



**State of Rhode Island  
Department of Environmental Management  
235 Promenade Street  
Providence, RI 02908-5767  
<http://www.state.ri.us/dem>**

# **Work Plan Progress Report Fiscal Year 2001**

**October 2001**

Printed on Recycled Paper, 30% post-consumer  
Using recycled toner cartridge

## INTRODUCTION

This is the Department's Progress Report for the State Fiscal Year 2001 (July 1, 2000 to June 30, 2001). It covers the second half of the Department's first two-year work plan, the Department's first effort to define objectives, performance measures and indicators for the Department's seven main goals. Some objectives may have had overly ambitious timelines, new issues have arisen that have taken precedence over planned activities, and new information has led to revised tasks. Accordingly, there have been adjustments and refinements over the past two years.

The seven goals that are the focus of the work plan are: open and effective government, clean air; clean water; livable communities; healthy ecosystems; abundant open space and recreational opportunities; and natural resource-based industries. Major progress toward each of the goals is described on the following pages with some highlights below.

**Meeting targets** - Some significant targets were met, for commercial fisheries, sustainable watersheds, and asset management plans, for example, but there were delays in many areas. Competing priorities, reprogramming efforts, short staffing, and budget constraints caused some delays. Failure of proposed legislation was the cause of other delayed actions, notably for the dam program. Factors such as weather and emissions from other states impeded efforts to meet targets such as the ozone standard.

**Partnerships** - The Department continues to build partnerships with many agencies and organizations, governmental, private, and non-profit. Each of the highlighted activities below depends upon good working relationships and shared responsibilities with many partners. These partnerships are so critical to success in meeting objectives that progress in the programs discussed below is not possible without them.

**Ozone** - emissions exceeded 8 hour federal standard 18 times on 15 days. Violations of the one-hour standard require the state to file an attainment plan to achieve that federal standard.

**Greenhouse Gas/Energy Policy.** The Department initiated and coordinates development of a greenhouse gas action plan for the state, working with the Governor's Office, the State Energy Office, and numerous stakeholders from other state agencies, private industry, utilities, environmental groups, and others. The project is back on track after a delay to raise funds and to hire technical and facilitation consultants. Stakeholder and working group meetings will resume in Fall 2001. This project will be completed in April 2003. To follow the project online, see [www.raabassociates.org](http://www.raabassociates.org).

**Dams** – All work has been delayed since enabling legislation was not adopted. The Department is trying to accomplish some of the tasks such as permitting and registration requirements through non-statutory procedures and is working with partners on revised legislation.

**Dredging** – Conducted reviews of the studies submitted by the Army Corps of Engineers for the Environmental Impact Statement for the Providence River Dredging Project. The Department issued comments focused on dredging windows and sequencing; mixing zones and monitoring; the preferred alternative and Spar Island; dissolved oxygen; and non-federal dredging applicants in October 2001.

**Environmental Equity** - The Department has published a draft Environmental Equity Policy and has identified specific actions to implement the policy and to gain the active participation of historically underserved populations. DEM has an internal workgroup and a work plan to address environmental equity issues, and will convene an external advisory committee to work with us on the implementation of the policy.

## INTRODUCTION

**Open space preservation/land acquisition** – Many entities in Rhode Island preserve land through purchase of properties or acquisition of development rights. The total land preserved through governmental, non-profit agencies and local land trusts in FY2001 was 3487 acres, exceeding the target of 3000 acres. The Department acquired 1231 acres.

**Asset management** - The Department published the Parks and Beaches plan and drafted the Forestry plan. We began implementing the plans through revised operations and capital budget requests to address \$10 million in high priority replacement and repair projects, and will explore new methods for raising revenue in FY2002.

### **Sustainable Watersheds/Planning for Growth/Local Capacity.**

Watershed Action Plans have been completed for the South County and Woonasquatucket Watersheds, the Department is providing a coordinator for the Blackstone watershed. Funding is needed for Pawtuxet coordinator.

