve compliance evaluation.</li> <li>• Implement heavy-duty diesel (HD) vehicle inspection program by 7/03; begin periodic inspections by 11/04 to reduce on-road emissions from heavy-duty diesel vehicles.</li> </ul>	<ul style="list-style-type: none"> <li>• Reviewing options.</li> <li>• Began pilot program 1/04, ongoing process.</li> <li>• Promulgate rules by 6/05.</li> <li>• 9 permits in final review. New date 10/04.</li> <li>• Developed Memorandum of Understanding (MOU) with State Police. HD vehicle inspection by 1/05 and periodic inspections by 1/06.</li> </ul>
<p><i>Reduce diesel emissions by using ultra low sulfur diesel fuel (ULSF) and promoting control equipment retrofits:</i></p> <ul style="list-style-type: none"> <li>• Develop a voluntary anti-idling program for school buses and other vehicles by summer 2004.</li> <li>• Secure a commitment to use ultra-low sulfur diesel fuel in state vehicles and in vehicles used in state funded projects by 12/04.</li> <li>• Target one or two school districts for ULSF and retrofits. Negotiate agreement by 3/04 and help district(s) to apply for federal funds in early 2004 for ULSF and to retrofit buses.</li> </ul>	<ul style="list-style-type: none"> <li>• Hired Regional Asthma Council to develop and promote program; sent letter to school superintendents to encourage participation.</li> <li>• New date 12/05.</li> <li>• Included as part of the anti-idling outreach. Negotiate agreement by 12/04 and apply for funds in the next federal grant cycle.</li> </ul>
<p><i>Promote policies that result in reduced emissions from the transportation sector.</i></p> <ul style="list-style-type: none"> <li>• By 12/03 evaluate California Low Emission Vehicle (CA LEV) standards for possible adoption.</li> </ul>	<ul style="list-style-type: none"> <li>• Gov. Carcieri announced that RI will adopt CA-LEV standards for new cars sold in Rhode Island. Promulgate regulations by 12/04.</li> </ul>
<p><i>Reduce emissions from stationary sources.</i></p> <ul style="list-style-type: none"> <li>• By 7/05 inspect multiple in-state sources by conducting 411 inspections.</li> <li>• 50% of the dry cleaning facilities (80) within 6 months of revised requirements if resources allow.</li> </ul>	<ul style="list-style-type: none"> <li>• See Compliance Assistance and Enforcement section.</li> <li>• Revised requirements 4/04. Completed 20 inspections through end of 6/04.</li> </ul>
<p><i>Out of State Sources</i></p> <ul style="list-style-type: none"> <li>• Work with Ozone Transport Commission to develop a regional position on multi-point legislation and regulations to support national multi-pollutant legislation with timelines that will coincide with federally required state timelines for attainment of the 8-hour ozone standard.</li> <li>• EPA will adopt an 8-hour ozone implementation strategy that addresses downwind impacts by 12/03 to assure that upwind areas are accountable for their impacts.</li> </ul>	<ul style="list-style-type: none"> <li>• Adopted 1/04. Position available at <a href="http://www.otcair.org/document.asp?fview=Formal%20Actions#">http://www.otcair.org/document.asp?fview=Formal%20Actions#</a></li> <li>• EPA Implementation Strategy now scheduled for 9/04.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Accidental Releases</i></p> <ul style="list-style-type: none"> <li>Promulgate regulations by 4/04 to minimize accidental releases of hazardous air contaminants.</li> </ul>	<ul style="list-style-type: none"> <li>Drafted regulation, under internal review. To be completed by 12/04.</li> </ul>
<p><i>Climate Change and Energy</i></p> <ul style="list-style-type: none"> <li>Reduce greenhouse gas emissions by 176,000 tons of carbon equivalent by 2020.</li> </ul> <p>Complete Greenhouse Gas Action Plan Phase 2 strategies:</p> <ul style="list-style-type: none"> <li>Propose and support legislation by 7/04. <ul style="list-style-type: none"> <li>Vehicle Efficiency Incentive Act</li> <li>Renewable Portfolio Standards Act</li> <li>Efficient Appliances Act</li> </ul> </li> </ul> <p>Evaluate and implement Phase 3 strategies:</p> <ul style="list-style-type: none"> <li>Adopt regulation changes to encourage combined heat and power and clean distributed generation installations by 9/05.</li> <li>Develop tracking system for GHG emissions by 6/04, pending funding.</li> <li>(Statewide Planning) complete transit-oriented development (TOD) model one year from receipt of funding.</li> <li>(Narragansett Electric) develop residential appliance efficiency program by 3/04.</li> <li>Develop forestry workshop by 6/04.</li> <li>Number of pay-as-you-throw (PAYT) solid waste programs adopted by municipalities.</li> <li>Develop resource management contracting initiative pending RIRRC funding.</li> <li>Develop energy/GHG outreach and education plan by 3/04.</li> </ul>	<ul style="list-style-type: none"> <li>Too soon.</li> <li>Legislation drafted by GHG stakeholder group and submitted to General Assembly did not pass. GHG stakeholders to consider re-introducing in 2005 and working with MA.</li> <li>Governor Carcieri signed the RI Clean Energy Act 6/04. Requires 16% of energy sold in RI to be from renewable energy sources by 2020.</li> <li>Submitted to GA. Did not pass. Northeast Energy Efficiency Partnerships to re-submit bill for 2005 session.</li> <li>Begin stakeholder process by 10/04, promulgation by 4/05.</li> <li>Discussed regional standardized approach with EPA and other states. Continue to pursue funds and to develop the approach. Also, updated RI baseline and track reductions from existing programs.</li> <li>Washington County Planning Council is conducting a study of extending commuter rails to Wickford, Kingston and Westerly.</li> <li>Narragansett Electric is promoting right sizing selected appliances. Will encourage Narragansett Electric to increase education efforts and expand to more appliances.</li> <li>Held forestry workshop 6/04. Continue to work with working group members to implement recommendations.</li> <li>No interest due to artificially low municipal tipping fees.</li> <li>Unsuccessfully explored funding with RIRRC; Northeast Waste Management Officials Assn. to conduct workshop. Will continue to pursue.</li> <li>Conducted focus groups 12/03. Completed draft plan 6/04. Submitted unsuccessful application to RI Foundation for funding to implement plan. Finalize plan by 10/04. Continue to seek funding for implementation.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• Adopt (with Rhode Island State Energy Office) Government Lead By Example package of energy efficiency and renewable energy strategies by 7/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Governor Carcieri approved moving forward with Executive Orders for clean state fleets, energy efficient construction of state facilities, and purchase of environmental and energy efficient products and services by the state. Continue to work with DOA to implement executive orders.</li> </ul>
<p><b>NEW- FY 2005-</b> Evaluate and implement Phase 4 Strategies</p> <ul style="list-style-type: none"> <li>• Work with Department of Administration and State Energy Office to implement Lead By Example package by 6/05 and develop strategies to transfer to cities and towns.</li> <li>• Adopt regulations to implement California Low-Emission Vehicle Standards by 12/04.</li> <li>• Amend air regulations to encourage clean distributed generation by 12/04.</li> <li>• Raise funds to implement forestry strategies to encourage carbon sequestration and to conserve energy by 6/05.</li> <li>• Explore program similar to existing systems benefit charge (SBC) in electricity for all fuels to encourage efficiency and alternative fuels by 6/05.</li> <li>• Conduct technical analysis of options to reduce vehicle miles traveled (VMTs) by 6/05.</li> <li>• Develop a program to encourage colleges and universities to reduce GHG by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed research on efforts of other colleges and universities.</li> </ul>
<p><i>Enhance air quality monitoring networks to improve understanding of air toxics and PM2.5 pollution.</i></p> <ul style="list-style-type: none"> <li>• Update PM2.5 monitoring network by 1/04.</li> <li>• Initiate chrome VI monitoring at Rhode Island's National Air Toxics Trends Site and one other site by 8/03.</li> <li>• Initiate metals, VOC and carbonyls monitoring at Olneyville for one year beginning 8/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Established new site on Eddy St, Providence 1/04.</li> <li>• EPA is developing the analytical method; chrome VI beginning 1/05.</li> <li>• Began 1/04.</li> </ul>
<p><b>NEW – FY05</b></p> <ul style="list-style-type: none"> <li>• Initiate Air Quality Monitoring Study of TF Green Airport, Warwick.</li> </ul>	<ul style="list-style-type: none"> <li>• Appointed Public Advisory Committee of city and state representatives. Held first meeting to advise on monitoring site locations. Monitoring equipment procurement process underway.</li> </ul>

## Clean Water

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Water Quality Classification and Monitoring</i></p> <ul style="list-style-type: none"> <li>Update state water quality regulations to include bacteria standards for e coli/enterocci and FDA's shellfish standard by 2/04.</li> <li>Develop and implement Comprehensive Monitoring Strategy for 2005-2010, including wetland bio-assessment strategy by 12/03.</li> <li>Develop Wetland Bio-assessment Strategy by 2/05.</li> <li>Develop draft stream flow standards by 12/03.</li> </ul>	<ul style="list-style-type: none"> <li>Provided draft to EPA 5/04, public notice 10/04.</li> <li>Completed and released to stakeholders and EPA 9/04.</li> <li>On schedule.</li> <li>Draft complete. Now responding to comments. Final standards by 12/04.</li> </ul>
<p>Complete the following baseline monitoring:</p> <ul style="list-style-type: none"> <li>2,000 samples from 300 stations in 17 shellfish growing areas per year.</li> <li>24 annual surveys, 12 (3-year surveys), 2 (12-year surveys) by 12/05.</li> <li>Monitoring flow (ESS, URI, and USGS)</li> </ul> <p>Reporting:</p> <ul style="list-style-type: none"> <li>Publish State of the State's Waters and Impaired Waters Report by 9/04.</li> </ul>	<ul style="list-style-type: none"> <li>Collected 1,005 samples.</li> <li>Completed 75% of the field work; write-up needs to be done.</li> <li>Ongoing.</li> <li>Sent draft 303d list to EPA 7/04.</li> </ul>
<p><i>RIPDES</i></p> <ul style="list-style-type: none"> <li>Re-issue 12 major RIPDES permits by 6/05, focused on nutrient reduction. <ul style="list-style-type: none"> <li>Reduce backlog to 0 by 12/04.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Issued 5 major permit modifications</li> <li>Backlog 45% at end of 6/04; 4% by 12/04; 0% by 12/05.</li> </ul>
<p><i>Wastewater Treatment Facilities (WWTF)</i></p> <ul style="list-style-type: none"> <li>Ensure WWTFs are designed, constructed and operated to protect water quality. <ul style="list-style-type: none"> <li>NBC Bucklin Point: issue permit modification for nitrogen by 12/04. Construction to be completed by 9/06.</li> <li>Fields Point: issue permit modification for nitrogen by 12/04.</li> <li>East Providence: issue permit modification for nitrogen by 12/04.</li> <li>Warren: nitrogen limits awaiting Palmer River TMDL.</li> <li>East Greenwich: construction to be completed 2.5 years from issuance of Order of Approval. Nitrogen limit TMDL due 12/04.</li> </ul> </li> <li>Burrillville: Facilities Plan (FP) approved 12/02. Final design for improvements due 1/04.</li> <li>Smithfield: FP amendment and Preliminary Design submitted 5/03.</li> <li>Cranston: FP approved 7/03. Complete design reviews by 10/04.</li> <li>Warwick: upgrade completion required by 8/04.</li> </ul>	<ul style="list-style-type: none"> <li>Construction for nitrogen reduction approximately 90% complete. Draft modification 7/04.</li> <li>Draft modification 7/04.</li> <li>Draft modification 7/04.</li> <li>TMDL under development for completion by 12/05.</li> <li>Construction started 6/04; deadline for completion 3/06. Working with CRMC, CRC and others to address nutrient related problems through Special Area Management Planning process (rather than through nutrient TDML).</li> <li>Design not submitted, 1/04 date not mandatory.</li> <li>Approved; submit final design by 10/04. Complete construction 15 months from approval of design.</li> <li>On schedule.</li> <li>Warwick requested an extension until 1/1/05. Granted extension until 11/1/04.</li> </ul>

<p align="center"><b>Planned FY2004/2005 Work Plan</b></p> <ul style="list-style-type: none"> <li>• West Warwick: construction to be completed by 7/05.</li> <li>• Westerly: construction to be completed by 10/03.</li> <li>• Reduce system overflows: Complete 6 I &amp; I and SSES reports &amp; designs by 8/05.</li> </ul>	<p align="center"><b>Completed/Progress FY2004; Changes FY2005</b></p> <ul style="list-style-type: none"> <li>• Construction approximately 88% complete.</li> <li>• Accomplished.</li> <li>• Reports and designs submitted for East Greenwich, Westerly, Warren, Cranston, Bristol, and Middletown.</li> </ul>
<p><i>Combined Sewer Overflow (CSO)</i></p> <ul style="list-style-type: none"> <li>• Phase 1 CSO program constructed by 2006.</li> </ul>	<ul style="list-style-type: none"> <li>• All projects started. Some delays on Main Spine Tunnel, but now making satisfactory progress.</li> </ul>
<p><i>Water Quality Restoration Plans (aka TMDL)</i></p> <ul style="list-style-type: none"> <li>• Develop TMDL or WQRP for 40 impaired waterbodies and submit documents to EPA by 6/05. <ul style="list-style-type: none"> <li>• Sakonnet River and Island Park cove (pathogens) (2) – 12/03.</li> <li>• Kickamuit Reservoir (pathogens, nutrients/excess algae/ turbidity) (2) - 12/03.</li> <li>• Palmer River (nutrients) (1) – 6/05.</li> <li>• Ninigret and Green Hill Ponds and Teal Pond Stream, Factory Pond Stream (pathogens) (4) – 12/03.</li> <li>• Providence River (hypoxia/nutrients), Seekonk River (hypoxia/nutrients) (2) – 6/04.</li> <li>• Indian Run (metals) (1) – 6/04.</li> </ul> </li> <li>• Greenwich Bay, Buttonwoods Cove and Brushneck Cove, Warwick Cove, Greenwich Cove, Apponaug Cove, Baker Creek, Dark Entry Brook, Fosters Brook, Greenwood Creek, Maskerchugg River, Southern Creek (Carpenter Brook), Tuscatucket Brook, (pathogens) (13) – 12/03. <ul style="list-style-type: none"> <li>• Hardig Brook (pathogens) (1) 6/04.</li> </ul> </li> <li>• Greenwich Bay, Buttonwoods Cove, Brushneck Cove, Greenwich Cove, Warwick Cove, Apponaug Cove (nutrients/hypoxia) (6) – 12/04. <ul style="list-style-type: none"> <li>• Sands Pond (Block Island) (phosphorus/excess algae/taste &amp; odor/turbidity) (1) – 6/04.</li> <li>• Mashapaug Pond (hypoxia, pathogens) (2) – 6/04.</li> <li>• Woonasquatucket River (metals, pathogens) (2) – 6/05.</li> <li>• Yawgoo Pond (phosphorus/hypoxia/excess algae), Barber Pond (hypoxia), Chickasheen Brook (phosphorus/noxious aquatic Plants) (3) – 12/03.</li> </ul> </li> <li>• Submit water quality restoration bond referendum for 2004 ballot.</li> </ul>	<ul style="list-style-type: none"> <li>• Many delays due to staffing shortfalls and shifting priorities.</li> <li>• Submitted final TMDL to EPA in 11/03; awaiting EPA approval.</li> <li>• Submit final TMDL to US EPA by 12/05.</li> <li>• Submit final TMDL to US EPA by 12/05.</li> <li>• Draft TMDL made available for public comment in 6/04. Submit final TMDL to EPA by 8/04.</li> <li>• Evaluated nitrogen targets &amp; WWTF load reductions 2/04. Revised date undetermined at this time.</li> <li>• Prepared preliminary draft &amp; TMDL. Submit final TMDL to USEPA by 12/05.</li> <li>• Draft TMDL made available for public comment in 2/04; finalizing TMDL. Submit final TMDL to USEPA by 12/04.</li> <li>• Draft TMDL made available for public comment in 2/04; finalizing TMDL. Submit final TMDL to USEPA by 12/04.</li> <li>• DEM working with CRMC, CRC and others to address nutrient related impairments through SAM Plan. Draft SAM Plan in review.</li> <li>• Submit final TMDL to US EPA by 12/05.</li> <li>• Submit final TMDL to US EPA by 12/05.</li> <li>• On schedule.</li> <li>• Submitted final TMDL to EPA 10/22/03; EPA approved 6/21/04.</li> <li>• Governor proposed \$20.7M Bond in 5/04. General Assembly approved a \$19M Bond for NB &amp; Watershed Restoration. Will appear as question #8 on 2004 ballot.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<i>Completion targets for TMDL implementation projects:</i>	
<ul style="list-style-type: none"> <li>• Narrow River –BMP construction for Wampum Rd/Canonicus Rd -12/04 Mettatumet Beach by 12/05.</li> <li>• Greenwich Bay- vortex unit construction by City of Warwick, White Ave./Boyle St., infiltration BMP network &amp; BMP design in E. Greenwich by 6/04.</li> <li>• Kickamuit Reservoir - storm water abatement assessment plan by 6/04.</li> <li>• Woonasquatucket River - wetland restoration at Lincoln Luce and Braid by 6/04; remove 3 vehicles from the river by 9/03.</li> <li>• Portsmouth and Island Parks - facilities plan update &amp; feasibility study by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• On schedule.</li> <li>• Two of seven units remain to be installed by 12/04. White and Boyle Ave. designs behind due to contracting problems; designs to be completed by 12/05. E. Greenwich BMP design on schedule.</li> <li>• 6/04 date was an error. Project not due until 7/05.</li> <li>• Removed vehicles 9/03.</li> <li>• Town submitted plan 10/02. DEM provided comments 3/03. Portsmouth responded to comments 12/03. Town to decide whether or not to issue a bond to sewer the area or implement intensive septic system management.</li> </ul>
<i>Non-point Source Pollution</i>	
<ul style="list-style-type: none"> <li>• Update Non-point Pollution Management Plan (NPMP) by 9/04.</li> <li>• Work with DOH to investigate sources of pollution resulting in beach closures.</li> <li>• # beach closure days</li> <li>• Finalize MS4 general permit (GP) by 12/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Update is approximately 30% complete.</li> <li>• Ongoing.</li> <li>• 97 closure days during summer 2003.</li> <li>• Finalized 12/03.</li> </ul>
<i>Stormwater</i>	
<p>Finalize and implement Phase II stormwater program.</p> <ul style="list-style-type: none"> <li>• By 3/04, 33 communities submit Phase II stormwater management plans.</li> <li>• By 3/09, 33 communities implement Phase II Stormwater management plans.</li> </ul> <p>Issue stormwater permits and guidance:</p> <ul style="list-style-type: none"> <li>• Issue multi-sector industrial General Permits by 3/04.</li> <li>• Issue 3 individual stormwater permits by 9/04.</li> <li>• Updated Rhode Island Stormwater Manual: final draft by 12/03, publish by 9/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Received 32 plans by 3/04; 1 plan not submitted.</li> <li>• Required to commence implementation by 3/04.</li> <li>• Research and development, public notice 9/04.</li> <li>• Rhode Island Airport Corporation draft issued for public comment 4/04. Two permits delayed due to staffing, other priorities.</li> <li>• Delayed due to complexity of technical issues. Drafted 9 of 11 chapters; posted 5 draft chapters on the web. Under internal review to be released as draft after review completed.</li> </ul>
<i>Septic Systems</i>	
<ul style="list-style-type: none"> <li>• Wastewater management programs adopted in 95 % of targeted communities by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• 92% (or 22 of 24) of targeted communities participating. In FY04, received 5 programs plans: approved 2; returned 3 with comments for revisions. Began 4 implementation and 2 planning projects. NPS bond obligated or expended.</li> </ul>
<i>Prevent and abate groundwater pollution</i>	
<ul style="list-style-type: none"> <li>• Update groundwater protection strategy by 1/05.</li> <li>• Prepare “State of the State’s Groundwater” 2004 305(b) report by 9/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Not begun due to competing priorities; new target date 1/06.</li> <li>• On schedule.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• Update groundwater classification and wellhead protection area maps by 3/04.</li> <li>• Complete gasoline additive plan by 1/05.</li> <li>• Review and process 50 UIC permits per year and target 25 closures.</li> <li>• Anticipate total 3,000 ISDS permits (1,400 new building, 300 variance, and balance –repairs and alterations).</li> </ul>	<ul style="list-style-type: none"> <li>• Date should be 9/04, same date as Ground Water Regulations - see Cross-Goal Strategies.</li> <li>• Position on MTBE developed FY03; will reexamine by 1/05</li> <li>• Issued 50 approvals. Completed 18 closures.</li> <li>• Received 1,121 applications for new construction, 1,221 for repairs and 313 for alterations.</li> </ul>
<p><i>Provide financial assistance for water pollution control/water quality improvement.</i></p> <ul style="list-style-type: none"> <li>• Target: Issue 15 Certificates of Approval for the Clean Water State Revolving Funds (CWSRF) annually – 8/03 and 8/04.</li> <li>• Publish annual Clean Water State Revolving Funds Project Priority List (PPL 9/03 and 8/04).</li> <li>• Announce demonstration grants to municipalities for Phase II storm water abatement and ISDS management by 12/03.</li> <li>• Award final grant from Non-governmental Water Pollution Control Facilities Fund by 10/04.</li> <li>• Award final grants from the Pawtuxet River Authority Fund to Cranston by 10/04.</li> <li>• Issue RFP by 6/04 for non- point source abatement grants with priority to projects that implement WQRPs, TMDLs.</li> <li>• Target 65 projects completed by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Issued 27 Certificates of Approval. Expect to issue fewer Certificates of Approval in FY05 due to lack of CWSRF funds.</li> <li>• Held Public Hearing for FY '04 PPL 09/03. Submitted to Secretary of State 10/03.</li> <li>• Awarded \$1.4 million to fund 29 projects</li> <li>• Awarded \$75,000 to Cottrell Homestead 1/04.</li> <li>• Delayed due to issues regarding the interpretation of whether 319 funding can be spent in Phase II areas.</li> <li>• On schedule.</li> <li>• 10 projects completed in FY 04.</li> </ul>