The Governor's Growth Planning Council, co-chaired by Governor Almond and DEM Director Reitsma, issued its First Annual Report in early August. The Council, established in 2000, was charged with examining the economic, environmental, and social impacts of Rhode Island's development patterns. The report includes recommendations to strengthen state programs that affect various growth patterns. Copies of the report are online at [www.state.ri.us/dem/programs/bpoladm/suswshed/gpc.htm](http://www.state.ri.us/dem/programs/bpoladm/suswshed/gpc.htm).

The purpose of the **South County Planning Assistance Project** is to provide communities with creative ways to plan for growth while protecting their environment and community character. The project published four print publications and a web-based tool. DEM, with its partners (Washington County Regional Planning Council, RI Rural Lands Coalition, South County Watersheds Partnership, University of Rhode Island, and South County Communities) produced the following elements:

- South County Design Manual
- Model Land Use Ordinances
- Strategies to Maintain Forests and Farms
- Site Assessment Guide
- Transfer of Development Rights

The Site Assessment Guide is online at [www.edc.uri/cewg/rapid/](http://www.edc.uri/cewg/rapid/), and the other elements may be downloaded for free at [www.state.ri.us/dem/programs/bpoladm/suswshed/sctpap.htm](http://www.state.ri.us/dem/programs/bpoladm/suswshed/sctpap.htm).

### **Promoting sustainable economic activity –**

**Fisheries:** An Intergovernmental Working Group (including the Governor, House, and Senate) requested that the Coastal Institute at URI serve as a neutral venue where the fishing industry, resource managers, academic experts, political leaders, and the public meet to discuss the state of commercial fisheries in RI. Phase 1 of the project resulted in a list of options in April of 2001 to resolve the moratorium. In Phase 2 the group will identify potential statutory changes for the 2002 legislative session that would address specific issues such as data acquisition, recreational licensing, and specific fisheries (lobster, shellfish, finfish, and aquaculture). The report is online at [www.ci.uri.edu/projects/rifish](http://www.ci.uri.edu/projects/rifish).

## INTRODUCTION

**Farm Viability** – The Department obtained a federal grant and established a Farm Viability Program Committee that began work in September.

**Water Quality Restoration** – The Department has completed 3 Water Quality Restoration Plans (WQRPs) and has published 2 for public comment, while working on over a dozen additional plans. Although each subwatershed is unique, the average time to develop a WQRP for an average watershed in RI is 96 weeks, after an average of 6 months of monitoring to characterize the current conditions and identify sources of pollution to a waterbody.

After a WQRP is completed, local organizations and municipalities implement recommendations by building partnerships, obtaining funding, and carrying out the activities identified in the WQRP. It will take some time to see measurable water quality improvements resulting from WQRPs.

**Habitat Restoration** - Many agencies have come together to form the Partnership for Narragansett Bay (PNB), a major recommendation of the Bay Summit held in June of 2000. The PNB's mission is to serve as a continuing forum to build consensus regarding the future of Narragansett Bay, grounded in good science, and shaped by the widest possible public input.

**Brownfields** - Department efforts led to the cleanup of 53 acres last year, bringing the total acreage cleaned up to 605. The Department is working with the Economic Development Corporation and stakeholders to market properties that have been cleaned up. Economic Indicator statistics for properties that were redeveloped under Settlement Agreements with Covenants Not to Sue (SACNS) negotiated by the Department show an increase of \$300,000 in the total assessed value of properties with SACNS, and 948 new jobs as a result of the re-use of these properties.