## Preserve and Restore the Land

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Land Preservation</i></p> <ul style="list-style-type: none"> <li>• Protect at least 3,000 acres of land per year.</li> <li>• Provide financial and technical aid for local land acquisition.</li> <li>• Increase the total acres in the Forest Legacy Program to 1,500 by 2004 and to 2,000 by 2005.</li> <li>• Update the Land Protection Plan by 6/04.</li> <li>• Seek bond authority for state &amp; local land protection and recreation by 11/04.</li> <li>• Maintain a ratio of 1:2 state and other dollars to leverage state dollars to buy/ protect land.</li> </ul>	<ul style="list-style-type: none"> <li>• Protected 1,184 total acres in FY 04: DEM- 848 acres; Agricultural Land Preservation Commission- 260; US Fish and Wildlife Service- 26; Local Land Trusts and Non-Profits- 35. FY 05 funds exhausted, need to pass bond issue 11/04.</li> <li>• Only \$3 million available to be awarded 9/04. Funds exhausted.</li> <li>• Maintain acquisitions consistent with federal funding, 1,184 acres in 2004.</li> <li>• Delayed due to competing priorities. Phase 1 complete - Inventory/mapping of priority large land parcels for future preservation. New target date 6/05.</li> <li>• Completed. Bond on 11/04 ballot.</li> <li>• Exceeded target in calendar year 2003 with a 1:3 dollar leverage.</li> </ul>
<p><i>Brownfields</i></p> <ul style="list-style-type: none"> <li>• Remediate and reuse sixty acres of contaminated land by 6/05.</li> <li>• Enter into 18 settlement agreements by 7/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Remediated 71 acres. New target: remediate 100 acres total between 7/1/03 and 6/30/05.</li> <li>• Completed 10 settlement agreements.</li> </ul>
<p><i>Economic benefits of redevelopment of Brownfields.</i></p> <ul style="list-style-type: none"> <li>• Total assessed value (\$), taxes assessed (\$), estimated number of new jobs, estimated annual income tax (\$). (EDC).</li> <li>• Number of contaminated sites identified.</li> <li>• % Of known contaminated sites fully investigated, 3 National Priority Sites, 10 Dept. of Defense sites, by 6/05.</li> <li>• % Of known contaminated sites in compliance with applicable cleanup standards.</li> </ul>	<ul style="list-style-type: none"> <li>• Total assessed value 12/95 – 6/04 = \$81 million. Taxes assessed = \$2.15 million. # Of new and retained jobs = 962. Estimated annual income tax = \$3.7 million.</li> <li>• 3,092 known sites.</li> <li>• 2,143/3,092 sites = 69% of sites investigated.</li> <li>• 1,975/3,092 = 64%</li> </ul>
<p><i>Emergency Response</i></p> <ul style="list-style-type: none"> <li>• Maintain adequate staff, vehicles, equipment and communications to provide 24/7 Emergency Response Coverage.</li> <li>• Conduct one training exercise and one drill per year.</li> <li>• Respond to environmental emergencies within three hours of notification.</li> <li>• Develop a Continuity of Operations Plan (COOP) for DEM by 6/04.</li> <li>• Implement DEM Respirator Plan by 6/04.</li> <li>• Expand All Hazard Plan to include Fisheries Closure/Opening Plan, Scientific Response Plan and GIS Response Plan by 6/04.</li> <li>• Conduct and take part in 3 Incident Command System trainings.</li> </ul>	<ul style="list-style-type: none"> <li>• DEM's Emergency Response Team (ERT) responded to 858 incidents.</li> <li>• Participated in several drills and training exercises in FY04.</li> <li>• The team responded within three hours and responded to most calls in less than one hour.</li> <li>• Complete, waiting for review by Department of Administration.</li> <li>• Completed revisions 4/04 based on legal and human resource review.</li> <li>• Drafted Fisheries Plan, undergoing peer review. Completed GIS Information and will be submitted by 08/04.</li> <li>• Completed.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>Provide annual training classes on hazardous material.</li> </ul>	<ul style="list-style-type: none"> <li>ERT conducted training classes for Fish and Wildlife staff. Office of Criminal Investigation conducted classes for 4 Municipal Police Academy sessions and awareness training in many schools</li> </ul>
<p><i>Ensure proper transportation, treatment, storage, management, minimization and disposal of solid, medical and hazardous waste.</i></p> <p><i>Permitting</i></p> <ul style="list-style-type: none"> <li>Evaluate and process approximately: <ul style="list-style-type: none"> <li>2,500 permit applications for hazardous, medical, and septage waste transporters each year.</li> <li>5 temporary hazardous waste storage and/or transfer area applications by 6/05.</li> <li>Inspect 100 solid waste facilities annually.</li> <li>Compile and analyze Solid Waste Flow report by October 15<sup>th</sup> each year.</li> <li>Issue Central Landfill permit for Phase V within 9-12 months of receipt of all needed documents.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Issued 2,846 permits for transporter vehicles for 477 companies.</li> <li>Issued permits for 3 transfer stations.</li> <li>Completed 148 inspections.</li> <li>Compiled 2002 data report in Fall 2003. Compiling 2003 report.</li> <li>Issued Phase V landfill license 7/04</li> </ul>
<p><i>Planning</i></p> <ul style="list-style-type: none"> <li>With stakeholders, RI Resource Recovery Corporation draft revised Comprehensive Statewide Solid Waste Plan by 2/04, including recycling/reduction targets.</li> </ul>	<ul style="list-style-type: none"> <li>Still awaiting draft report from RIRRC.</li> </ul>
<p><i>Closed/Abandoned Landfills</i></p> <ul style="list-style-type: none"> <li>Begin remediation at Rose Hill by 8/03.</li> <li>Begin remediation at West Kingston/URI by 4/04.</li> <li>Landfills with completed remedies and in long term monitoring 7 by 6/05, including 6 landfills that ceased receiving waste after 1992.</li> <li>Number of inactive landfills participating in the landfill closure program, 25 by 6/30/05.</li> </ul>	<ul style="list-style-type: none"> <li>Completed remedial design 8/04. Construction contract to be bid by 12/31/04.</li> <li>Completed Initial investigation; additional fieldwork required. Remedial design complete by 3/05.</li> <li>Completed 5 landfills.</li> <li>20 landfills now participating.</li> </ul>
<p><i>Underground Storage Tanks</i></p> <ul style="list-style-type: none"> <li>Complete review of applications for new installations or upgrades of USTs within 21 days of receipt (approximately 34 per year).</li> <li>Target 46 UST inspections in resource protection areas.</li> </ul>	<ul style="list-style-type: none"> <li>Completed reviews within 21 days of receipt.</li> <li>Completed 46 inspections.</li> </ul>
<p><i>Improve RCRA Program</i></p> <ul style="list-style-type: none"> <li>Adopt used oil regulations consistent with EPA RCRA regulations by 3/04.</li> <li>Develop final revisions to the generator portion of the Hazardous Waste Regulations by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>Delayed for other priorities and EPA comments. Draft accepted by EPA 6/04. Stakeholder meeting anticipated to be held 9/04.</li> <li>Complete internal draft 3/05.</li> </ul>