## CLEAN AIR

Planned for 2 <sup>nd</sup> Half FY2000-2001 Work Plan	Accomplished FY2001
<p><b>Ozone and particulates</b></p> <p><i>Ozone</i></p> <ul style="list-style-type: none"> <li>Maintain aggressive ozone abatement program to meet federal ozone standard by 2007 date.</li> <li>Heavy duty diesel Regulations:</li> <li>Draft heavy-duty diesel regulations.</li> <li>Start on-road testing January 2001.</li> <li>Inspect 350 gasoline recovery systems.</li> </ul> <p><i>Fine particulates (PM 2.5)</i></p> <ul style="list-style-type: none"> <li>Use monitoring results to determine if more action is needed in 2002.</li> <li>Begin continuous monitoring at two new sites.</li> <li>Continue intermittent monitoring at 6 sites.</li> <li>Begin to analyze for fine particle components (carbon, sulfates, nitrates, and metals).</li> </ul>	<p><b>Ozone and particulates</b></p> <p><i>Ozone</i></p> <ul style="list-style-type: none"> <li>Program ongoing, Ozone emissions exceeded the 8-hour standard on 15 days through September 30, 2001. Violations of the one-hour standard now require RI to submit an ozone attainment demonstration.</li> <li>Promulgation of regulations delayed due to delayed passage of enabling legislation. New target date: Fall 2001.</li> <li>On-road testing to begin spring 2002.</li> <li>Inspected 208 gasoline recovery systems due to loss of staff halfway through the fiscal year.</li> </ul> <p><i>Fine particulates (PM 2.5)</i></p> <ul style="list-style-type: none"> <li>More analysis needed to determine if health warnings should be issued for fine particulates.</li> <li>Problems with equipment acquisition delayed monitoring until Fall 2001.</li> <li>Continuing.</li> <li>Monitoring of selected pollutants delayed due to equipment acquisition delays.</li> </ul>
<p><b>AirToxics</b></p> <p>One-year \$500,000 grant:</p> <ul style="list-style-type: none"> <li>Conduct monitoring for toxics (metals, and includes PM10 particulates) for one year.</li> <li>Finalize regulations to target risk management and accidental release programs to minimize exposure of public to air pollution from large users of toxic materials. Promulgate regulations by March 2001.</li> <li>Work with hospitals to upgrade or close medical waste incinerators by August 2001 to significantly reduce emissions of mercury and air toxics.</li> </ul>	<p><b>AirToxics</b></p> <ul style="list-style-type: none"> <li>Four monitors installed for toxics; one to remain in place for another year; one to be moved to a new site.</li> <li>Promulgation of regulations moved to December 2002 due to the complexity of issues and competing priorities.</li> <li>See Livable Communities.</li> <li>All four medical waste incinerators have been closed. However, one was converted to a pathological waste incinerator.</li> </ul>
<p><b>Greenhouse Gas</b></p> <p>Work with RI and regional stakeholders to develop a framework for a greenhouse gas action plan to reduce emissions and increase competitiveness through energy efficiency and alternative transportation. Target: framework April 2001, action plan April 2002.</p>	<p><b>Greenhouse Gas</b></p> <p>New target date for Action Plan completion April 2003. Project on track after delays in raising funds, hiring consultants.</p> <ul style="list-style-type: none"> <li>Completed work plan.</li> <li>Hired consultants to conduct modeling, facilitate stakeholder process.</li> <li>Obtained full funding for 2-year project.</li> <li>Stakeholder process to begin Fall 2001.</li> </ul>

## CLEAN WATER

Planned for 2 <sup>nd</sup> half FY2000-2001 Work Plan	Accomplished FY 2001
<p><b>Abating bacterial contamination and excess nutrient enrichment</b></p> <p><i>Water quality restoration Plans (WQRPS)</i></p> <ul style="list-style-type: none"> <li>• Finalize WQRPS (complete draft, publish for public comment, EPA approval received) by December 2000 for: Barrington, Runnins, and Hunt Rivers; Scrabletown Brook and Fry Brook.</li> <li>• Finalize WQRPS by September 2001 for: Narrow River, Gilbert Stuart Brook, Palmer River; Sakonnet River, /Island Park Cove; Kickemuit Reservoir; Saugatucket River and Pond; Mitchell and Rocky Brooks; Ninigret and Green Hill Ponds.</li> <li>• Continue restoration efforts for Stafford Pond, Barrington and Runnins Rivers.</li> <li>• Continue development of TMDLs that will be completed beyond September 2001: Providence &amp; Seekonk Rivers, Greenwich Bay, its tributaries and coves (Hardig Brook, Buttonwoods, Brushneck, Apponaug, Warwick, and Greenwich Coves), Woonasquatucket River, Blackstone River (and tributaries Mill River, Peters River, Valley Falls Pond).</li> </ul>	<p><b>Abating bacterial contamination and excess nutrient enrichment</b></p> <p><i>Water quality restoration plans</i></p> <ul style="list-style-type: none"> <li>• Completed Barrington and Runnins and published for public comment; received EPA approval on Hunt River, Fry Brook, and Scrabletown Brook.</li> <li>• Continued development of all listed WQRPs; schedule amended: Narrow River, Gilbert Stuart Brook, Mumford Brook, and Palmer River WQRPs sent to EPA for review in April; Sakonnet River/Island Park Cove, Kickemuit Reservoir, Saugatucket River and Pond, Mitchell and Rocky Brooks to be finalized 12/31/01; Ningret and Green Hill Ponds to be finalized by 6/30/02.</li> <li>• Stafford Pond: <ul style="list-style-type: none"> <li>•Town of Tiverton produced education handbook and sponsored workshops to educate homeowners and Town officials on pond protection.</li> <li>•Town of Tiverton developing an on-site wastewater management plan.</li> <li>•Constructed BMPs at 2 stormwater outfalls to the pond.</li> <li>•Worked with dairy farm to construct BMPs to abate agricultural sources of nutrients and bacteria.</li> </ul> </li> <li>• Barrington and Runnins Rivers: <ul style="list-style-type: none"> <li>•DOT – finalized design of stormwater BMP to Runnins River (DEM and DOT).</li> <li>•Worked with Mass. officials to abate pollution from most significant stormwater source of bacteria to the river.</li> </ul> </li> <li>• Continued development of Providence/Seekonk, Greenwich Bay, its tributaries and coves, Blackstone River, Sands Pond, Crooked Brook, Mashapaug Pond, and the Woonasquatucket River.</li> </ul>

**CLEAN WATER (continued)**

<b>Planned for 2<sup>nd</sup> half FY2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><i>Combined Sewer Overflows (CSOs)</i></p> <ul style="list-style-type: none"> <li>• Begin review of 100% plans and specifications for NBC-CSO Control Program, Phase I and complete review of 100% wet weather and advanced treatment at Bucklin Point.</li> </ul>	<p><i>Combined Sewer Overflows</i></p> <ul style="list-style-type: none"> <li>• Reviewed and approved final plans and specifications for the Main Spine tunnel and continued review of pump station and instrumentation.</li> <li>• Completed design review of Bucklin Point advanced wastewater treatment (AWT) and wet weather facility.</li> </ul>
<p><i>Nonpoint Source Pollution (NPS) and stormwater</i></p> <ul style="list-style-type: none"> <li>• Begin major update to NPS Plan, to be completed in FY02.</li> <li>• Issue an RFP for a minimum of \$500,000 for grant projects for watershed restoration, on-site wastewater management, and stormwater management.</li> <li>• Administer grants and assist local entities to implement 19 watershed restoration projects.</li> <li>• Support development of 3 local stormwater management plans in the Pawtuxet River watershed.</li> </ul> <p><i>Stormwater</i></p> <p>Finalize and begin to implement rules for Phase II Stormwater Permits to improve effectiveness of pollution reduction systems in municipal drainage structures and small construction projects.</p>	<p><i>Nonpoint Source Pollution (NPS) and stormwater</i></p> <ul style="list-style-type: none"> <li>• Update of NPS Plan delayed one year to focus on ISDS Task Force, Stormwater Phase II, and the National Nonpoint Source Steering Committee, all critical to a comprehensive NPS Plan Update.</li> <li>• RFP issued.</li> <li>• Projects ongoing.</li> <li>• Grant awarded to Cranston, Warwick and West Warwick to develop stormwater management plans to meet Phase II stormwater requirements.</li> </ul> <p><i>Stormwater</i></p> <p>Developed draft Phase II Stormwater Regulations with stakeholders.</p>
<p><i>Septic Systems</i></p> <p>Revise ISDS Regulations to:</p> <ul style="list-style-type: none"> <li>• Update design standards and implement soil based siting.</li> <li>• Require nutrient reducing ISDSs in critical coastal areas.</li> </ul>	<p><i>Septic systems</i></p> <ul style="list-style-type: none"> <li>• Revisions to implement soil-based siting and nutrient reduction completed; to go to public notice late fall.</li> <li>• Innovative and alternative technologies – approved an additional technology for nitrogen removal and one more filter, giving more options to homeowners doing major repairs to ISDS.</li> <li>• Awarded \$170,320 to communities for onsite wastewater planning; 81% now participating, exceeding target of 75%.</li> <li>• Made revisions to ISDS regulations to address technical procedural, and administrative issues.</li> </ul>