## Healthy Communities and Ecosystems

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p>* See also Appendix A - DEM Response Plan to the Governor's Initiative on Narragansett Bay and Watersheds</p>	
<ul style="list-style-type: none"> <li>• Develop framework and vision for Bay and watershed planning and action by 3/04.</li>   <li>• Form and strengthen partnerships to protect and restore ecosystems.</li> <li>• Work with the Governor's Narragansett Bay and Watershed Commission (GNBWC) strategic work plan for protecting the economic viability and environmental sustainability of the Bay by 3/04.</li>   <li>• Develop watershed compact with stakeholders by 12/03.</li>   <li>• With GNBWC establish one or more Strategic Assessment Teams to identify and assess conditions that can lead to problems such as large-scale fish kills and beach closures by 1/04.</li> <li>• By 2006, develop a strategic plan for restoration and protection of the Bay as fish habitat with GNBWC.</li> <li>• With GNBWC, develop a business plan for a central system that collects, stores and makes publicly available pertinent Bay and watershed data by 1/04, to be implemented no later than 1/05. See also <i>Water Quality Classification and Monitoring</i>.</li> <li>• With GNBWC, develop final report on low oxygen levels and nutrient loading in Greenwich Bay, including targets and strategy for reducing nutrient loading by 1/04.</li>   <li>• By 4/04 complete strategic plan for reduction of nutrient loading to Narragansett Bay, with GNBWC.</li> </ul>	<ul style="list-style-type: none"> <li>• Provided extensive support to legislator and Governor's initiatives for Bay and Watershed Planning. Report published March 2004. Bay planning and monitoring bills passed June 2004. Multi-state goals/vision negotiations underway. Behind schedule due to delays by other parties.</li> <li>• Ongoing.</li> <li>• Served as members of the monitoring assessment panel. Developed Bay Assessment and Response Team model, Bay Line and a MOU with Coastal Institute and URI to provide real time scientific expertise.</li> <li>• Completed reports to HUD, which supports this work. Provided information to Governor's office and legislature on possible models for Bay governance; participated in drafting GNBWC report; participated as Commission member and support to Steering Committee.</li> <li>• Now part of GNBWC recommendations. Negotiations underway with former Gov. Garrahy in charge; completed draft vision statement 7/03. Behind schedule due to delays outside DEM control.</li> <li>• Initiated Bay Assessment and Response Team (BART) and established Bay Hotline.</li>   <li>• Underway.</li>   <li>• GNBWC recommendation, responsibilities not yet defined. Provided data to the NARRBAY.ORG central bay data website at Coastal Institute; collecting and providing dissolved oxygen data to DEM and other organizations. Behind schedule due to delays outside DEM control.</li> <li>• Nutrients and Bacteria panel made recommendations to Governor; bond issue for nutrient reduction on ballot November 2004. Participated on GNBWC nutrients panel; conducting 2004 dissolved oxygen surveys (started 1999); developing nutrients white paper to be part of Narragansett Bay Status and Trends report for publication 5/05.</li> <li>• GNBWC recommendation, responsibilities not yet defined.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• State of the Bay Report by 9/04.</li>   <li>• Bay Journal 4 times per year.</li>   <li>• Maintain Narragansett Bay Estuary Program (NBEP) website.</li> <li>• Complete Southern RI Coastal Habitat inventory by 12/04.</li> <li>• Publish Coastal Wetland Trend Analysis by 12/03.</li>   <li>• Publish Narragansett Bay Coastal Wetland Restoration Analysis by 12/03.</li>   <li>• By 3/04, with GNBWC, develop strategic plan and interagency agreement for a Bay and watershed-wide water quality monitoring program.</li>   <li>• Take part in North Atlantic Regional Monitoring Committee.</li> <li>• Implement Bay Window monitoring for 03/04 pending federal funding.</li>   <li>• Conduct dissolved oxygen studies by 10/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Collected dissolved oxygen data and conducted wetland loss trend analysis. State of the Bay report due 5/05, Habitat and Nutrients element completed by 9/05, publication of Narragansett Bay Journal Status &amp; Trends insert by 6/05. Behind schedule due to resource constraints and changed priorities.</li> <li>• Published Summer 2003, Fall 2003, Winter 2003 and Spring 2004. Continue with same schedule; seek outside funding for special inserts.</li> <li>• Revisions to site in process and ongoing.</li>   <li>• Completed color aerials; mapped and digitized habitat types; will produce hard copy and CD-based final product.</li> <li>• Purchased and analyzed aerial photos back to 1930s; areas mapped and digitized. Complete final CD product by 9/05.</li> <li>• Completed analysis and maps; completed report; CD product currently in production. Initial distribution at Restore America's Estuaries national habitat conference 9/04. Behind schedule due to schedule of key contractor.</li> <li>• Recommendation in report; 2004 RI legislature bill creates monitoring collaborative; Assisting with development of marine monitoring component of Statewide Monitoring Strategy (SMS), NBEP funded initial DEM consultation with national monitoring expert. Continue to participate in Monitoring Collaborative and in development and implementation of marine component. Behind schedule due to delays in developing Statewide Monitoring Strategy and law establishing Monitoring Collaborative.</li> <li>• Attended EPA sponsored monitoring/indicators conference 1/04; ongoing.</li> <li>• Secured 3rd year funding for Bay Window; purchased monitoring equipment through Bay Window; conducted dissolved oxygen surveys; served on Bay Window Steering Committee.</li> <li>• Completed 2003 survey series (7/04, 8/04, 9/04); worked with Brown University on data analysis. Continuing limited DO surveys, as resources allow.</li> </ul>
<p><i>Population assessments for the Bay:</i></p> <ul style="list-style-type: none"> <li>• Develop an Invasive Species Plan by 12/04.</li>   <li>• Complete Rapid Assessment Survey (RAS) for Narragansett Bay and coastal waters by 8/03.</li>   <li>• Develop invasive species elements of Bay Plan by 12/03.</li> </ul>	<ul style="list-style-type: none"> <li>• CRMC received federal grant to complete marine aquatic invasive nuisance species management plan; continue support to CRMC-led effort.</li> <li>• Follow up to 2000 survey on more limited spatial and temporal basis completed 8/03; several new organisms identified not found in 2000. None planned in 2005.</li> <li>• Assisting CRMC in development (see above). CRMC Invasive Species Plan will be included in Bay plan.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Habitat Restoration</i></p> <ul style="list-style-type: none"> <li>• Complete Boyd’s Marsh/Town Pond salt marsh restoration pending funding of \$200,000 to match the \$500,000 that has been raised.</li> <li>• Complete Phase 1 (20 acres) of Lonsdale Drive-in freshwater wetland restoration 9/03.</li> <li>• Blackstone River – ACOE has been asked to develop engineering plans; construction will depend on funding.</li> <li>• Allin’s Cove, Pawtuxet River fish run and Woonasquatucket fish passage, dependent on funding</li> <li>• Conduct &amp; publish statewide stream and pond fisheries surveys organized by watershed by 10/047 (date was error).</li> <li>• Model Aquatic Weed Control Plan completed by 6/05.</li> <li>• Publish RI’s Living Legacy by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Secured all state/non-federal matching funds except \$88,000; construction should start late summer pending grant award by CRMC for remaining state/non-federal match.</li> <li>• Completed 9/03.</li> <li>• Worked with Federal Energy Regulatory Commission license holders to determine financial responsibility (ongoing); will be subject of ACOE Section 206 study (small projects category) Fall 2004. Support/liaison to Section 206 study.</li> <li>• Seeking to direct funds to all three projects.</li> <li>• Allin's Cove: completed design. Will begin construction Spring 05 if funding available.</li> <li>• Pawtuxet River fish run: secured partial funding; completed QA/QC plan 3/04; started design phase, to be completed 12/04. Will begin construction Spring 05 if funding available.</li> <li>• Woonasquatucket: Conducted site assessments with ACOE for dam removal. Continue work to secure funding for full assessment and design.</li> <li>• Identified 71 species of fish by conducting fish surveys in 360 locations throughout the state. A preliminary draft report is nearly finished.</li> <li>• Developed preliminary Scope of Work 12/03. New target date: 9/05.</li> <li>• Project changed direction. Now Comprehensive Wildlife Management Plan to be completed by 9/05.</li> </ul>
<p><i>Wetland Resources</i></p> <ul style="list-style-type: none"> <li>• Review and process freshwater wetland applications, about 500-600 annually.</li> <li>• Complete background research for statewide wetland conservation plan by 6/05.</li> <li>• Participate on action team and implement Woonasquatucket wetland restoration project.</li> <li>• Develop an outreach strategy for implementation of wetland rules by 6/04.</li> <li>• Publish wetland BMP manual by 12/05.</li> <li>• Conduct open house for applicants or provide a booth at the Home Show by 5/04.</li> <li>• Publish updated permit guide, “What’s the Scoop on Wetlands” by 12/04.</li> <li>• Publish biennial Wetlands Status and Trends report for 2002 and 2003 by 4/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Received 726 applications for preliminary determinations. Made 419 final decisions.</li> <li>• No action during reporting period.</li> <li>• Made three presentations; attended 2 town meetings; published article in the Narragansett Bay Journal; created tables of restoration sites for towns.</li> <li>• Pending final Phase 2-rule approach. New target date 12/04.</li> <li>• Completed 2nd draft with technical team and incorporating text comments. Behind schedule due to lack of in house graphic design support. Will go to bid for graphic services. Publish by 12/05 pending funds, bidding process and graphic consult.</li> <li>• Developed &amp; staffed booth at RI Home Show 3/04.</li> <li>• Pending final Phase 2 rules. Reprinted existing guide 9/03. Revised date 4/05.</li> <li>• Researched and wrote first draft 4/04. Second draft to EPA 8/04. Revised date for final draft 10/04.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Water Use</i></p> <ul style="list-style-type: none"> <li>• Stakeholders develop state water allocation recommendations by 12/03.</li> <li>• Complete pilot Queens River Basin study of impacts of water use and withdrawal by 6/04.</li> <li>• Develop policy for re-use of treated wastewater by 12/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Stakeholders developed recommendations 1/29/04. Water Resources Board adopted allocation recommendations 3/04 and 4/04.</li> <li>• Published Queen-Usquepaug HSPF Model report in Spring 03.</li> <li>• Participated in WRB Panel. Behind schedule. Staff reassigned.</li> </ul>
<p><i>Improve marine fisheries data gathering and dissemination with partners.</i></p> <ul style="list-style-type: none"> <li>• By 1/04 develop a formalized Cooperative Fisheries Research Program with state agencies, fishing industry and academic institutions.</li> <li>• Continue to participate and provide research support to the New England Marine Fisheries Council and Atlantic States Marine Fisheries Commission, adopting regulatory changes as needed.</li> <li>• Conduct port and sea sampling and water quality studies.</li> <li>• Continue marine recreational fishing survey (MRFSS) to characterize the catch and value of the marine recreational fishery in RI.</li> </ul>	<ul style="list-style-type: none"> <li>• Draft MOU produced in 5/04; review meeting held 6/04. New target date of 9/05. Behind schedule due to staff changes.</li> <li>• Required regulations adopted 4/04 and 8/04.</li> <li>• Conducted monthly port sampling. Sea sampling done for lobsters only. Add sea sampler to contractual staff by 9/04 pending grant.</li> <li>• Contractor conducts access-intercept sampling bi-monthly. Funding problems likely in future.</li> </ul>
<p><i>Collect samples in Narragansett Bay:</i></p> <ul style="list-style-type: none"> <li>• 12 trawl stations monthly for trawl surveys, shellfish surveys and lobster.</li> <li>• Fishery monitoring and 26 stations bi-annually.</li> <li>• 18 shore seine stations for pelagic game fish monthly.</li> <li>• Ichthyoplankton monthly.</li> <li>• Shellfish samples from 60 sites.</li> <li>• Continue gillnet monitoring of pelagic game fish in coastal waters.</li> <li>• Sample juvenile populations in 4 coastal ponds monthly.</li> <li>• Conduct surveys aboard commercial lobster boats on 40 trips to obtain population data.</li> <li>• Collect weekly RI commercial landings data for 11 species.</li> <li>• Expand winter flounder research in coastal ponds.</li> <li>• Begin survey of Block Island fisheries – monthly, multi-gear sampling.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted monthly trawl survey of Narragansett Bay. Transition trawl survey to new RV Chaffee, acquired in 4/04.</li> <li>• Spring cruise 2004 incomplete because of acquisition of new RV. Fall cruise to take place. Transition trawl survey to new RV.</li> <li>• Conducted beach seine surveys monthly from June to October.</li> <li>• Collected monthly.</li> <li>• Conducted shellfish dredge survey Summer 2003.</li> <li>• Acquisition and improvised rigging of new gillnet survey boat delayed start of 2004 survey. Upgrade new vessel gear after conclusion of 2004 survey.</li> <li>• Completed.</li> <li>• Conducted in-shore and offshore sampling trips, in-shore day trips twice per month and offshore-extended trips 4 times per year.</li> <li>• RI dealers submit reports every 3-4 days via Interactive Voice Response telephone call in system. Complete transition to web-based computer dealer reports (RIFIS).</li> <li>• Staff limitations curtailed tagging in winter 2004. Staff limitations will continue.</li> <li>• Conducted first sampling trip 06/04. Effort will be staff-limited.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• Expand the seafood dealer electronic reporting system initiated in 1/03 to include the top 10 seafood dealers in Rhode Island by 5/04.</li> <li>• Strengthen and restructure citizen advisory panels to the Marine Fisheries Council.</li> <li>• Update commercial species management plans.</li> <li>• Inter-jurisdictional management plans for horseshoe crab and eel.</li> <li>• Evaluate results of investigation (with URI) of causes for decline of local winter flounder stocks and seek additional funds to continue research on causes identified by URI initial research by 8/03.</li> <li>• Work with congressional delegation to acquire funding for FY05 for the Bay Window Project.</li> <li>• Seek legislative reform and develop lobster management program with Atlantic States Marine Fisheries Council.</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of RIFIS (state) and SAFIS (federal) finfish dealer reporting systems is proceeding. Top ten online by end of FY04. All finfish dealers will be online by end of FY05. Shellfish and lobster dealers will be added to RIFIS system in FY 05.</li> <li>• Added commercial fishermen's sub-committee and Enforcement advisory panel. Both held initiation meetings 6/04.</li> <li>• Promulgated regulations 11/03. Update on licensing regulations in 2/04.</li> <li>• Submitted compliance reports to ASMFC 9/03 and 4/04.</li> <li>• Received URI report 7/02. DEM examining link between winter founder decline and hypoxia in Bay. No additional funding available to continue research on life stages of Winter Flounder. Continue if funding received.</li> <li>• Funds appropriated federal FY 04 for Narragansett Bay studies, available 9/04. Continuing to pursue funding for 05.</li> <li>• Adopted addendum IV to ASMFC lobster fishery management plan 10/03. States implementing in 2004. No legislative action needed.</li> </ul>
<p><i>Port improvements &amp; renovations – Port of Galilee</i></p> <ul style="list-style-type: none"> <li>• Install new bulkhead in the northwest corner.</li> <li>• Rebuild State Pier E by 10/04.</li> <li>• <b>NEW</b> Replace decking at State Pier 4 in Jerusalem.</li> </ul>	<ul style="list-style-type: none"> <li>• To be completed by 12/04. Delayed due to purchase requisition delay and contractor delay.</li> <li>• Completed 10/03.</li> <li>• Completed 6/04 with funding assistance from Small Craft Access Trust (SCAT) and Town of Narragansett (\$5000 from each).</li> </ul>
<p><i>Restore anadromous fish populations</i></p> <ul style="list-style-type: none"> <li>• Stock 500,000 Atlantic salmon fry &amp; 15,000 smelts annually.</li> <li>• Monitor spring returns at selected streams.</li> </ul>	<ul style="list-style-type: none"> <li>• Stocked Fry and Smelts in Wood/Pawcatuck Watershed 5/04.</li> <li>• Conducted monitoring April through June. Continue through Fall 2004. Complete analysis Winter 2004.</li> </ul>
<p><i>Sustainable Fisheries</i></p> <ul style="list-style-type: none"> <li>• New England ground fishery</li> <li>• Negotiate methods to reduce fishing mortality and develop Amendment 13 to the New England Fishery Management Council's ground fish management plan to rebuild ground fish stocks by 5/04.</li> <li>• Develop a strategy for the use of \$1.5 million NOAA grant for relief of ground fishers based on governor's decision and survey results.</li> <li>• Ensure sustainability of fisheries; white paper on summer flounder allocation system is under review by RI Marine Fisheries Council; DEM will determine allocation by 10/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Amendment 13 approved but without "B day" provisions developed by industry. Framework adjustments underway to address industry concerns.</li> <li>• NOAA grant amendment submitted 4/04 to support direct pay out to industry of relief funds. Pay out expected in summer 2004. Review administrative costs. Conduct supplemental pay out if funds remain.</li> <li>• White paper provided to RI Marine Fisheries Council. Regulatory action by Council and DEM Director in April 2004 to allocate quota increase to Summer I period. Review performance of Summer 2004 fishery. Advise industry and Council September 2004 on 2005 specifications.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Provide grants, technical assistance, and marketing assistance to promote stewardship of Rhode Island's forests and agricultural lands and businesses.</i></p> <ul style="list-style-type: none"> <li>• Assist 250 forestland owners by 6/04 and another 250 by 6/05.</li> <li>• Award Farm viability funds to 4 farmers' market by 7/04.</li> <li>• Promote farm products in major supermarkets through Harvest New England by 9/04.</li> <li>• <b>NEW</b> - work to promote local farm products through farmers' markets and other outlets.</li> <li>• Evaluate feasibility of video advertising for farm products by 12/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Assisted over 250 landowners</li> <li>• Awarded \$25,000 to RI Farmers' Market Association for markets.</li> <li>• HNE has contracts with major supermarket chains to promote NE products.</li> <li>• Helped Rhode Island Dairy Cooperative to begin marketing Rhody Fresh Milk in 7/04. Develop local beef and cheese products and marketing strategies.</li> <li>• Completed evaluation; video advertising too expensive.</li> </ul>
<p><i>Promote alternative forest uses:</i></p> <ul style="list-style-type: none"> <li>• Number of landowners that produce alternative forest-based products.</li> <li>• Assist 40 alternative forest businesses in FY04 and 40 in FY05.</li> <li>• Award 10 Alternative Forest Products grants in FY04 and 10 in FY05.</li> <li>• Number of workshops/attendees.</li> </ul>	<ul style="list-style-type: none"> <li>• 28 landowners started businesses in FY 04. Work with Rural Land Coalition to promote the concept.</li> <li>• Assisted 28 forest landowners. Develop a "success stories" publication to promote.</li> <li>• Held three grant rounds. 29 grants awarded in FY 04; grant ended, no further action planned</li> <li>• Held workshop for growing mushrooms on 1//04 that was attended by 65 people.</li> </ul>
<p><i>Update Rhode Island Forest Resource Plan.</i></p> <ul style="list-style-type: none"> <li>• Work with stakeholders to identify issues.</li> <li>• Solicit public input.</li> <li>• Develop a revised plan.</li> <li>• Increase the number of "Tree Cities" in RI from 9 to 11 by 2005.</li> <li>• Add 9 new topics to website by 7/04 to enhance farm/school connections.</li> <li>• Evaluate impact of best management practices on water quality at 4 farms in FYs 04 and 05.</li> <li>• Implement provisions of RI "Drought Management Plan" in 04 and 05 (weather dependent).</li> <li>• Evaluate emergency ponds constructed during drought of 02; conduct on-site assessments in FYs 04 and 05.</li> </ul>	<ul style="list-style-type: none"> <li>• Advisory committee appointed, four committee meetings held.</li> <li>• Held five focus groups and completed landowner survey 1/04.</li> <li>• Completed draft 7/04. Sent to Statewide Planning for comment. Final expected to be completed by 6/05.</li> <li>• 10 Tree Cities to date.</li> <li>• Changed- Provided support and coordination for Rhode Island center for Agricultural Promotion (RICAPE) to enhance farm/school connections. Topics to be presented on new RICAPE website by 9/04.</li> <li>• With USDA, continuing to monitor BMPs.</li> <li>• Drought Management Plan not enacted in 04 due to adequate rainfall. Continue to implement provisions of the plan regarding BMPs, farm ponds, etc.</li> <li>• Conducted assessments for all ponds constructed with emergency permits in 2002.</li> </ul>
<p><i>Develop and expand community farming with partners:</i></p> <ul style="list-style-type: none"> <li>• Assist Hmong community farm at Curran State Park and fund construction of permanent well by 10/04.</li> <li>• Oversee management of Urban Edge Farm by the Southside Community Land Trust. Explore other opportunities for acquisition of farmland for community, non-profit uses.</li> </ul>	<ul style="list-style-type: none"> <li>• Installed well 6/04. Irrigation system to be installed when approved by state purchasing.</li> <li>• Ongoing and active process. Farms accomplished goal to provide farming opportunities and training to urban and ethnic farmers.</li> </ul>