## CLEAN WATER (continued)

Planned for 2 <sup>nd</sup> half FY2000-2001 Work Plan	Accomplished FY 2001
<p><i>Wastewater Treatment Facilities</i></p> <ul style="list-style-type: none"> <li>• Begin re-drafting 11 major permits to incorporate refined water quality based limits; 4 to include nutrient limits.</li> <li>• Continue providing training and technical assistance on voluntary interim nutrient reductions.</li> <li>• Complete revision of Operation and Maintenance (O and M) Regulations for WWTFs.</li> <li>• Review 5 submittals of WWTF upgrades that address nutrient reduction.</li> </ul>	<p><i>Wastewater Treatment Facilities</i></p> <ul style="list-style-type: none"> <li>• Two permits issued, one sent out to public notice, a public hearing has been held on another. Five in progress, 2 permits not begun. Development of Water Quality Restoration Plans delayed permits.</li> <li>• Conducted training for WWTF operators to reduce ammonia and total nitrogen at two major WWTFs.</li> <li>• Revisions to O and M regs behind schedule due to other priorities and limited resources. New target dates: September 2001 for internal revisions, March 2002 for promulgation.</li> <li>• Entered into Consent Agreements to complete upgrades with nutrient limits at 4 WWTFs. Schedule has been revised for fifth.</li> </ul>
<p><i>Public Education and Outreach</i></p> <ul style="list-style-type: none"> <li>• Initiate implementation of prioritized projects outlined in draft outreach plan.</li> <li>• Distribute Septic System Checkup manual.</li> <li>• Conduct a campaign through public education to promote greater use of marina boat sewage pumpout stations in compliance with no-discharge regulations.</li> </ul>	<p><i>Public Education and Outreach</i></p> <ul style="list-style-type: none"> <li>• Distributed over 2500 copies of the Wetlands Permit guide and fact sheet.</li> <li>• Developed “more about wetlands” web page.</li> <li>• Surveyed approximately 500 people on their use and interest in improved wetlands maps for RI; with URI, developed recommendations and cost estimates to produce improved wetland mapping.</li> <li>• Distributed Septic System Handbook, a checkup manual.</li> <li>• Distributed signs, charts of the bay with pumpout station locations. Save The Bay’s pumpout performance survey showed that the program was generally successful, although Newport appeared to not have the same level of accessibility as the rest of the state.</li> </ul>
<p><i>Assessment and Monitoring</i></p> <ul style="list-style-type: none"> <li>• Publish final report of the dissolved oxygen study of Narragansett Bay by September 2001.</li> <li>• Continue to participate with NEIWGCC and NE states to develop nutrient criteria for all waterbody types.</li> <li>• Coordinate with EPA on Bay Monitoring Plan; seek funding for implementation.</li> <li>• Expand collection of baseline water quality data as resources allow to eliminate gaps in our understanding of water quality conditions.</li> </ul>	<p><i>Assessment and Monitoring</i></p> <ul style="list-style-type: none"> <li>• Dissolved Oxygen report delayed due to lack of staff.</li> <li>• Ongoing. Regional lakes nutrient criteria report is final. Collecting data on rivers. Discussions underway on how states will develop and adopt nutrient criteria for lakes and rivers into their standards. Development of nutrient criteria for estuaries in initial stages.</li> <li>• See Healthy Ecosystems.</li> </ul> <p>Minor expansion of collecting new data. Received small grant from EPA for random sampling in South County Watershed in Summer 2002. Expansion of lakes sampling continues with watershed watch program.</p>

## CLEAN WATER (continued)

Planned for 2 <sup>nd</sup> half FY2000-2001 Work Plan	Accomplished FY 2001
<ul style="list-style-type: none"> <li>Conduct mandatory triennial review of water quality standards for significant rule and criteria changes.</li> </ul>	<ul style="list-style-type: none"> <li>Initiated triennial review of Water Quality regs in January; to be finalized in October 2001.</li> </ul>
<p><b>Toxics</b> Revise Pretreatment Regulations to reflect changes to federal regulations and incorporate incentives for pollution prevention.</p>	<p><b>Toxics</b> Schedule amended: draft document for internal review to be complete August 2001; EPA and Legal review by 1/02; Public Notice by 2/02; Public Hearing by 3/02; promulgation 3/02.</p>
<p><b>Dredging</b> Review Environmental Impact Statement for the Providence River Dredge Project upon submittal of studies of Army Corps of Engineers.</p>	<p><b>Dredging</b></p> <ul style="list-style-type: none"> <li>Provide technical reviews of Providence River dredge project, comments of 10/01/01 focused on: <ul style="list-style-type: none"> <li>Dredging windows and sequencing</li> <li>Mixing zones and monitoring</li> <li>Preferred alternative and Spar Island</li> <li>Dissolved oxygen</li> <li>Non-federal dredging applicants</li> </ul> </li> <li>Also assisted CRMC on development of a long-term dredge disposal plan.</li> </ul>
<p><b>Abating Volatile Organic Compounds and Nitrates in Groundwater</b></p> <ul style="list-style-type: none"> <li>Revise rules for groundwater remediation to reflect changing policies and integration of Office of Water and Office of Waste roles in groundwater remediation.</li> <li>Begin updating 1989 groundwater protection strategy with stakeholders.</li> <li>Identify new strategies for addressing nitrate contamination and private well issues.</li> <li>Begin review of federal delegation of the underground injection control (UIC) program to meet new federal requirements and maintain delegation and funding.</li> <li>Revise 1984 UIC regulations to incorporate a groundwater discharge program.</li> <li>Issue four new grants for wellhead protection and solicit new project proposals.</li> </ul>	<p><b>Abating Volatile Organic Compounds and Nitrates in Groundwater</b></p> <ul style="list-style-type: none"> <li>Revised rules for groundwater to address issues involving remediation, such as residual zones and non-attainment areas.</li> <li>Revised Groundwater Protection Strategy – assessed what has been done under existing strategy; identified issues; potential program changes to be discussed with stakeholders fall 2001; completed report to be done 6/03.</li> <li>Conducted sampling of groundwater for nitrate concentration in the Pawcatuck River watershed.</li> <li>Will propose denitrification requirements for new systems within the coastal pond critical resource areas as amendments to ISDS regulations that will be out to public notice later this year or early next.</li> <li>Review of federal delegation of UIC Program to be delayed one year. Application for primacy, including groundwater discharge program, to be submitted to EPA by 9/02. Initial federal deadline too short, all primacy states received extensions.</li> <li>Awarded \$43,000 to 3 communities for wellhead protection projects, one community declined the grant.</li> </ul>