<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>Assist RI Community Farms and other community farms to grow food for the RI Community Food Bank at several farm locations in RI.</li> </ul>	<ul style="list-style-type: none"> <li>4 active community farms in RI.</li> </ul>
<p><i>Develop comprehensive dam safety strategy:</i></p> <ul style="list-style-type: none"> <li>Issue final regulations for dam repairs, including requirements for inspections by 9/03.</li> <li>Implement revised regulations by 7/04.</li> <li>Develop registration process by 9/04.</li> <li>Re-inspect all high hazard dams by 7/04.</li> </ul>	<ul style="list-style-type: none"> <li>Prepared draft regulations for internal review 10/03; further revisions required. Issue final regulations by 6/05. Behind due to staffing and other priorities.</li> <li>See above. Implement regulations by 9/05.</li> <li>See above. Develop registration process by 11/05.</li> <li>No high hazard dams have been inspected; other inspections have taken priority. Complete inspections by 11/04.</li> </ul>
<p><i>Coordinate training and equipment supply with local fire departments to prevent and fight forest fires.</i></p> <ul style="list-style-type: none"> <li>No lives or homes lost to forest fires.</li> <li>Average forest fire kept to less than 2 acres.</li> </ul>	<ul style="list-style-type: none"> <li>No homes lost in FY2004.</li> <li>Average fire size was 1.35 acres.</li> </ul>
<p><i>Mercury</i></p> <ul style="list-style-type: none"> <li>Implement Mercury Education and Reduction Task Force Strategies to develop targets.</li> <li>Conduct annual inspections to ensure that RI Hospital incinerator is operated only as a pathological waste incinerator.</li> <li>Add mercury to air pollution Regulation number 22 and prioritize mercury sources for air toxics monitoring permits review by 9/03.</li> <li>Number of companies reporting to Interstate Mercury Reduction and Education Clearinghouse (IMERC).</li> <li>Participate on RI Mercury Reduction Commission to study mercury and the Interstate Mercury Reduction and Education Clearinghouse (IMERC).</li> <li>Mercury product notification required by legislation/regulations.</li> <li>Implement thermometer and elemental mercury take-back program (contingent on funding).</li> <li>Implement procurement provisions of mercury law in Department of Administration practices.</li> <li>Coordinate with Water Resources in formulation of RI Mercury TMDL.</li> <li>Brown University Environmental literacy project-fish ingestion project.</li> </ul>	<ul style="list-style-type: none"> <li>State Mercury Education and Reduction Group (MERG) meets every six weeks. Strategy implementation dependent on commission's findings.</li> <li>Inspector left DEM and not replaced. Last inspection conducted 10/01.</li> <li>Air toxics regulation amended 4/04. Prioritize mercury sources by 9/04.</li> <li>500 companies have participated in IMERC activities to assure compliance with RI regulations.</li> <li>Draft report on findings due 9/05, final due 1/05. Commission members selected by Governor and began meeting in 5/04. Three meetings have been held.</li> <li>Promulgated regulations 5/04. Delayed due to changes in the law.</li> <li>1 collection at 2 sites in 11/03, 3 collections in spring 2004, at multiple sites.</li> <li>Incorporated requirement for low or non-mercury items into state contracts for commercial and industrial supplies, HVAC &amp; plumbing, vehicles and lighting.</li> <li>Provided summary of Mercury TMDL reduction-related activities, 7/04.</li> <li>Project underway in FY 04. Plan to be completed 12/04. Delayed due to funding delay.</li> </ul>
<p><i>Animal and Insect-borne Diseases</i></p> <ul style="list-style-type: none"> <li>Continue surveillance and response programs for animal and insect-borne diseases.</li> <li>Conduct rabies, Lyme disease, West Nile virus, and Eastern Equine Encephalitis surveillance and response programs (ongoing).</li> <li>Reduce deer population on Prudence Island by 275 animals by 1/04.</li> </ul>	<ul style="list-style-type: none"> <li>Tested 1,800 animals at numerous locations statewide for TB, John's disease, brucellosis, and rabies.</li> <li>Sampled 20,000 pools of mosquitoes for West Nile Virus and tested 75 birds for EEE.</li> <li>Reduced herd by 322 deer, (18 during special season for paraplegics 10/04, 304 by archery hunters, 10/04-1/05). Increase quota to 350.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• Evaluate municipal larvicide program by 7/04.</li> <li>• Establish committee on animal diseases and food safety by 7/03.</li> <li>• Complete research with URI on offsite impacts of larvicides for WNV by 12/05.</li> <li>• Number of human vector-borne diseases in Rhode Island.</li> <li>• Promulgate animal care regulations by 9/03.</li> <li>• Develop and implement Dairy Quality Assurance Program, by 9/03.</li> <li>• Revise procedures for Disaster Animal Response Team by 12/03.</li> <li>• Develop management plan for atrazine by 6/05.</li> <li>• Inspect 70 farms and commercial pest control companies and 74 markets, producers, applicators, and dealers per year.</li> <li>• Continue monitoring wells and farm ponds at 43 sites near selected farms. Addition of new sites delayed due to lack of funding.</li> <li>• Train approximately 300 pesticide applicators for licensing and certification annually.</li> <li>• Develop training for health care providers by 6/05.</li> <li>• Continue to monitor agricultural establishments for compliance with the Worker Safety Standard.</li> <li>• E-commerce – monitor internet sales of pesticides to ensure compliance with federal and state pesticide regulations.</li> </ul>	<ul style="list-style-type: none"> <li>• Distributed 4,000 lbs. of altocid to municipalities. Program dropped due to budget.</li> <li>• Established Johnes Disease Steering Committee 6/04; Bovine Spongiform Encephalopathy (BES) Disease work group established 6/04; active Scrapie's Diseases work group continues.</li> <li>• Conducted lab and field studies of efficacy of larvicide and effect on the environment.</li> <li>• Three tick-borne (Lyme disease, ehrlichiosis, babesiosis) and 3 mosquito-borne diseases (West Nile virus, Eastern Equine Encephalitis, Jamestown virus) identified.</li> <li>• Held four stakeholder meetings; developed draft regulations; revised regulations twice. Final draft to be completed 9/04.</li> <li>• Johnes cooperative agreement in place.</li> <li>• Submitted draft to Emergency Management Agency 1/04.</li> <li>• Monitoring in progress.</li> <li>• Conducted 82 inspections at establishments statewide.</li> <li>• Completed BMPs at 3 farms. Conducted extensive monitoring for nitrate and pesticides in groundwater in proximity to selected farm fields.</li> <li>• Held several training sessions throughout the state throughout year.</li> <li>• Deleted task. No funding.</li> <li>• Completed 5 site inspections.</li> <li>• Reviewed several internet sites periodically for compliance with RIGL for sales to Rhode Island residents.</li> </ul>
<p><i>Recreation</i></p> <ul style="list-style-type: none"> <li>• Develop 5-year work plan to implement high priority recommendations of the SCORP by 1/04.</li> <li>• Develop report on parcels and total area protected by watershed by 6/04.</li> <li>• Continue to require consideration of sustainable building practices for all new and renovated DEM buildings.</li> <li>• Under revised state recreation grant process, award points for green building designs and provide funding for incremental costs of such designs.</li> <li>• Award grants with focus on low-income minority, urban facilities for Bikeways, Greenways, Snake Den State Park and Universal access points.</li> <li>• Complete the Blackstone Bike Path by 2006 and the Trestle Trail by 2007.</li> <li>• Repair the state-owned causeway to the breakwater in Salters Grove by 12/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Developed database to track DEM responsibilities. Project on hold indefinitely due to staffing.</li> <li>• Delayed. Staff reassigned.</li> <li>• All designs reflect green architecture as much as possible within building function.</li> <li>• No points awarded during application process. Will offer as communities enter design stage.</li> <li>• Grant application reflects this in project scoring.</li> <li>• On schedule. Completed Ashton Segment of Blackstone Bike Path.</li> <li>• Underway with consultant, report due 9/04.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• Complete design for universal access projects including Black Point Trail by end of FY 2004.</li> <li>• Award grants of \$2.5 million to municipalities, including Distressed Community grants for park construction and renovation by November 2003.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed widening of Black Point trail to the water to meet ADA standards 11/03. Cut an extended trail within the property and completed plan to connect trail to new parking area.</li> <li>• Awarded \$4.5 million in 4/04 in FY 04, including \$275,000 to 5 communities (Central Falls, Pawtucket, W. Warwick, Providence, and Woonsocket).</li> </ul>
<p><i>Snake Den State Park:</i></p> <ul style="list-style-type: none"> <li>• Complete conceptual design for development of Snake Den Snake Park, Johnston in cooperation with local, state, federal and private stakeholders by 12/03.</li> <li>• Develop program for phased construction of Snake Den State Park with cost estimates and market and feasibility reports by 12/03 for inclusion in Governor's Capital Improvement Program.</li> <li>• Complete Snake Den Park by 6/06.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed conceptual design 4/04. Working with Johnston, consultant, DOT, and Water Park Vendor. Plans and specs for designing the intersection are in progress.</li> <li>• Completed reports. Included in Capital Improvement Program. Also part of Bond referendum in 11/04.</li> <li>• Dependant on bond passage in 11/04.</li> </ul>
<p><i>Public access improvements:</i></p> <ul style="list-style-type: none"> <li>• By 2006, develop a strategic plan for recreational boating infrastructure.</li> <li>• Complete Fort Adams dock, Gaspee boat ramp and Coventry fishing access by 6/05.</li> <li>• Complete Gano Street and Olney Pond boat ramps by 6/06.</li> <li>• Complete construction of handicap access at Carolina Trout Pond and Stillwater Reservoir by 6/06.</li> <li>• Develop interactive web-based system to help Rhode Islanders locate public recreation facilities. Apply for grant from National Park Service by 12/03.</li> <li>• Work with elected officials to secure full funding for priority needs; explore and develop where possible innovative funding sources to improve facilities, routine maintenance procedures, and capital reinvestment by implementing asset management plans.</li> <li>• Number of improved facilities in 5, 10, 15 years.</li> </ul>	<ul style="list-style-type: none"> <li>• Changed priority from boating to fishing access. RFP issued to develop plan to improve infrastructure.</li> <li>• Fort Adams in court because of neighbor objections. Gaspee to be completed 12/04.</li> <li>• On schedule.</li> <li>• Carolina cancelled due to project priorities and funding shift to Lafayette Hatchery. Dam construction underway at Stillwater.</li> <li>• Sent proposal to National Park Service, awaiting approval. Project expected to start 9/04. Delayed due to change in state purchasing system.</li> <li>• Capital budget projects progressing. Identified needs still lack funding. Retirements in critical positions hampering progress.</li> <li>• Improved facilities FY04 – 4: 2 horse barns at Lincoln Woods, Lincoln and Goddard Park, Warwick; Ashton Segment of BV Bike Path, Lincoln; Lonsdale Drive-In, Lincoln/Cumberland; Black Point Trail, Narragansett.</li> </ul>
<p><i>Increase participation in special events at state recreation facilities.</i></p> <ul style="list-style-type: none"> <li>• Schedule 6 – 10 events per year including Bay Day, the Jazz and Folk Festivals at Fort Adams, Earth Day, road races, charitable events, and the New England Championship Regatta.</li> <li>• Hold the Blackstone Challenge in September of 2003 and 2004.</li> <li>• Help Blackstone River Coalition to expand "ZAP the Blackstone" activities held annually.</li> </ul>	<ul style="list-style-type: none"> <li>• Governor's Bay Day 7/03, Black Ships Festival 7/03, Folk Festival 8/03, Jazz Festival 8/03, Greenway Challenge 9/03, RI Spring Flower and Garden Show 2/04, and numerous other events such as Earth Week and Earth Day Festival 4/04.</li> <li>• Event held 9/03. Challenge for 2004 to be held 9/25/04.</li> <li>• Friends of the Blackstone River continue to organize cleanups, canoe rentals, etc.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Hatcheries</i></p> <ul style="list-style-type: none"> <li>• Upgrade hatchery facilities to stock fish in public waters.</li> <li>• Construct hatch house at Lafayette Hatchery 6/06.</li> <li>• Install new supply well at Lafayette by 6/05.</li> <li>• Increase freshwater fishing opportunities for trout and large mouth bass through acquisition of access areas.</li> <li>• 10% annual increase in hatchery production.</li> </ul>	<ul style="list-style-type: none"> <li>• Work to begin July 2004. Increase egg/fry production.</li> <li>• On schedule. Completed construction for well houses.</li> <li>• No acquisitions in FY 2004.</li> <li>• 8% increase in FY04.</li> </ul>
<p><i>Management/Park Areas</i></p> <p><i>User conflicts –</i></p> <ul style="list-style-type: none"> <li>• Maintain monthly meetings with the RI Trails Advisory Committee as a forum to resolve disputes.</li> <li>• Develop a comprehensive trail use policy by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Meetings continue once per month.</li> <li>• No formal policy planned. Trails committee meets monthly to review/refine trail policies and infrastructure issues.</li> </ul>
<ul style="list-style-type: none"> <li>• Install 10 new information kiosks at wildlife management area trailheads and fishing access areas. Summer 2003.</li> <li>• Issue special use permits.</li> </ul>	<ul style="list-style-type: none"> <li>• Constructed and installed 13 information kiosks. Continue to evaluate new sites and repair/replace existing when needed.</li> <li>• Issued permits as needed. Hosted many company outings, group picnics, car shows, etc.</li> </ul>
<p><i>Wildlife Management</i></p> <ul style="list-style-type: none"> <li>• Assist municipalities and individual property owners with individual management plans for white-tailed deer.</li> <li>• Rewrite hunting regulations and abstract to clarify hunter safety messages and landowner rights by 8/03.</li> <li>• Complete draft long-term Comprehensive Wildlife Management Plan by 9/05.</li> <li>• Link plan with South County Green space Plan and other plans by Spring 2004. Is this right? The other document says 04 on page 38.</li> <li>• Develop a plan to conduct population assessments on all hunted and non-game wildlife species by 6/05, pending funding.</li> <li>• Continue ruffed grouse and wild turkey research.</li> <li>• Continue annual population surveys with USFWS on migratory and native waterfowl species, American woodcock and mourning dove.</li> <li>• Conduct regional Chronic Wasting Disease surveillance in cooperation with CT and MA.</li> <li>• Collect and analyze information to set hunting limits and seasons.</li> </ul>	<ul style="list-style-type: none"> <li>• Met with RI Audubon Society 10/03, TNC 5/04, Jamestown town council, conservation commission &amp; land trust 2/04-6/04 on deer management issues. Will continue to assist municipalities and property owners.</li> <li>• Annual regulations updated 8/03. Emergency amendments completed 11/03. In FY05, include safety language for crossbows &amp; mechanical broadheads.</li> <li>• Created inventory of species and habitats of greatest conservation need for review by stakeholders in FY04. Will finalize list and begin developing conservation actions and list of priorities.</li> <li>• Pending final plan above.</li> <li>• Priorities developed above will dictate which assessment projects will benefit the most critical species and habitats. Also depends on federal funds and 50/50-state match.</li> <li>• Both projects ongoing and on schedule.</li> <li>• Completed on schedule.</li> <li>• Collected samples; all tests were negative.</li> <li>• Collected and analyzed hunting season data on 2,247 deer and 1,093 non-seasonal (deer damage permits, illegal kills, starvation, etc.) kills, throughout the year.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• Develop a long-term beaver management plan by 9/04.</li> <li>• Monitor harvests of small game, waterfowl, deer and turkey.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted survey of active colonies within the Pawtuxet watershed 10/03-1/04. Complete survey by 4/05. Behind schedule due to staffing/other priorities.</li> <li>• Ongoing</li> </ul>
<p><i>Species of Concern</i></p> <ul style="list-style-type: none"> <li>• Continue to monitor all nesting sites of Piping Plover.</li> <li>• Restore (cut brush) 10 acres/year of habitat for American Burying Beetle.</li> <li>• Survey 65 colony nesting bird sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing partnership with US Fish and Wildlife Service and The Nature Conservancy.</li> <li>• Finished 9/03.</li> <li>• Visited all colony sites 5-6/04.</li> </ul>

## Compliance Assistance and Enforcement

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Continue to Improve Enforcement</i></p> <ul style="list-style-type: none"> <li>• Amend Assessment of Administrative Penalty regulation to ensure that fines are appropriate by 10/03.</li> <li>• With the Attorney General's Office, clarify criminal enforcement provision in the Air Pollution statute to submit for the 2004 legislative session.</li> <li>• Complete enforcement response policy by 7/04.</li> <li>• Prepare and submit revisions to the RCRA enforcement policy to EPA 12/03.</li> <li>• Issue immediate compliance orders to stop significant environmental harm or threat to public health, safety, or welfare at the site if possible, or by letter sent no later than 20 days after inspection.</li> </ul>	<ul style="list-style-type: none"> <li>• Awaiting passage of Wetlands penalties increases by General Assembly during 2004 session. Completion date 1/05.</li> <li>• Attorney General has de-emphasized criminalizing environmental issues. Will re-visit the topic at a later date.</li> <li>• On hold due to resource issues.</li> <li>• Internal evaluation of EPA's new policy received 8/04. Evaluate revised EPA RCRA enforcement policy for adoption by 11/04. Delayed due to delays at EPA.</li> <li>• Ongoing.</li> </ul>
<p><i>Issue formal enforcement actions:</i></p> <ul style="list-style-type: none"> <li>• Within 180 days of determination of significant non-compliance, pending staff availability.</li> <li>• Actions of a high priority in 90 days.</li> <li>• Clean Air Act, Clean Water Act or Resource Conservation and Recovery Act violations within 180 days of determination of significant noncompliance.</li> <li>• All others within 365 days.</li> <li>• Review complaints for possible criminal violations and work with Attorney General's office on prosecution as appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>• There is an average of 264 days for all programs to issue formal enforcement actions due to staffing as well as the complexity of legal issues involved.</li> <li>• No tracking system in place but generally on target.</li> <li>• CAA - 279 days, CWA - 213 days, and RCRA - 226 days.</li> <li>• Generally on schedule.</li> <li>• Reviewed 3,737 complaints. Initiated 37 new criminal investigations. 16 cases were resolved resulting in \$344,250 imposed penalties.</li> </ul>
<p><i>Consistent High Quality Inspections</i></p> <ul style="list-style-type: none"> <li>• Develop criteria for consistent inspection outcomes by 7/04.</li> <li>• Agree to Protocols for program review by 12/03.</li> <li>• Complete review by 9/04.</li> <li>• Begin training multi-media inspectors by 7/04.</li> <li>• Document and investigate all allegations of non-compliance.</li> <li>• Post enforcement actions issued/settled and on web page monthly.</li> <li>• Publish complaint and enforcement summary annually.</li> <li>• Coordinate enforcement action information with EPA quarterly.</li> <li>• Finalize database for formal administrative enforcement and civil cases to track performance and penalty collection by 12/03.</li> <li>• Cooperate in EPA multi-media enforcement audit of DEM's enforcement and compliance assistance programs by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• On hold due to resource issues.</li> <li>• All complaints are documented, however due to staffing levels not all can be investigated.</li> <li>• Posted/updated continuously.</li> <li>• Published annually in April and posted on web.</li> <li>• Clean Air Act enforcement coordinated quarterly. However, Resource Conservation and Recovery Act and Clean Water Act enforcement behind schedule due to EPA staff limitations.</li> <li>• Initial draft started but requires further development. Further action pending resources and staff.</li> <li>• Audit to be complete 1/05.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<i>Pollution Prevention</i>	
<ul style="list-style-type: none"> <li>• Develop P2 action plan with roundtable members by 7/05.</li> <li>• Increase funding through grants, legislation, and budget revisions, based on P2 Roundtable recommendations.</li> </ul>	<ul style="list-style-type: none"> <li>• Further action not planned due to staffing and funding issues.</li> <li>• P2 staff evaluates grant opportunities available on an ongoing basis.</li> </ul>
<i>Ensure public compliance with laws and regulations at state facilities and on state waters.</i>	
<ul style="list-style-type: none"> <li>• Draft and introduce “Negligent Discharge of Firearms” legislation by 12/03.</li> <li>• Re-certify breathalyzer operators annually.</li> <li>• Draft legislation allowing common violations to be paid by mail and introduce in 2004 legislative session.</li> </ul>	<ul style="list-style-type: none"> <li>• Drafted legislation, however due to other legislative priorities, was not submitted. Delete from work plan FY 05.</li> <li>• Completed 16 re-certifications.</li> <li>• Draft written with assistance of Chief Justice of District Court in fall 03. This initiative is not a high priority. Re-submit package at a later date.</li> </ul>
<i>Consistent, fair and effective enforcement</i>	
<ul style="list-style-type: none"> <li>• Reduce the time to issue formal enforcement actions by 25% by 7/05.</li> <li>• Number of informal enforcement letters issued within 90 days of identification of violations. Target: 700 informal actions.</li> <li>• Require restoration of damaged resources where applicable in enforcement actions. # Of cases where restoration is achieved.</li> <li>• Recommend Supplemental Environmental Projects (SEPs) – environmental benefits of SEPs.</li> <li>• Number of complaints filed in Superior Court on high priority cases.</li> <li>• Number of lower priority complaints resolved by other means.</li> <li>• Obtain revenue sources and approval to fill key positions to patrol parks, beaches, boating areas and campgrounds during high use periods and target to deter boating while intoxicated.</li> </ul>	<ul style="list-style-type: none"> <li>• Information Technology projects in progress.</li> <li>• Issued 1,223 informal actions in 2003, generally within a 90-day timeframe.</li> <li>• 42 wetland restorations accomplished in calendar year 2003, resulting in restoration of 2.3 acres of wetlands and 4.4 acres of regulated land adjacent to wetlands.</li> <li>• Finalized SEP Policy amendments 7/04. SEP bank to be developed and put in place by 12/04. Settled 7 cases with SEP's totaling \$1,229,984.</li> <li>• Lack of personnel to evaluate and prosecute the high profile cases puts the Department in a constant "catch up" mode. Cases are constantly prioritized for early attention.</li> <li>• No tracking mechanism in place.</li> <li>• Filled 8 officer vacancies, 4 hired prior to start of fiscal year and 4 additional hired during course of year, all placed in Field Training Officer Program. 3 more in process of being filled.</li> </ul>
<i>Insure the safety of the user groups at DEM facilities.</i>	
<ul style="list-style-type: none"> <li>• Annual Voluntary compliance training.</li> <li>• Supervisor training to use limited enforcement powers and intermediate weapons for self-defense, annually.</li> <li>• Boaters: courses and challenge exams – 14 sessions each year.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted several trainings March through April. Forty-three park rangers and managers received voluntary compliance training for rules and regulations.</li> <li>• Conducted several trainings in spring 04. Fifty-four parks and recreation staff and 8 forestry staff trained in the use of non-lethal force.</li> <li>• Held 7 sessions. 531 challenge exams taken. Issued 1,111 education certificates. Monitor demand and response appropriately.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• Environmental law course for at least 4 Police Academy classes by 6/05.</li> <li>• Ensure staff participation in training provided by EPA, NEWMOA, NESCAUM, NEEP, NEWIPCC and other regional and national organizations by training 20 DEM staff in FY04 and 20 in FY05.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted three Environmental Crimes Courses for 86 police recruits. Presented an in-service training course on "The Operation of Metal Detectors" for approximately 15 DEM inspectors.</li> <li>• Air resources staff members attended 6 training courses and approximately 35 OWM staff attended training in FY04.</li> </ul>
<p><i>Implement Environmental Results Program (ERP) for Auto Body Repair Facilities funded through EPA grant.</i></p> <ul style="list-style-type: none"> <li>• Number of post-certification audits by OTCA.</li> <li>• Number of referrals to Compliance and Inspection.</li> <li>• Post-certification statistical analysis.</li> <li>• Develop statistical methodology by 11/03.</li> <li>• Develop wastewater and storm water management policy for auto body shops by 10/03.</li> <li>• Distribute policy to shops by 1/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Post-certification audits for 20 auto body shops participating in the Auto Body Certification Program, to be completed by 8/04.</li> <li>• 33 auto body shops not participating in the certification program referred for enforcement inspections, to be completed by 9/04.</li> <li>• Analysis expected to be complete by the end of 2004.</li> <li>• Completed 11/03, prior to mailing of certification materials to auto body facility operators, 12/03.</li> <li>• Formal policy development postponed until 12/05 to allow installation and evaluation of innovative wash water system being installed in auto body shops.</li> <li>• See Specific Steps &amp; Actions above</li> </ul>
<p><b>NEW</b></p> <ul style="list-style-type: none"> <li>• Implement an Auto Salvage Yard ERP by 3/08.</li> </ul>	<ul style="list-style-type: none"> <li>• Received \$200,000 EPA grant to develop. Project preliminary planning &amp; scoping to begin 8/04.</li> </ul>
<ul style="list-style-type: none"> <li>• Amend dry cleaning regulations to require removal of older model, high polluting equipment and to include additional health and safety requirements for facilities located in buildings with other residential and/or businesses by 10/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Promulgated regulations 12/03.</li> </ul>
<p><i>Underground Storage Tanks Dry Cleaning, Exterior Lead Paint Removal.</i></p> <ul style="list-style-type: none"> <li>• Develop workbook and checklist for UST's by 1/04, dry cleaners by 12/03, and lead paint contractors by 12/03.</li> <li>• Develop Environmental Business Practice Indicators (EBPIs) for USTs by 11/03, dry cleaners by 3/04, for lead paint removal by 3/04.</li> <li>• Develop statistical methodology for USTs by 1/04, dry cleaners by 12/03, and lead paint contractors by 12/03.</li> <li>• Initiate ERP program for USTs by 3/04, for dry cleaners by 7/04, for lead paint contractors by 7/04.</li> <li>• Investigate an ERP for commercial recycling in partnership with RIRRC (pending new staff support) by 4/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Developed draft Exterior Lead Paint Removal Workbook and Checklist 5/04, now undergoing Steering Committee review. Completed USTs 3/04. Dry cleaners on hold due to staff &amp; funding.</li> <li>• For Exterior Lead Paint Certification program, development of EBPI's underway. USTs completed 3/04. Dry cleaners on hold due to staff &amp; funding. Complete by 9/05.</li> <li>• Completed, using same statistical methodology as used for Auto Body Certification Program.</li> <li>• For Exterior Lead Paint Certification program, document review underway by governmental Steering Committee. USTs completed 3/04. Exterior lead paint removal ERP initiated by 1/05.</li> <li>• Applied unsuccessfully for two EPA Solid Waste grants in FY04. No further action planned at this time.</li> </ul>



Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>ISO 14000 Roundtable</i></p> <ul style="list-style-type: none"> <li>• Participate in ISO Roundtable meetings.</li> <li>• Draft policy for ISO 14000 recognition, may include permit-streamlining assistance by 6/05.</li> <li>• Implement Compliance Incentive Act - draft regulations by 7/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Delayed due to staffing.</li> <li>• Delayed due to staffing.</li> <li>• Reviewed two Compliance Incentive audits in FY04.</li> </ul>
<p><i>Conduct about 1,000 compliance inspections annually. (Applies to all DEM divisions who conduct inspections.)</i></p> <ul style="list-style-type: none"> <li>• 350 (70%) gasoline dispensing facilities annually.</li> <li>• 35 (70%) majors, Title V annually including 5 power plant facilities.</li> <li>• 26 (25%) air pollution sources with emissions caps annually.</li> <li>• Stack tests – 35 annually.</li>   <li>• 25-40 synthetic minor sources annually.</li> <li>• Power plants – 5 facilities annually.</li> <li>• Pesticides – 26 farms, 50 commercial, 4 producers, 40 marketplace, 30 applicators annually.</li>   <li>• Permitted hazardous waste transporters – 10 annually.</li>   <li>• Treatment Storage and Disposal Facility (TSDFs) – 2 annually.</li> <li>• 100 solid waste and municipal waste annually.</li> <li>• 25 Large Quantity Generators (LQGs) annually.</li> <li>• 36 Small Quantity Generators (SQGs)- metal finishing by 6/04.</li> <li>• 40 SQGs – metal finishing by 6/05.</li> <li>• 4 hazardous waste generators discharging to outfall W-6 by 6/04.</li>   <li>• 30 auto body shops by 6/05.</li> <li>• 60 USTs annually.</li> <li>• UST for ERP – 40 baseline; 40 follow-up in 1 year by 6/05.</li> <li>• Wetlands – 30 by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed 438 inspections.</li>   <li>• Completed 28 inspections.</li>   <li>• Tested 52 units. Will divest in 15 stack tests in annual NOx tests due to priorities shifting to dry cleaners.</li> <li>• Included in emission caps above.</li> <li>• Included with major, Title V above.</li> <li>• Inspected 6 farms, 43 commercial, 38 market places, and 6 applicators, dealers. DEM monitors actual application of pesticides at farms and commercial establishments; many applications occurred on weekends when state staff was not working. New worker safety regulations also require interviewing workers to ensure managers in compliance and this increases time for inspections.</li> <li>• Transporter inspections to be coordinated w/ state police. DEM inspectors went to inspection site 6/04. State Police had changed date and did not notify DEM. Arrange inspection in 8/04 or 9/04.</li> <li>• Completed 3 inspections.</li>   <li>• Completed 148 inspections.</li> <li>• Inspected 26 LQGs.</li> <li>• Priorities shifted - RI Airport Corporation multi-media inspection effort added and metal finishing project dropped.</li> <li>• Inspections will be done as a result of complaints. No specific number targeted.</li> <li>• Collaborative effort in W-6 area in Johnston with ongoing inspections. Completed 6 auto body shop inspections. OCI conducted 17 inspections, OWM issued enforcement actions. Draft report to work group in progress. Complete report by 9/04. Project to continue through FY 05.</li> <li>• Inspected 29 auto body shops.</li> <li>• OCI conducted 110 inspections; OWM completed 46 inspections.</li> <li>• OCI has completed approximately 92. OWM &amp; OCI conducted 73 inspections.</li> <li>• Completed 89 compliance inspections.</li> </ul>

<b>Planned FY2004/2005 Work Plan</b>	<b>Completed/Progress FY2004; Changes FY2005</b>
<ul style="list-style-type: none"> <li>• RIPDES major – 25 by 6/04.</li> <li>• RIPDES minor – 14 annually.</li> <li>• Multi-media inspections – 2 annually.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted 25 Compliance Evaluation Inspections.</li> <li>• Completed 20 inspections.</li> <li>• Completed 2 inspections.</li> </ul>

## Cross-Goal Strategies

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Work plans/Progress Reports</i></p> <ul style="list-style-type: none"> <li>• Work plans for FY2004 and 2005 and Performance Partnership Agreement with EPA completed by 11/03.</li> <li>• Progress Report on work plan for FY2003 published by 10/03.</li> <li>• Annual reports with progress indicators and performance measures published February 2004 and February 2005.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed 12/03; slight delay due to leadership changes in both DEM and EPA.</li> <li>• Report published 11/03. Progress report on work plan for FY2004 to be published by 10/04.</li> <li>• 2003 Annual report published 5/04.</li> </ul>
<p><i>Internal operations</i></p> <ul style="list-style-type: none"> <li>• Compile monthly vacancy report and hiring priorities.</li> <li>• Provide diversity training (contingent on funding).</li> <li>• Implement recommendations of Governor's Fiscal Fitness initiative.</li> <li>• Implement improved cost accounting system to track program/project expenditures by 10/03.</li> </ul>	<ul style="list-style-type: none"> <li>• Monthly reports provided to senior management.</li> <li>• First of three diversity training sessions scheduled for 7/04. Continue sessions in 9/04 and 11/04.</li> <li>• Various fee increases were put into effect as of July 1, 2004. Other discussions are ongoing.</li> <li>• On schedule. Accountants are reviewing the new program as they move to the automated system.</li> </ul>
<p><i>Develop a program to improve quality and timeliness of permit processing.</i></p> <ul style="list-style-type: none"> <li>• Identify areas requiring better guidance by 6/05.</li> <li>• Produce three new guidance documents by 6/05.</li> <li>• Develop training by 6/05.</li> <li>• Conduct training on decision-making and process by 6/05. Develop consultant accountability strategy by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• On hold due to resource issues.</li> </ul>
<p><i>Partnerships</i></p> <ul style="list-style-type: none"> <li>• Continue quarterly roundtable meetings with business and environmental communities.</li> <li>• Continue to work with stakeholder groups, including Greenhouse Gas Stakeholders, Solid Waste Task Force, Litter Task Force, and watershed, agriculture, forestry and land trust organizations.</li> <li>• Continue to work with partners such as nonprofits, municipalities, and academic institutions.</li> <li>• Develop a new Pollution Prevention Roundtable by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Business Roundtable meetings held 8/03, 12/03, 2/04, 5/04. Environmental Roundtable meetings held 9/03, 12/03, 2/04, 5/04.</li> <li>• Ongoing.</li> <li>• Ongoing.</li> <li>• Further action not planned due to staffing and funding issues.</li> </ul>
<p><i>Customer Service</i></p> <ul style="list-style-type: none"> <li>• Distribute department-wide customer service survey (was to be done by 12/03. Will not be done due to loss of staff).</li> <li>• Yearly surveys in the permitting programs (was to have begun in 10/03 is delayed due to loss of staff).</li> </ul>	<ul style="list-style-type: none"> <li>• Finalized Permitting Program customer survey report 3/04. Also compiled report on survey of approximately 100 people involved with cases heard before the Administrative Adjudication Division. Surveys will continue as resources permit.</li> <li>• See above.</li> </ul>
<p><i>E-government Services</i></p> <ul style="list-style-type: none"> <li>• Increase the number of services available to consumers via the web - selected permit and license applications and provide ability to check on the status of permits.</li> </ul>	<ul style="list-style-type: none"> <li>• Added Freshwater Fishing License Service. New services by 6/30/05: (1) Wetlands Status Check, (2) UST Registration, (3) Transporter permits.1</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Improve tracking, storage, and retrieval of information in the Office of Water Resources and with cooperating agencies, including EPA (STORET, GRTS, TMDLs, UIC, and WQC).</i></p> <ul style="list-style-type: none"> <li>• Develop implementation plan for improvements by 6/04.</li> <li>• Investigate opportunities to improve and to increase public access to system data via the web by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Have EPA contract &amp; support to begin implementing STORET. TMDL database developed 1/04. GRTS part in-progress.</li> <li>• Ongoing. Working with IT and discussing options. Depends on resources.</li> </ul>
<p><i>Environmental Quality Information System (EQUIS) environmental monitoring system database.</i></p> <ul style="list-style-type: none"> <li>• Develop standardized format for electronic data submissions by 5/04.</li> <li>• Work with consultant(s) to download data from "pilot site" in standardized format by 9/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Standardized format adopted 3/04. Contractor training to begin in Fall 04.</li> <li>• Made two unsuccessful attempts to download data. Format revisions pending.</li> </ul>
<p><i>Permit Process Tracking Information System (PPTIS)</i></p> <ul style="list-style-type: none"> <li>• Add the Office of Compliance and Inspection to the PPTIS system by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Pursuing new technology and re-designing application prior to further rollout. Also, lack of resources. Complete by 12/05.</li> </ul>
<p><i>Complete two National Environmental Information Exchange Network (NEIEN) grant projects.</i></p> <ul style="list-style-type: none"> <li>• Build a node and exchange facility data with EPA.</li> <li>• Create a National Hydrography Dataset (NHD) for Rhode Island 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Behind Schedule due to lack of adequate staff resources. Complete by 6/30/05.</li> <li>• On schedule.</li> </ul>
<p><i>Complete test of bio-reactive remediation of MTBE in drinking water.</i></p> <ul style="list-style-type: none"> <li>• Began six-month Pascoag bio-reactive remediation testing in 7/03; expand if system performance is favorable.</li> <li>• Develop a policy paper on using and promoting innovative technologies by 6/02.</li> </ul>	<ul style="list-style-type: none"> <li>• EPA research project. Pascoag remediation ongoing using proceeding conventional approach.</li> <li>• On hold due to staffing.</li> </ul>
<p><i>Funding</i></p> <ul style="list-style-type: none"> <li>• Continue to pursue grant funding for projects/initiatives that support priority work plan items.</li> <li>• Submit legislation for re-institution of fees to support chronically under-funded functions for 2004 legislative session.</li> <li>• Establish permanent source of revenue to maintain facilities, vehicles and equipment on a regular schedule by 6/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing. Major grants secured in 04 including: \$414,000 for Homeland Security, \$1 million for air toxics study monitoring Green Airport, \$555,000 for marine fisheries law enforcement, \$50,000 for Greenwich Bay Riparian Project, \$160,500 for Greenhouse Gas Action Plan implementation and stakeholder process, \$83,000 for Pawtuxet River fish passage, and \$198,000 for the Senior Farmers' Market Nutrition Program.</li> <li>• No reinstatement of fees, however, the General Assembly passed a budget article which increased numerous Department fees and gave the Department the authority to levy fees in its groundwater protection and well drilling programs.</li> <li>• On hold due to staffing and budget reductions.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• <b>NEW</b> - Pursue funds for school chemical clean out.</li> <li>• <b>NEW</b> - Pursue funds for electronic training of teachers in hazardous waste requirements.</li> <li>• <b>NEW</b> - Pursue funds for permanent Mercury collection and disposal activities.</li> </ul>	<ul style="list-style-type: none"> <li>• Work with RICSSC for grants, \$15,000 in 2004.</li> <li>• EPA Healthy communities grant application in June 2004.</li> <li>• Topic for discussion in Governor's Mercury Reduction Commission 2004.</li> </ul>
<p><i>Cost recovery on enforcement matters</i></p> <ul style="list-style-type: none"> <li>• Capture at least 45% of recoverable costs in 2004.</li> <li>• Implement tracking systems for formal enforcement actions, consent agreements and superior court orders involving penalty assessments and payment deadlines by 1/4.</li> <li>• By 2006, with GNBWC develop a strategic plan for port activity and marine transportation with EDC and URI Transportation Center.</li> </ul>	<ul style="list-style-type: none"> <li>• Sent out \$38,050 in cost recovery bills; received \$236,521 (reflects \$ owed from previous fiscal years, no data base to track 1:1 money due vs. money received by Fiscal Year). Also, collected 21% of dollars billed related to collection actions.</li> <li>• Information Technology projects in progress. New date 1/05.</li> <li>• Too soon.</li> </ul>
<p><i>Strengthen environmental education</i></p> <ul style="list-style-type: none"> <li>• Enhance the DEM website - complete emergency response website by 9/04.</li> <li>• Work with students from the Metropolitan School to draft web-based material and brochures in languages other than English by 2/04.</li> <li>• Issue specifications to standardize DEM publications by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Launched a BART website to provide additional information related to bay monitoring and response activities. Expected to be online by 11/04.</li> <li>• 3 Metropolitan School students worked in 3 DEM divisions. Translated 3 brochures into Spanish. Topics included West Nile Virus, Mercury in consumer products and general information about contacting DEM.</li> <li>• On hold due to staffing.</li> </ul>
<p><i>Improve administration and streamline permit processes.</i></p> <ul style="list-style-type: none"> <li>• Reduce RIPDES major permit backlog to 0% by 12/04.</li> <li>• Reduce RIPDES minor backlog to 6% by 12/04.</li> <li>• Reduce average number of days from receipt of wetlands applications to issuance of final decision from 86 (FY03) to 65 or fewer by 6/05.</li> <li>• Revise Groundwater Regulations to streamline procedures by eliminating routine Groundwater Quality Certifications by 9/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Backlog 45% at end of 6/04. New targets; 4% by 12/04; 0% by 12/05.</li> <li>• On target. Issued 30 permits; terminated 10.</li> <li>• Average decision time for 04 was 86 days. Target may not be met due to 20% reduction in staffing in 04.</li> <li>• Public noticed expected 9/04.</li> </ul>
<p><i>Implement recommendations from Wetlands &amp; ISDS Task Force</i></p> <ul style="list-style-type: none"> <li>• ISDS revised rules 6/04.</li> <li>• Wetlands revised Phase II rules 3/04.</li> <li>• Wetlands revised Phase III Rules 12/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Complete by 6/05.</li> <li>• Extensive comments and development of new rules. Developed 3rd draft rules 12/15/03. Coordinated review by staff and task force. New target date 12/04.</li> <li>• Background legal research; new target date 9/05.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>NEW</b> Develop Wetland Bio-monitoring plan as part of RI water monitoring strategy by 1/05.</li> </ul>	<ul style="list-style-type: none"> <li>• Hired New England Interstate Water Pollution Control Commission consultant (2/04). Background research through (7/04). DEM &amp; partners meeting (7/04).</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<p><i>Develop more general permits to speed permitting and allow staff time to conduct more on-site inspections.</i></p> <ul style="list-style-type: none"> <li>• Begin issuing new permits by 6/04.</li> <li>• Issue general permit for subsurface storm water discharge by 9/04.</li> <li>• Allow more beneficial reuse of bio-solids by revising sludge regulations by 4/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Issued non-contact cooling water general permit 7/03. Authorized 18 facilities by 7/04. Additional general permits under development.</li> <li>• No action due to other priorities and staffing.</li> <li>• Draft revisions approximately 75% complete.</li> </ul>
<p><i>Dredging - work with CRMC to coordinate dredging applications by 12/03, including refining the:</i></p> <ul style="list-style-type: none"> <li>• public notice process</li> <li>• application form</li> <li>• Guidance.</li> <li>• Work with GNBWC and CRMC to develop a master plan for dredging and management of dredge material, including a 20-year plan for maintaining navigational channels and basins with CRMC by 2005.</li> <li>• Enhance the DEM dredging web page to include all dredging projects by 6/04.</li> <li>• Develop a dredging component for the watershed notification process by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Established pilot process 12/03. Continuing to refine the process.</li> <li>• Completed by 8/04/04.</li> <li>• Completed by 8/04/04.</li> <li>• Completed by 8/04/04.</li> <li>• Participating in work group. Sponsored legislation to allow de-watering of dredge material at Quonset that failed to pass. An EIS for long-term offshore disposal site in Rhode Island Sound completed summer 04. Two sites in the Bay were studied for long-term disposal and rejected.</li> <li>• Contract negotiations continue to develop a comprehensive database for water projects to allow projects to be posted on the RI Gov. website, 1/05. Resolve database service contract 9/04.</li> <li>• Part of the above project. Delays in process development. Post to website beginning 1/05.</li> </ul>
<p><i>Environmental Equity/ Environmental Justice</i></p> <ul style="list-style-type: none"> <li>• Publish Biennial report on EE progress 5/04.</li> <li>• Convening Environmental Equity Advisory Council has been dropped due to loss of staff.</li> <li>• Trend in # and dollar amounts of grants to populations or areas that lack access to or enjoyment of natural resources consistent with the State Comprehensive Outdoor &amp; Recreation Plan (SCORP) distributed through recreation grants.</li> <li>• Train 50% of DEM staff on EE/EJ issues by 9/05.</li> <li>• Outreach and public participation plan for the non-English speaking community - meet with leaders of the Latin and Asian communities to determine their environmental education needs by 12/03.</li> <li>• Develop a plan to translate environmental material to the non-English speaking community by 9/03.</li> <li>• Implement the Mentor Program with the Metropolitan School by 9/03.</li> <li>• Develop enhanced public participation process by 12/03. Evaluate feasibility of incorporating into regulation by 12/04.</li> <li>• Develop outreach, participation, education priorities and methods by 6/04.</li> </ul>	<ul style="list-style-type: none"> <li>• Draft report prepared 7/04 to be completed after publication of DEM Progress Report by end of 10/04.</li> <li>• No change.</li> <li>• No tracking system in place.</li> <li>• No action in FY 04.</li> <li>• Surveyed four Hispanic community groups. Insufficient information collected from the survey to move forward with this project. Brown University and Dept. of Health assessing the needs of the Asian community. Extending grant from 12/04 to 3/05.</li> <li>• Plan dropped from work plan due to other priorities. However, some brochures translated (see above).</li> <li>• 3 interns participated.</li> <li>• Project delayed due to staffing resources.</li> <li>• Project delayed due to staffing resources.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• Develop school siting policy approach by 6/04-pending funding.</li> <li>• Develop school-siting policy by 6/05.</li> <li>• Conduct outreach project with Brown University and Southeast Asian community on fish consumption and mercury by 4/04.</li> </ul>	<ul style="list-style-type: none"> <li>• DEM and RI Legal Services met 5/04 to coordinate project.</li> <li>• Pending funding.</li> <li>• Budget problems delayed the start of the project by seven months. Work is continuing as of 6/04. Anticipate public education program will be developed for the Asian community concerning eating fish that may be contaminated with mercury or PCB's. Brown University is scheduled to develop a plan by 12/04.</li> </ul>
<p><i>Watershed resource management through community-based planning and implementation</i></p> <ul style="list-style-type: none"> <li>• With partners develop model stormwater education and outreach materials for watershed organizations and communities. Materials pending availability of funds.</li> <li>• Manage the Narrow River Stormwater Abatement. Complete by 6/05.</li> <li>• With the Woonasquatucket Watershed Council, Habitat Restoration Team and other partners identify and restore riparian buffers. Complete restoration by 6/05.</li> <li>• With the Woonasquatucket Watershed Team and watershed communities, develop Greenspace plan and Implementation Strategy. Complete strategy by 2/04.</li> <li>• Complete Buckeye Brook Action Plan by 6/05.</li> <li>• Assist with development of a water quality Salt Pond Action Plan by 6/05.</li> <li>• Update the South County Greenspace Plan by including new land acquisition and vernal pool information by 12/04.</li> <li>• Develop Riparian and Coastal Buffer Restoration Identification project in Greenwich Bay.</li> <li>• Complete Woonasquatucket Land use and Zoning project with the city of Providence and the Woonasquatucket Watershed Council by 12/04.</li> <li>• Coordinate the Blackstone Watershed Integrated Water Resource Management Project, pending funding.</li> <li>• Help with abatement project grant writing; apply for grants on team behalf; manage grants for locals to encourage the implementation of watershed plans and action items.</li> <li>• Explore funding sources to do Greenspace Plans in other watersheds.</li> <li>• Continue to pursue grants to build capacity of communities to plan for growth.</li> <li>• Assist the Governor's Growth Planning Council to pilot the growth center concept.</li> </ul>	<ul style="list-style-type: none"> <li>• Five year project to be conducted by URI.</li> <li>• On target. Developed grant proposal 7/03. Received funding 10/03. Request for Proposals pending.</li> <li>• Three restoration plans complete: Riverside Mills, Whipple Field, Smithfield DPW. (Whipple Field restoration delayed in permitting.) Identify additional restoration sites. Develop restoration plans. Seek funding for restoration.</li> <li>• Final draft completed 7/04. Complete by end of FY 05.</li> <li>• Plan completed 9/03. Awaiting comment from Buckeye Brook Watershed Association.</li> <li>• Consultant hired 07/04. Draft plan due 06/05.</li> <li>• No funds to use consultant. Delete strategy.</li> <li>• Applied for and received \$50,000 grant from the Forest Service. Project has begun.</li> <li>• Hired consultant, managing project. Project complete by 10/04.</li> <li>• Prepared grant proposal. Received grant award of \$1.2 million in 2/04. Preparing formal proposal to be developed by 1/05. Initiate four-year project.</li> <li>• See specific project for information - Narrow River, Salt Pond, Woonasquatucket, and Blackstone.</li> <li>• Received funds from the Providence Water Supply Board for Scituate watershed 4/04. Need matching funds from the Park Service.</li> <li>• See conservation development below.</li> <li>• Two sites in Burrillville and East Providence designated as pilot growth centers 12/03.</li> </ul>

Planned FY2004/2005 Work Plan	Completed/Progress FY2004; Changes FY2005
<ul style="list-style-type: none"> <li>• Develop an urban environmental design manual by 4/04.</li> <li>• Make 10 presentations on creative development techniques to wide audiences 12/04.</li> <li>• Technical assistance/training for communities planning for conservation development training.</li> </ul>	<ul style="list-style-type: none"> <li>• Draft completed 3/04. Advisory committee comments from 3/04 meeting incorporated into final draft. New completion date 12/04.</li> <li>• 10 presentations made to land trusts, Environmental Round Table, Land Trust Conference, Land Surveyors Conference, Southern New England Soil and Water Society conference and five communities.</li> <li>• Training course developed 5/04. Initial course given 6/04. Courses will be given to communities starting Fall 04.</li> </ul>
<p><i>Develop training programs in basic and advanced land use planning techniques.</i></p> <ul style="list-style-type: none"> <li>• With partners complete a conservation development training manual for planners by 6/04.</li> <li>• Explore funding sources to implement Conservation Development.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed and distributed training manual.</li> <li>• Received grant funds to assist four communities (Smithfield, N. Smithfield, Gloucester, and Johnston) to implement conservation development. Issued RFP and selected consultant. 6/04. Complete by 06/05.</li> </ul>



**Appendix A - DEM Response Plan to the Governor's Initiative on  
Narragansett Bay and Watersheds**

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**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR’S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

NOTE: This is the current plan as of October 28, 2004. It is a working document used to track what the Department is doing on this initiative and is continually revised.

Issue	Recommendation	Action	DEM Response / Status	Due Date
I. Nutrient & Bacteria Reduction	1A. Financing <b>Assure availability of financing to support priority nutrient &amp; bacteria reduction needs</b>	IA1. Develop restructured Clean Water Bond proposal. (Done)		Done
		IA2. Enact 04 portion of bond proposal. (Done- \$19 million on 11/04 ballot)		Done
		IA3. Mount campaign in support of 04 portion of bond proposal by voters.	IA3. Provide technical support to campaign led by Save the Bay & The Nature Conservancy. OWR, P&D, SPP, Director’s Office are compiling and disseminating information on the bond issue, flyer, question and answer fact sheet, list of events, lists of projects funded through previous bond issues, etc. Staff are also participating in bond steering committee and working groups.	IA3. 7/23 – 11/2/04
		IA4. Pending passage, oversee administration of 04 bond by DEM	IA4i. Develop 5- year plan for capital budget.	IA4i. Completed
			IA4ii. Reevaluate the Project Priority list to determine if nutrient reduction projects are likely to receive SRF funding. E. Providence and Woonsocket nutrient reduction projects were added to PPL. However, neither community has applied for funding. Based upon last year’s SRF funding cut off line, they would receive funding. This year’s cut off has not been determined yet. NBC’s Field’s Point WWTF Nitrogen Reduction project is the only nutrient removal project that is contained in the FY ’05 SRF funding request (NBC has been allotted 40M for FY ’05, some of which may be allocated for the CSO project)	IA4ii. 4/30/05
			IA4iii. Develop Project Priority list. PPL public hearing held 8/31/04	IA4iii. 9/24/04 or 05
IA4iv. Develop RFP in anticipation of FY 06 administration of NPS bond funds. DEM will also develop regulations that outline the procedures used for awarding non-point source, <a href="#">non-governmental and habitat restoration grants.</a>	IA4iv. 6/30/05			
	IA5. Pursue enactment of 06 portion of bond proposal in 05 or 06 legislative sessions.			
	1B. Wastewater Treatment Facilities <b>Remove 40-50% of nitrogen from RI treatment facilities that discharge to the upper Bay or its tributaries by incorporating nutrient reduction requirements in WWTF discharge permits</b>	IB1. Complete nutrient reduction upgrades underway at six Rhode Island facilities: NBC Bucklin Point, Warwick, Cranston, East Greenwich, Smithfield, and West Warwick.	IB1. Monitor the progress of the upgrades. NBC Bucklin complete construction due 9/06. Nitrogen reduction portion ahead of schedule, start-up planned for 9/05. Additional modifications may be necessary to meet draft permit modification. Warwick 95% complete and the Biological Nutrient Reduction (BNR) process was started 6/04. Revised deadline for permit compliance is 11/04. Cranston-Order of Approval issued 9/04. Construction completion due by 4/05. East Greenwich-construction has started, completion required by 3/06. Smithfield-final design due 10/04, compliance with new limits by 11/ 05. W. Warwick BNR upgrades approx. 90% complete, construction completion and compliance required by 7/05. Start-up of BNR planned for spring of 2005. Bucklin Point upgrades proceeding. Construction of BNR improvements approx. 75% complete at this time. BNR expected to start in summer/fall 2005	IB1. 12/06
		IB2. Direct DEM to issue proposed permit modifications establishing new or revised nitrogen limits for four treatment facilities: East Providence, NBC Fields Point, Warren, and Woonsocket. [Done].	IB2. Develop final permits and consent agreements with implementation schedules based on draft permit issued on 7/2/04. Received comments from NBC and Woonsocket. Response sent to Mayor of Woonsocket. NBC’s comments under review. Additional analysis required prior to developing a permit modification for Warren.	IB2. 1/1/05

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR’S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date	
I. Nutrient & Bacteria Reductions		IB3. Direct DEM to provide technical assistance to evaluate the feasibility, cost and timeframes for implementing temporary improvements at up to five treatment facilities: Cranston, East Greenwich, East Providence, Fields Point, and Warren.	IB3. Conduct site inspections, with contractor assistance, to evaluate the feasibility, cost and timeframes for implementing temporary improvements at up to five treatment facilities. Use the information collected in the inspections to develop and implement appropriate strategies. Site visits and operations training were conducted on 8/19 and 20, 2004. Some facilities are proceeding with operational changes immediately. All facilities are, or will be, evaluating temporary modifications with assistance from RIDEM, NEIWPC and experts in the field. Initial findings indicate good chances for interim nitrogen removal. Warren & Fields Point Proposals look good. E. Greenwich is evaluating process changes. E. Providence seeing some reductions.	IB3. 8/30/04	
	1C. Cesspools Phase out high-risk cesspools; expand & strengthen municipal onsite wastewater management programs; and complete sewerage with n targeted communities; mandate sewer tie-ins		IC1. Given General Assembly’s failure to enact Governor’s cesspool phase-out legislation, pursue issue via new DEM regulatory program developed pursuant to existing statutory authority. Seek continuing commitment from CWFA to make available \$2 million annually for 10-year loans at 2% interest to assist homeowners with financing for cesspool replacements.	IC1i. Develop short conceptual outline of regulatory proposal.	IC1i. Done
				IC1ii. DEM will move forward with a legislative proposal to pursue cesspool phase out using the 2004 legislation as a starting point.	IC1ii. 10/15/04
			IC2. Urge municipalities to establish new and to strengthen existing wastewater management programs to help ensure proper ISDS maintenance and management. Explore options to provide state support for program development.	IC2. Outline anticipated costs for developing new and strengthening existing municipal programs. Evaluate existing funding sources to determine eligibility and identify potential options. DEM has developed a white paper that will be used to determine the cost of developing municipal capacity (excluding personnel costs) for developing and enhancing implementation of wastewater management plans.	IC2. 9/15/04
			IC3. Develop strategy to ensure that priority sewer projects in targeted communities move forward with local and state support.	IC3. Identify high-priority areas, review project priority list, and evaluate funding needs.	IC3. 10/1/04
			IC4. Direct DEM to develop legislation for the next session of the General Assembly to mandate sewer tie-ins.	IC4. Research & develop proposal. This proposal will be in the DEM legislative package. Elizabeth Stone will help to research this issue.	IC4. 10/15/04
1D. Stormwater 1. Implement municipal & state stormwater plans & assist with financing.		ID1i. Provide state support (DEM nonpoint source grants) to municipalities for development of Storm Water Management Plans	ID1i. (Done – 36 municipal grants issued, 33 plans submitted to DEM).	ID1i. Done	
		ID1ii. Direct DEM to complete its review of the plans.	ID1ii. Assign to 33 plans to staff for review (Done as of 7/1/04). Develop a schedule for completing review of plans. Behind, anticipate schedule by 9/30/04. DEM will focus on projects that support implementation of recommended TMDLs.	ID1ii. 7/31/04	
		ID1iii. Pending passage of 04 bond, provide grants to support implementation of plans.	ID1iii. Develop RFP and regulations in anticipation of FY 06 administration of NPS bond funds.	ID1iii. 8/31/05	
	2. Implement infiltration measurers & other techniques that have proven more effective than end-of-pipe treatment.	ID2. Direct DEM to work with the Bay Coordination Team and business interests to determine what cost-effective measure and techniques exist and how they should be utilized.	ID2. Share RIPDES Stormwater Phase II BMP Toolbox, Stormwater Design & Installation Standards Manual (currently being updated by J. Riordan) and Urban Manual with appropriate stakeholders.	ID2. On-going	

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date
	3. Implement measures prioritized in TMDLs for Greenwich Bay, the Palmer, Barrington, and Narrow Rivers, Green Hill Pond, and the Saugatucket River	ID3. Director DEM to work with communities and other responsible parties to implement measurers identified in completed TMDLs.	ID3. Review existing TMDLs and compile an inventory of measures that can be implemented. List available. Complete computer database by 9/30/04	ID3. 7/2/04
	4. Develop TMDLs for the Blackstone, Woonasquatucket, & Kickemuit Rivers	ID4. Direct DEM to complete remaining TMDL studies to ensure long-term protection of the Bay.	ID4. Develop a schedule to complete remaining TMDLs with existing resource levels. Blackstone 12/31/07, Woonasquatucket 12/31/05 and Kickemuit 12/31/05. (The dates listed are dates when the TMDLs will be completed.)	ID4. 7/2/04
	1E. Boaters Discharges Ensure compliance with "no-discharge" requirement	IE1. Direct DEM to work with harbormasters to intensify enforcement of the no-discharge law throughout the bay, with particular emphasis on the following priority beach areas: City Park, Goddard Park, and Oakland Beach in Greenwich Bay; Warren Town Beach; and King Park in Newport. The initiative should increase routine inspections for safety and discharges.	IE1i. Conduct directed patrols, targeting five priority beach areas, to check for compliance with no-discharge law. To date, DEM has documented the following: 31 boardings and MSD inspections 1 written warning for non compliant MSD 6 arrests for non compliant MSD Boardings conducted on the waters of: Bristol, Prudence Island, Warwick Cove, Wickford, Jamestown Bridge, Warren River, Sakonnet River, Block Island, Greenwich Bay, Westerly, Galilee, Narragansett and North Kingstown Violations were found at Jamestown Bridge, Block Island, Narragansett, Galilee, Greenwich Bay, and Prudence Island	IE1i. 7/1 - 9/6/04
	1E. Boaters Discharges Ensure compliance with "no-discharge" requirement		IE1ii Develop a press release that provides the public on information concerning compliance with the no discharge enforcement program.	IE1ii. 9/30/04
		IE2. Direct DEM, in conjunction with marinas, to enhance public education and outreach efforts regarding the no-discharge law and availability of pump-out opportunities by updating the Department's website and developing a new brochure to be distributed with all boat registrations.	IE2i. Develop new brochure; post on DEM website and distribute to all boat registration walk-ins (done). IE2ii. Include brochure in next year's mailing of all boat registration renewals. IE2iii. Develop a DEM strategy that implements the Petrillo bill. IE2iv. A decision needs to be made on the lead office of this initiative, i.e., Boating, Enforcement or OWR.	IE2i. Completed IE2ii. E2ii. Completed IE2iii. 11/15/04 On-track IE2iv. 1/1/05
	1F. Combined Sewer Overflows Complete the CSO Projects in a timely fashion.	IF1. Direct that all steps be taken to adhere to the projected 2007 completion date for the NBC CSO Project.  IF2. Direct DEM to complete its review of Newport's phased CSO Control Plan and upon approval, call upon the City to move forward promptly with Phase I Implementation.	IF1. Track progress and monitor the implementation of the Providence CSO project. The NBC CSO project in Providence (The main spine tunnel) is about 8-10 months behind schedule. DEM continues to monitor the progress of the project.  IF2i. Complete review of Newport CSO Control Plan. Plan approved 7/2/04 IF2ii. Monitor implementation of Newport CSO Plan. City issued RFP 7/04.	IF1. Ongoing  IF2i. 7/2/04 IF2ii. Ongoing