## LIVABLE COMMUNITIES

Planned for 2 <sup>nd</sup> half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Watersheds</b></p> <ul style="list-style-type: none"> <li>• Develop Action Plans for South County and Woonasquatucket pilot watersheds by June 2001. Incorporate Action Plans into Department and other agencies' (EPA, etc) FY2002 work plans.</li> <li>• Develop sustainable watershed website by July 2001.</li> <li>• Develop RI Grant Guide by July 2001 to identify funding sources for watershed organizations and continue to explore options to build capacity of local watershed organizations.</li> <li>• Coordinate integration of the Watershed Coordinating Council and Rivers Council.</li> <li>• Coordinate Watershed Educational Campaign in DEM parks.</li> <li>• Initiate the Woonasquatucket River Riparian Buffer Zone Project: establish priorities and select site to implement by July 2001. Integrate into URI/DEM and the U. S. EPA wetland restoration efforts.</li> <li>• Implement the Woonasquatucket Greenspace Project: develop priority natural, cultural, and recreational map overlays for each community. Assist communities in developing updated comprehensive greenspace coverage.</li> <li>• Complete South County Greenspace Strategy and work with local governments for adoption by September 2001.</li> </ul>	<p><b>Watersheds</b></p> <ul style="list-style-type: none"> <li>• Developed Watershed Action Template and Action Plans for: Narrow River, Saugatucket, Salt Ponds, Pawcatuck, and Woonasquatucket Watersheds. First time locals have had primary role in determining priorities for their watersheds.</li> <li>• Completed watershed webpage.</li> <li>• Completed a web-based grant guide for watershed organizations.</li> <li>• Roles of the Watershed Coordinating Council and the Rivers Council are coordinated.</li> <li>• Coordinated training for summer naturalists.</li> <li>• Completed Woonasquatucket River Riparian buffer assessment. Buffer restoration at one site to be done Spring 2002.</li> <li>• Received grant funding for the Woonasquatucket Greenspace Project. Initial RFP was rescinded as a result of lessons learned from the South County Greenspace Project.</li> <li>• The South County Greenspace Project is in progress. The committee is meeting and about to finalize the South County Greenspace Strategy.</li> </ul>
<p><b>Smart growth – sustainable development</b></p> <ul style="list-style-type: none"> <li>• Add creative model ordinances and training materials developed from projects initiated in FY2000 to sustainable Watershed website.</li> <li>• Assist with Grow Smart's GIS Community Capacity project.</li> <li>• Help GGPC establish a Planning Institute.</li> </ul>	<p><b>Smart growth – sustainable development</b></p> <ul style="list-style-type: none"> <li>• Completed the South County Planning Assistance Project – four separate reports and a web-based site assessment guide.</li> <li>• Assessed community GIS needs and options for providing training to communities. Statewide Planning has issued an RFP for services to build capacity.</li> <li>• Governor's Growth Planning Council, co-chaired by the Governor and Director Reitsma, issued its First Annual Report in early August.</li> </ul>
<p><b>Environmental Equity</b> Finalize environmental equity policy by January 2001.</p>	<p><b>Environmental Equity</b> Coordinated development of Draft Environmental Equity Policy – Drafted implementation plans, completed preliminary multi lingual research report, started disproportionate exposure analysis research (report completed by August 2001).</p>