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date
II. Beaches	IIA. Investigate & eliminate sources of pollution of beach areas	IIAi. Direct DEM, DOH, and DOT to develop and implement a joint beach improvement strategy targeting 10 priority beaches. In addition to Scarborough, the strategy should address pollution reduction at priority beaches such as Warren Town Beach, Conimicut Point, Oakland Beach, Barrington Town Beach, Bristol Town Beach, King Park Swimming Areas, City Park Beach (Warwick), Goddard Park, and Easton's Beach in Newport.	IIAi. Assist DOH in finalizing the existing beach improvement strategy detailing the actions to be taken by each agency. Coordinate with DOT as necessary. Beach Improvement Strategy in development will include information from HEALTH, DEM, and DOT. Several phases of the plan are already being implemented. Efforts are now being concentrated on evaluating Scarborough and identifying possible fixes at Easton's Beach. (Additional information concerning beach updates can be located in Attachment A below.)	IIAi. 9/30/04
		IIAii. As top priority, direct DOT to design and construct modifications to the stormwater system at Scarborough Beach, and further direct DEM to investigate potential pollution sources contributing to the system, to abate that area's stormwater discharge problem.	IIAii. Identify and address septic problems at campground (Done) and in Black Point watershed area. As of 9/15/04, DEM has completed all of the inspections of the Black Point area. 30 houses were inspected. 9 failed systems were identified. All but 1 owner has been issued an NOI. The NOI for the last owner will be mailed week of 9/17/04. If the owners do not respond in a timely fashion to correct the violations, we will issue NOV's. These sites will be added them to DEM's NOV Pending list now. Given our current caseload, I anticipate issuing NOV's within 6 months if no action has been taken.	IIAii. Ongoing
III. Habitat Restoration	IIIA1.Habitat Restoration Program Establish a formalized statewide habitat restoration program, and prioritize & implement key projects	IIIA1. Through the Coordination Team, formalize the establishment of a state habitat restoration program and develop a prioritized restoration plan for marine and freshwater habitats. The program should involve designated staff from CRMC and DEM and incorporate the existing RI Habitat Restoration Team.	IIIA1i. Participate in development and implementation of program, drawing upon efforts undertaken to date by RI Habitat Restoration Team. Focus primarily on freshwater wetland and riparian buffer projects, allowing CRMC to take the lead on coastal projects. DEM needs to prioritize agency projects that will be submitted to the current CRMC RFP process. The \$200K will be leveraged with other federal funds. (DEM has also submitted a proposal to NRCS to complete a buffer prioritization strategy for the state.)	IIIA1. Formalize program & prioritize projects by 12/4. Develop implementation schedule by 12/05.
			IIIA1ii. EM needs to continue to work with a team on a prioritization process that ensures projects funded in the future have greatest value in habitat / environmental protection.	IIIA1ii. 12/1/04
III. Habitat Restoration	IIIA2. Funding Fund Habitat Restoration Trust Fund & use 2004 Bond for additional funding for restoration	IIIA2i. Transfer \$250, 000 from OSPAR Fund to Habitat Trust Fund, in accordance with new statutory provision, and direct CRMC, through the state habitat restoration program, to identify priority coastal projects to be funded.	IIIA2i. Transfer to occur when CRMC requests funding.	IIIA2i. As appropriate
		IIIA2ii. Transfer \$968,000 from the OSPAR Fund to CRMC for South Coast Restoration Project, and \$100,000 to DEM for Town Pond Project, in accordance with FY04 Supplemental and FY05 budget provisions.	IIIA2ii. Transfer to occur when CRMC requests funding.	IIIA2ii. As appropriate

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date
		IIIA2iii. In keeping with priorities established through the state habitat restoration program, pursue FY06 funding for South Coast Restoration Project (\$932,000), Town Pond (\$330,000), and Ten Mile (\$100,000) via OSPAR transfers set forth in capital plan.	IIIA2iii. DEM will set this in their 2006 budget.	IIIA2iii. 10/1/05
		IIIA2iv. Pending passage of 04 Clean Water Bond, oversee administration of bond funds by DEM for riparian buffer and other habitat restoration projects, in keeping with priorities established through state habitat restoration program.	IIIA2iv. Develop five-year plan for capital budget; develop process (RFP?) for administering restoration grants in accordance with capital budget and pursuant to priorities established by state habitat program.	IIIA2iv. Capital Budget by 10/1/04; RFP process by 8/31/05
IV. Economic Development	IVA. Redevelop target waterfront parcels in Providence, East Providence, the West Side of Aquidneck Island, and Quonset	IVA. Direct EDC to work with the municipalities to develop specific strategies.	IVA. Continue to participate by prioritizing Brownfields in the targeted areas, in particular emphasis on parcels in Providence and E. Providence.	Ongoing
	IVB. Stimulate the commercialization of marine biopharma & aquaculture-related science & technology	IVB. Direct EDC to work with the private sector and academic institutions including URI to develop a plan for a marine biosciences research and business facility on the Bay.		
	IVC. Develop a plan to significantly increase the level of marine trades activity within four years	IVC. Direct EDC to work with the Marine Trades Association to develop a plan to increase the level of marine trades.	IVC. Request to participate in this effort, given the environmental and public trust issues that we need to be taken into consideration.	Ongoing
	IVD. Feature an eco-tourism program	IVD. Direct EDC, DEM, CRMC and the RI Tourism Council to develop a plan that markets eco-tourism in the state.	IVD. Participate in the development of this plan.	
V. Monitoring	VA1. Monitoring Collaborative Form a monitoring council, and develop a comprehensive monitoring plan, data management system, and communications strategy.	VA1i. In accordance with new Comprehensive Marine Monitoring Act, establish a RI Monitoring Collaborative, as a component of the new Coordination Team. Drawing upon the recommendations of the Bay Commission, and acting through the Team, the Collaborative shall develop and implement a statewide monitoring strategy that addresses the management needs of the state; and also develop an integrated and reliable system of data consolidation, synthesis, documentation, and dissemination to citizens, scientists, resource managers, and decision-makers.	VA1i. DEM will complete a draft statewide water monitoring strategy by September 17, 2004. The draft strategy has been posted on the web. ( <a href="http://www.ci.uri.edu/Projects/RI-Monitoring/Docs/DEM_WQ_Mon.pdf">http://www.ci.uri.edu/Projects/RI-Monitoring/Docs/DEM_WQ_Mon.pdf</a> )	VA1i. 9/1/04 Completed
			VA1ii. The Monitoring Collaborative will review the plan in October. A final strategy needs to be approved by the Coordination Team by January 2005. Additional work is needed to clarify recommendations in selected areas such as non-invasive species etc.	VA1ii. 1/1/05
			VA1iii. DEM will coordinate on Bay Window initiatives to ensure all agency needs are met.	VA1iii. 11/1/04

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date	
V. Monitoring	VA1. Monitoring Collaborative Form a monitoring council, and develop a comprehensive monitoring plan, data management system, and communications strategy.	VA1ii. Direct DEM, in partnership with NEERS, NBC, URI, and Roger Williams University, to enhance the continuous, fixed station system in the Bay by increasing the number of stations from 7 to 10 this summer (Done).	VA1ii. Maintain stations throughout summer, and coordinate monitoring results with BART and Collaborative. S Kiernan /R. Greene to provide database management at NERRS plus run Greenwich Bay Site. C. Turner/ H. Travers to be central weekly data assessment from all buoy data to watch for problems and warn BART. C. Deacutis to provide assistance in Fall 2004 with 2005 planning.	VA1ii. Ongoing	
		VA1iii. Direct DEM to seek a portion of the \$1 million federal Bay Window grant to further increase the number of continuous, fixed monitoring stations to 13 next summer; and call upon the Collaborative to review the 2004 monitoring activities.	VA1iii. Provide summary of 04 monitoring activities to Collaborative; apply for grant and work with partners to add three more stations during summer of 05. The OWR and NBNERR supported the expansion of fixed station monitoring from 7 to 10 sites. The Greenwich Bay site was upgraded so it is now telemetered and provides real-time data. The Reserve coordinated training for all parties in the fixed Bay-wide water-monitoring project to insure all stations are using the same protocols. The next Bay Window grant will be FY 2006. There is no FY 2005 funding.	VA1iii. Summary by 1/1/05; 3 additional stations by 6/1/05	
	VA2. Bay Assessment & Response Team (BART) Establish a Bay Assessment & Response Team (BART)	VA2i. Direct DEM, in conjunction with DOH, to establish a "Bay Hotline" to provide a public service for reporting and receiving information about Bay conditions (Done – "Bay Line" initiated on 6/29/04).	VA2i. Maintain, update, and monitor phone line; respond to complaints and requests for information. Bay Hotline is operational, have received approximately 60 calls to date. The Plan is to maintain active operation through October 15 <sup>th</sup> , Reactivate on or about May 1 <sup>st</sup> . As of mid-Sept. the calls are starting to taper off.	VA2i. Ongoing	
		VA2ii. Issue a Memorandum of Understanding establishing the BART.	VA2ii. Develop an MOU based on the issuance of an executive order with the URI Coastal Institute. Coordinate with the Dept. of Administration, to facilitate the engagement of academic, technical, and scientific expertise on an as-needed basis. MOU completed, DEM has the ability to retain scientific expertise through the Coastal Institute real time as needed	VA2ii. 7/6/04 Completed	
			VA2iii. Be prepared to implement BART this summer.	VA2iii. Maintain readiness to lead and administer BART on an as-needed basis. Ongoing, activated for response to Hydrogen Sulfide odors and clam kill in Conimicut. A Ganz to provide D.O. surveys Greenwich Bay and kill response. M. Berman NOAA NMFS to provide monthly D.O. and channel surveys of main Bay channels – 2004 and 2005.	VA2iii. Ongoing
			VA2iv. Direct DEM, and DOH, in consultation with CRMC, to establish standard procedures for monitoring air quality, notifying the public, and assisting coastal communities with the disposal of odor-causing seaweed and organic waste deposited on coastal shorelines.	VA2iv. Meet with local officials to enlist community support for joint response activities. Develop air quality monitoring procedures. Met with communities of concern, conducted joint response activities in Warwick. Air monitoring procedures have been standardized, however a formal SOP has not been developed.	VA2iv. 8/1/04
		VA2v. Direct the Resource Recovery Corporation to accept seaweed and organic waste collected from RI's coastal shorelines at the landfill, at no cost, and to manage the waste in a manner that controls odors and complies with applicable solid waste regulations.	VA2v. Coordinate with Resource Recovery Corporation to arrange for the disposal of shoreline waste. Contact the RIRRC to determine why Warwick was charged for disposal: seek credit on city's behalf.	30.10/1/04	



**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR’S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date
VI. Inter-State Cooperation & Coordination	VIA. Negotiate multi-state agreement with Massachusetts & Connecticut	VIA. On March 29, letters were sent to the Governors of Massachusetts and Connecticut proposing a multi-state agreement and noted the appointment of Governor Garrahy as Rhode Island’s Chief Negotiator. Former Governor Rowland responded, expressing Connecticut’s interest in continuing negotiations with the Commissioner of Environmental Protection, Arthur Rocque, as negotiator.	VIA. Provide any assistance that might be needed by Governor Garrahy, who will negotiate multi-state agreement with Massachusetts and Connecticut. The status of the initiative will be discussed at the October meeting of the Coordination Team	VIA. MOU finalized by 12/1/04
	VIB. Develop a framework for regular coordination of federal grant applications on projects that impact regional environmental concerns and identify or structure initiatives that can attract new federal funding	VIB. Direct DEM to work with Massachusetts to coordinate, cooperate and communicate on NPDES, TMDL, and monitoring issues in the watershed.	VIB. Meet with Massachusetts’s environmental officials to discuss multi-state watershed issues [First meeting held on 7/17; schedule follow-up meetings]. DEM will continue to coordinate with Massachusetts and other stakeholders in the Blackstone Valley Watershed initiative. DEM will continue to coordinate implementation of TMDL projects that impact both states.	VIB. Ongoing
VII. Fisheries & Aquaculture	VIIA. Establish Cooperative Fisheries Resources Program with signed MOU that immediately assesses the existing research programs and integrates increased DEM/URI/Industry cooperation, collaboration, and communication	VIIA. Direct DEM and URI to develop a Memorandum of Understanding with the commercial fishing industry regarding cooperative research and report on the shortfalls and needs in fisheries research.	VIIA. Develop draft MOU and meet with key parties to discuss (Done as of 7/2). Finalize and sign MOU. Develop report on the shortfalls and needs in fisheries research. First meeting was held on June 10 <sup>th</sup> to review draft MOU. Meeting went off topic and little was accomplished relative to draft improvements. Comments provided by M. Gibson and D. Borden on draft MOU to Director’s office on June 28 <sup>th</sup> . Second meeting scheduled for July 2 was cancelled for lack of agenda and revised draft MOU. Next step needed is to incorporate agency, industry, and URI comments into a revised draft. A second or third meeting is needed to finalize and sign MOU.	VIIA. Finalize MOU by 8/1/04; Prepare report by 1/1/05
	VIIB. Investigate the use of increased shellfish production and harvest, through some combination of public and private aquaculture; and continue the cooperation and dialogue that can lead to increased aquaculture production in the state	VIIBi. Direct EDC to offer low interest loans for startup commercial aquaculture ventures.	VIIBi. EDC lead	VIIBi.
		VIIBii. 35. Direct CRMC and DEM, in consultation with the RI Marine Fisheries Council, the aquaculture industry, and coastal communities, to develop a comprehensive detailed map of Narragansett Bay and salt ponds delineating suitable locations for shellfish aquaculture leases. Such a map would need to consider user conflicts and the existing commercial shellfish wild harvest interests.	VIIBii. Work with CRMC and other partners to develop map. DEM and CRMC staff has determined that extensive maps already exist. These maps, which can be viewed at <a href="http://www.edu.uri.edu/fish/maps.html">www.edu.uri.edu/fish/maps.html</a> were jointly produced by CRMC, URI, DEM, and industry stakeholders. These maps document areas of Narragansett Bay used by various user groups. Regulators as well as potential applicants for aquaculture leases refer to these maps to identify potential user conflicts. Further discussions of potential conflicts are addressed in a site predetermination meeting with the applicant. DEM Fish and Wildlife staff refers to these maps when advising the RI Marine Fisheries Council and CRMC Chair M. Tikoian has emphasized the utility of these maps in the aquaculture sighting process in his August 25 <sup>th</sup> letter to Governor Garrahy. No further action on this item is needed unless there was an intent to zone the Bay for possible aquaculture sites, which neither DEM or CRMC support due to the high cost and inevitability of significant user conflict.	VIIBii. Map completed.

**APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS**

Issue	Recommendation	Action	DEM Response / Status	Due Date
		<b>VIIIBiii. Direct DEM to review its Shellfish program to determine the financial needs to purchase and grow significant quantities of shellfish (quahogs and oysters) seed stock for release into public waters.</b>	VIIIBiii. Prepare a report regarding financial needs. DEM Fish and Wildlife marine staff has produced a draft white paper and reviewed the performance of several projects involving seeding. Industry attempts to produce seed via upwellers at marinas have failed. The North Cape Oil Spill Project and the Roger Williams College cooperative study with industry have been in operation for several years. Both projects have experience high mortality rates, low growth, and high per unit production costs. The Division will review the findings of the RWC project. At this point, Marine Fisheries is recommending that no large-scale investment be made in a seed production program until technological deficiencies have been overcome.	<b>VIIIBiii. 10/1/04</b>
		<b>VIIIBiv. Direct EDC to produce a report on the economic value to the state from recreation and commercial fishing activities.</b>	<b>VIIIBiv. Assist EDC with development of report.</b>	<b>VIIIBiv. EDC lead</b>
VII. Fisheries & Aquaculture (continued)		<b>VIIIBv. Direct EDC to sponsor an aquaculture summit bringing together the aquaculture, commercial and recreational fishing interests, as well as the appropriate regulatory agencies, to discuss strategies to increase public and private aquaculture ventures.</b>	<b>VIIIBv. Participate in summit.</b>	<b>VIIIBv. EDC lead.</b>
VIII. Public Access & Recreation	<b>VIIIA. Re-evaluate reinstatement of previously existing Bay Islands Park System</b>	VIIIA. Direct DEM to seek approval to reprogram a \$360,000 NOAA grant to enhance access to and use of Prudence Island Reserve facilities by the public, and augment it by another \$100,000 from DEM. This will be used to Rebuild and improve accessibility of the t-wharf to boaters and use as a fishing pier; Upgrade and expand educational building at reserve for more exhibits and public education opportunities; and <b>Build a new handicap accessible composting toilet facility.</b>	<b>VIIIA. The Reserve requested the \$360K NOAA construction grant be reprogrammed for Prudence Island dock improvements and projects that will enhance public use of the Island facilities. The Reserve has received informal approval of this request. Funding has been set aside to construct a composting toilet.</b>	<b>VIIIA. Completion Date - FY 2006 at the earliest.</b>
	<b>VIIIB. Improve public transpiration to existing state parks</b>	<b>VIIIB. Direct DOT, through its Enhancement Program, and RIPTA to explore opportunities to establish shuttle service within major state parts that can be connected to current or altered RIPTA route.</b>	<b>VIIIB. DOT will explore opportunities to establish shuttle service within major state parks that can be connected to current or altered RIPTA routes.</b>	<b>VIIIB. DOT lead</b>
	<b>VIIIC. Improve and expand shoreline access for various recreational activities</b>	<b>VIIIC. Direct DEM to use \$75,000 from its capital budget for a feasibility study to determine potential development scenarios at up to 12 identified shoreline access sites, including fishing piers.</b>	<b>VIIIC. DEM will undertake a feasibility study. Bids are out now for consultant services. Consultant should be hired in November. Report should be finalized by 5/31/05</b>	<b>41.5/31/05</b>

## APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS

### Appendix to DEM Response to the Governor's Initiative on Narragansett Bay and Watersheds

#### HEALTH/DEM Recommendations for Problem Beaches

##### Scarborough State Beach

Based upon the number of individuals impacted, it is recommended that the issues at Scarborough State Beach be addressed immediately.

Closures in 2003 4 Closures Totaling 6 Days

Issues Storm water

Actions DEM and HEALTH have conducted an extensive sanitary survey at this facility. Three storm water discharges have been identified as the source of contamination at the beach. DEM and HEALTH are conducting a limited microbial source-tracking project in this area to determine the source of bacteria. Action has been taken by DEM, HEALTH, and the Town of Narragansett to correct sewage disposal problems at a campground on Burnside Avenue.

Recommendations: Complete the bacteria source-tracking project. Concurrently, RIDOT and the Town should conduct a feasibility study to identify options for reducing, treating or relocating storm water discharges. RIDOT and the Town should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly, illicit discharge detection and elimination, mapping of outfalls and public education.

Update DOT has completed construction of a stormwater treatment system in the three-stormwater discharges along Scarborough State Beach. DOT is testing the outfalls for successful reduction of bacteria entering the bathing area. HEALTH is testing the five sample stations along the beach, in coordination with the DOT pipe sampling. Sampling will conclude on approx. 11/1/2004.

##### Easton's Beach

Closures in 2003 2 Closures Totaling 3 Days

Issues Pump Station, Storm water, Waterfowl

Actions DEM and the Town of Middletown are working to correct problems at the Wave Avenue pump station, which experienced a pump failure during the 2003 swimming season. Middletown has completed an I/I Study and determined what repairs are needed in the tributary sewer system to address the Pump Station overflows. HEALTH has conducted a sanitary survey at this facility. Large populations of waterfowl and storm water discharges were observed.

Recommendations: DEM will work with the Town of Middletown to correct problems at the Wave Avenue pump station. Middletown should complete the recommended repairs and, once the cause of the overflows is addressed, the Town should block the overflow pipe. If sufficient flow is not removed it may be necessary to upgrade the pump station. HEALTH and DEM will conduct wet weather sampling to assess storm water effects on the beach. HEALTH and DEM will attempt to identify potential sources of bacteria during these wet weather events. Newport and Middletown should prioritize implementation of the RIPDES Phase II storm water requirements in this area, particularly illicit discharge detection and elimination, mapping of outfalls and public education. To eliminate waterfowl food sources, the extensive piles of seaweed (which can lead to high levels of fecal coliform) and trash should be removed from this beach.

Update HEALTH and DEM are conducting wet weather sampling of the drainage system affecting Easton's Beach and the Atlantic Beach Club. Several priority pipes have been identified and an investigation is ongoing. The City of Newport has begun identifying and attempting to eliminate sources of pollution in the 11 outfalls entering the moat surrounding Easton's Pond. Many raccoons have been found in these pipes, DEM has been working with Newport to assist in the removal of these animals. The Town of Middletown is smoke and dye testing residences and sewer lines to ensure connection, identify cross-connections, and any faulty lines throughout the area. They have identified a house, within 500 feet of the beach that was not properly connected to the sewer system. Furthermore, they have committed to making any physical changes needed to correct any pollution sources affecting Easton's Beach.

##### The 12 Most Closed Beaches Since 1998

##### Warren Town Beach

Closures in 2003 4 Closures Totaling 78 Days

Issues Storm water, Warren/Palmer River, Boat Discharges, Waterfowl, Treatment Plant, Industrial and residential sources

Actions A cooperative effort between HEALTH, DEM, and the Town of Warren identified a possible cause to the storm water issue at this facility. A fecal coliform level of 410,000 cfu's/100mL was recorded in the storm drain in the center of this beach. A 12" overflow from the forced main sewer line was found to be in disrepair and possibly leaking into the storm drain. The Town of Warren slip-lined the 12" overflow to eliminate sewage as a possible source of bacteria contamination at this facility. HEALTH has conducted sampling during several wet weather events in the Fall of 2003 and found the bacteria counts had been reduced dramatically. DEM developed a water quality model and completed water quality restoration plan (TMDLs) for the Palmer and Runnins Rivers in 2002. In addition to the local sources that impact the beach, the water quality model indicated that wet weather sources of bacteria in the upper Palmer River (i.e. north of Rt. 6), and the Runnins River (School Street) play a central role in the elevated bacterial levels observed in the lower Warren River.

Recommendations: While the condition has improved, the potential for closure exists as long as there is a storm water discharge on Warren Town Beach. It is recommended that the feasibility of eliminating, reducing relocating or treating the storm water discharge be evaluated. Additional recommendations would include: implementation of the attached recommendations regarding State's "No Discharge" Law, enforcement of a "Do Not Feed the Birds" policy (DEM Hunting Regulations 14.13), more active enforcement of the Town's pet waste ordinance, and removal of food sources for wildlife (trash, etc). The Towns of Warren and Swansea, and private property owners must continue to implement controls outlined in the Palmer and Runnins Rivers TMDLs. Funding may be available through the Farm Bill to assist farmers with implementation of BMPs. Towns of Warren and Swansea should prioritize implementation of the RIPDES/NPDES Phase II storm water requirements in this area particularly, illicit discharge detection and elimination, mapping of outfalls and public education. HEALTH will conduct additional wet weather sampling to determine impacts of upstream bacteria sources.

Update No closures were reported at Warren Town Beach during the 2004-bathing season. All issues with the sewer line appear to be corrected. HEALTH has contacted the Warren Town Administrator in regard to the storm water discharge at the facility. HEALTH has passed along information about the SmartSponge to Warren; this product was designed for an application similar to Warren Town Beach. Warren has contacted the representative and is exploring the use of this technology.

## APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS

### Conimicut Point Beach

Closures in 2003 5 Closures Totaling 67 Days  
 Issues CSOs, Waterfowl  
 Actions Monitoring by DEM in 1997 and 1998 suggest that CSOs may be affecting bacteria levels in the area but given that water quality standards were not violated at the offshore sites, CSOs do not appear to account for bacteria elevations at the beach leading to the closures. These data suggest that local sources on the beach face may exert a greater influence than CSOs. HEALTH has performed a sanitary survey at this facility and no direct sources have been found. Sampling efforts have not identified the source of pollution at this beach.

Recommendations The contrast between existing offshore and bathing zone data suggests that sampling be refocused to further localize the sources causing the elevations seen at Conimicut Point. Further monitoring that combines sampling in the bathing zone with additional offshore and nearshore stations that extend up to Greene Island and inside Occupessatuxet Cove is recommended. Waterfowl on the beach and in the vicinity of Greene Island may be contributors whose influence could be significant. The use of bacterial source tracking may be useful in defining the host species. Similar problems may exist at other beaches, including Goddard Park, Barrington, and Bristol Town Beach.

#### Update

### Oakland Beach

Closures in 2003 3 Closures Totaling 66 Days  
 Issues Storm water, Boat Discharges, Waterfowl  
 Actions HEALTH has performed a sanitary survey at this facility and multiple storm water discharges were observed. The cause of closures at this facility are a Greenwich Bay wide issue, the entire Greenwich Bay watershed has storm water problems. DEM is in the process of developing a TMDL for Greenwich Bay. CRMC, along with HEALTH, DEM, the City of Warwick, the Town of East Greenwich, and URI/Sea Grant, are developing a Special Area Management Plan for the Greenwich Bay Watershed.

Recommendations: It is recommended that the City of Warwick continue its commitment to implementing storm water controls and eliminating septic systems impacts through mandatory tie-ins. Furthermore, support for the implementation of the Greenwich Bay TMDL and Special Area Management Plan will help improve conditions in Greenwich Bay. In particular, abatement of storm water discharges to Southern and Tuscatucket Brooks should be a priority. Additional recommendations would include: implementation of the attached recommendations regarding the State's "No Discharge" Law (Warwick Harbormaster), enforcement of a "Do Not Feed the Birds" policy (HR 14.13), and removal of food sources (trash, etc.) for wildlife (Warwick Parks and Recreation). Warwick and East Greenwich should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly illicit discharge detection and elimination, mapping of outfalls and public education.

Update HEALTH and DEM met with Warwick Parks and Recreation Director Michael Rooney to discuss the feeding of waterfowl and public outreach. Mr. Rooney agreed to distribute brochures, developed by DEM, to visitors of Warwick's public beaches. HEALTH had the brochures printed and delivered 4,000 brochures to the City of Warwick. Signage for the four Warwick beaches is being developed by DEM and HEALTH.

In addition, HEALTH has been actively participating in the SAMP. A final draft of this document should be completed by the start of the 2005 bathing season.

### Barrington Town Beach

Closures in 2003 4 Closures Totaling 28 Days  
 Issues CSOs, Storm water, Waterfowl  
 Actions As with Conimicut Beach, CSOs may be a factor, but are not believed to account for the closures. HEALTH has performed a sanitary survey of this facility and multiple concentrated flow paths of storm water were observed. Large populations of waterfowl were also observed congregating on this beach.

Recommendations Further monitoring that combines sampling in the bathing zone with additional offshore and nearshore stations is recommended. The sampling should account for local stormwater runoff, waterfowl, and offshore effects. Adoption and enforcement of a "Do Not Feed the Birds" policy (HR 14.13) and removal of food sources (trash, etc) for wildlife (Town of Barrington). Barrington should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly illicit discharge detection and elimination, mapping of outfalls and public education.

### Bristol Town Beach

Closures in 2003 3 Closures Totaling 26 Days  
 Issues CSOs, Storm water, Waterfowl  
 Actions As with Conimicut and Barrington Beaches, CSOs may be a factor, but are not believed to account for the closures. HEALTH has performed a sanitary survey of this facility and storm water from a wetland swale (24,000 cfu's/100mL) has been identified as an issue. Large populations of waterfowl were also observed congregating on this beach.

Recommendations Monitoring is recommended that combines sampling in the bathing zone with additional offshore and nearshore stations The sampling should account for local stormwater runoff, waterfowl, and offshore effects. HEALTH and DEM will determine source of high bacteria in the wetland swale. Control the waterfowl population at this beach through the elimination of food sources (trash, shells in wrack, etc.) (Town of Bristol). Pet waste clean up should be enforced at the beach and in surrounding park (Colt State Park) lands. The Town of Bristol should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly illicit discharge detection and elimination, mapping of outfalls and public education.

#### Update

### King Park Swim Area, Newport

Closures in 2003 7 Closures Totaling 26 Days

## APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS

Issues	CSO, Boat Discharges, Waterfowl, Storm water
Actions	HEALTH has preformed a sanitary survey at this facility, CSOs, boat discharges, and waterfowl were identified as the major contributors to water quality problems. DEM is working with Earth Tech and the City of Newport to correct CSO violations. Newport installed pipes to separate storm water and sewage back in the 1980's, which should have reduced CSO discharge volume. The City/Earth Tech have recently made improvements to the Wellington Ave. Pump Station and the City will be doing an engineering study to determine how much additional work is needed to complete the sewer separation in this area. The City is also in the process of developing a Long Term Control Plan to address CSOs, in general. The City of Newport has boarded, inspected, and in the case of violations fined boaters for not complying with the State's "No Discharge" Law
Recommendations	It is recommended that the City of Newport take actions to eliminate the CSO discharges that cause the preemptive closure of King Park Swim Area. Additional recommendations include: implementation of the attached recommendations regarding the "No Discharge" Law. Actions must be taken to control the waterfowl population (City of Newport) and assess storm water impacts at this facility (HEALTH and DEM). Newport should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly illicit discharge detection and elimination, mapping of outfalls and public education.
Update	The City of Newport has closed King Park Swim Area as a public bathing area because of budget cuts (7/1/2004). DEM has been working with the City of Newport's contractor Earth Tech to reduce the number of discharges at the Wellington Ave. pump station. Controls were implemented and a large reduction in discharge volume was realized in the 2004-bathing season.
<b>City Park Beach, Warwick</b>	
Closures in 2003	4 Closures Totaling 23 Days
Issues	Storm water
Actions	HEALTH conducted a sanitary survey at this facility and several pipes and concentrated flow paths were noted. DEM is in the process of developing a TMDL for this area. CRMC, along with HEALTH, DEM, the City of Warwick, the Town of East Greenwich, and URI/Sea Grant, are developing a Special Area Management Plan for the Greenwich Bay Watershed.
Recommendations	It is recommended that the City of Warwick continue its commitment to implementing storm water controls and eliminating septic systems impacts through mandatory tie-ins. Furthermore, support for the implementation of the Greenwich Bay TMDL and Special Area Management Plan will help improve conditions in Greenwich Bay. In particular, abatement of storm water discharges to Southern and Tuscagetuck Brooks should be a priority. Implementation of the attached recommendations regarding the "NO Discharge" Law is also recommended. Warwick and East Greenwich should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly illicit discharge detection and elimination, mapping of outfalls and public education. Control the waterfowl/wildlife population at this beach through the elimination of food sources (trash, shells in wrack, etc.).
Update	UPDATE – HEALTH and DEM met with Warwick Parks and Recreation Director Michael Rooney to discuss the feeding of waterfowl and public outreach. Mr. Rooney agreed to distribute brochures, developed by DEM, to visitors of Warwick's public beaches. HEALTH had the brochures printed and delivered 4,000 brochures to the City of Warwick. Signage for the four Warwick beaches is being developed by DEM and HEALTH. In addition, HEALTH has been actively participating in the SAMP. A final draft of this document should be completed by the start of the 2005 bathing season.
<b>Gorton Pond, Warwick</b>	
Closures in 2003	3 Closures Totaling 22 Days
Issues	Storm water, Waterfowl
Actions	Storm water Best Management Practices (BMPs) were implemented in this area in the early 1990's.
Recommendations	Evaluate BMPs to see how effectively they are dealing with bacteria in storm water. Develop an effective wildlife management plan. Warwick should prioritize implementation of the RIPDES Phase II storm water requirements in this area particularly, illicit discharge detection and elimination, mapping of outfalls and public education.
Update	HEALTH and DEM met with Warwick Parks and Recreation Director Michael Rooney to discuss the feeding of waterfowl and public outreach. Mr. Rooney agreed to distribute brochures, developed by DEM, to visitors of Warwick's public beaches. HEALTH had the brochures printed and delivered 4,000 brochures to the City of Warwick. Signage for the four Warwick beaches is being developed by DEM and HEALTH.
<b>Goddard Park State Park, Warwick</b>	
Closures in 2003	5 Closures Totaling 21 Days
Issues	Storm water, Boat Discharges, Waterfowl
Actions	DEM and HEALTH conducted a joint sanitary survey of this facility. Few significant storm water sources were identified; storm water is a Greenwich Bay wide issue. Also, DEM is in the process of developing a TMDL for this area. CRMC, along with HEALTH, DEM, the City of Warwick, the Town of East Greenwich, and URI/Sea Grant, are developing a Special Area Management Plan for the Greenwich Bay Watershed.
Recommendations	The bacterial sources to Goddard are probably gulls/waterfowl and urban stormwater from Greenwich and Apponaug Coves. It is recommended that the City of Warwick continue its commitment to implementing storm water controls and eliminating septic systems impacts through mandatory tie-ins. Furthermore, support for the implementation of the Greenwich Bay TMDL and Special Area Management Plan will help improve conditions in Greenwich Bay. Additional recommendations would include: implementation of the attached recommendations regarding the State's "No Discharge" Law (Warwick/East Greenwich Harbormasters), enforcement of a "Do Not Feed the Birds" policy (HR 14.13), and removal of food sources for wildlife (trash, etc) (DEM Parks and Rec. Staff).
Update	
<b>Kent County YMCA</b>	
Closures in 2003	2 Closures Totaling 11 Days
Issues	Wildlife, Circulation
Actions	HEALTH and DEM have conducted a joint sanitary survey of this facility. No direct sources of pollution were observed.
Recommendations	Identify the source of the bacteria contribution at this facility.

## APPENDIX A - DEM RESPONSE PLAN TO THE GOVERNOR'S INITIATIVE ON NARRAGANSETT BAY AND WATERSHEDS

Update

### Lincoln Woods State Park, Lincoln

Closures in 2003      2 Closures Totaling 5 Days  
 Issues                      Waterfowl, Sediment, Circulation, Bather Load  
 Actions                     DEM has studied Olney Pond extensively and Parks and Recreation have attempted to control the Canada Goose population at this facility.  
 Recommendations      DEM needs to develop a more effective plan to manage waterfowl, as well as a plan to improve water quality through this bathing area. The plan should consider removing contaminated sediment from the bathing area and increasing fresh water intake into the pond. Bather load/density may also need to be controlled at this facility.

Update

### Third Beach, Newport

Closures in 2003      1 Closure Totaling 2 Days  
 Issues                      Wildlife, Unknown  
 Actions                     DEM and HEALTH conducted an extensive watershed survey at this facility. DEM cited several violations and actions are ongoing. DEM and HEALTH are conducting a limited microbial source-tracking project in this area to determine the source of bacteria.  
  
 Recommendations      Upon receipt of source tracking results determine if additional investigation is required. BMPs will need to be implemented for non-wildlife sources. If wildlife is determined to be the most significant source, the impacted section of the beach may need to be permanently closed to swimming.  
 UPDATE                    HEALTH and DEM conducted a limited DNA source tracking study in this area. The vast majority of sources identified were wildlife. DEM has closed their investigation. DEM and HEALTH met with Middletown officials to discuss next actions. It was decided that this area would be closed to swimming and the Town will work to better restrict public access to the mouth of the Maidford R.

### General Recommendations

Waterfowl/Wildlife Management  
 A more effective means of controlling waterfowl populations needs to be developed - starting with the clear communication and enforcement of the No Feeding the Birds law  
 Beaches need to be cleaned nightly to eliminate food sources for wildlife  
 Implement the recommendations regarding the State's "No Discharge" Law  
 Prioritize implementation of Phase II Storm water Management Plans, and in particular illicit discharge detection and elimination, mapping of outfalls, and public education - for those outfalls discharging on or near beaches and in other areas, identified as impacting beach water quality.  
 Pursue microbial source tracking to identify sources of bacteria contamination statewide.

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