## LIVABLE COMMUNITIES (continued)

Planned for 2 <sup>nd</sup> half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Brownfields</b> Continue to work with EDC and stakeholders on the Brownfields Program to clean up and market remediated properties.</p>	<p><b>Brownfields</b></p> <ul style="list-style-type: none"> <li>• Gathered Economic Indicator statistics for 63 Brownfield sites that were re-developed under Settlement Agreements and Covenants Not To Sue (SACNS), negotiated by the Department:</li> <li>• Total assessed value of properties with SACNS increased from \$65.5 million to \$68.8 million.</li> <li>• Total assessed taxes on properties with SACNS increased from \$1.991 million to \$1.996 million.</li> <li>• Approximately 948 new jobs have been created since the program began in 1996.</li> <li>• Total estimated income tax on these properties increase from \$3.32 million to \$3.33 million.</li> <li>• Approximately 605 acres of formerly contaminated land has been remediated and re-used with 53 acres added last year.</li> </ul>
<p><b>Central Landfill</b> Continue to work with stakeholders and EPA on improving conditions at the Central Landfill through Central Landfill Action Committee recommendations.</p>	<p><b>Central Landfill</b></p> <ul style="list-style-type: none"> <li>• Improvements at the Central Landfill resulting from DEM and EPA oversight and enforcement activities are:</li> <li>• Installing an upgraded gas collection system in the active portion of the landfill required by EPA and DEM, 29 additional collection wells will be installed, to meet federal Standards of Performance for Municipal Landfills (<math>\leq</math> than 500 ppm methane above background level);</li> <li>• Added 2, 2,000 cfm flares to capture and burn methane gas (power plant capacity is 5,300 cfm and 8,000 to 10,000 cfm is released);</li> <li>• Upgraded the leachate pretreatment facility (effluent goes to Cranston WWTF);</li> <li>• A state-of-the-art gas collection system is being installed in Phase IV;</li> <li>• Intermediate leachate diversion system under construction at the interface of Phase I and Phase II;</li> <li>• Began capping of Phase I (oldest section, Superfund site).</li> </ul> <p>While the increased capture and burning of methane has resulted in fewer complaints about odors at the landfill, there are periodic air violations.</p>

## LIVABLE COMMUNITIES (continued)

Planned for 2 <sup>nd</sup> half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Statewide Health &amp; Safety Issues</b> WNV Assess effectiveness of response and develop strategy for next year with stakeholders.</p> <p><b>Dams</b></p> <ul style="list-style-type: none"> <li>• Dam Safety and Maintenance Task Force will finalize report by January 2001. Recommendations include: <ul style="list-style-type: none"> <li>• Create a funding assistance program for dam repair and maintenance.</li> <li>• Update the dam classification system.</li> </ul> </li> <li>• Statutory and regulatory changes (the Department will submit recommendations this legislative session).</li> <li>• Establish registration and permitting requirements.</li> <li>• Develop inspection criteria for the various dam classifications.</li> <li>• Develop a map/booklet identifying classifications and access points for all dams.</li> <li>• Begin re-assessment of the classification for up to 75 dams with FEMA grant award.</li> </ul> <p><b>Lead and Mercury</b> <b>Lead</b> Develop a comprehensive lead policy.</p> <p><b>Mercury</b> Work with hospitals to upgrade to close medical waste incinerators by August 2001 to significantly reduce mercury emissions and air toxics.</p>	<p><b>Statewide Health &amp; Safety Issues</b> WNV The Department revised its WNV strategy based on results of previous year to increase mosquito monitoring and decrease spraying and provided pesticides to communities to be used in open water and in drainage basins.</p> <p><b>Dams</b></p> <ul style="list-style-type: none"> <li>• Dam Safety and Maintenance Task force recommendations were not implemented because: <ul style="list-style-type: none"> <li>• The funding assistance program was not accepted in the 2001 Budget.</li> <li>• The dam classification system needed enabling legislation and the legislation did not pass.</li> <li>• Regarding statutory and regulatory changes, the dam legislation did not pass, but the Department is exploring adopting a set of dam regulations.</li> <li>• The Department will attempt to establish permitting and registration requirements through regulations.</li> <li>• Inspection criteria were to have been developed along with regulations.</li> <li>• The Department has created a CD with the location and access points for each high hazard and significant hazard dam.</li> <li>• Issued an RFP for the re-classification of 55 dams.</li> </ul> </li> </ul> <p><b>Lead and Mercury</b> <b>Lead</b> Comprehensive lead policy not developed due to lack of staff and competing tasks. Preliminary meetings were held between DEM divisions, and with Brown University's Center for Environmental Studies and the Department of Health to scope out issues and next steps.</p> <p><b>Mercury</b></p> <ul style="list-style-type: none"> <li>• Promulgated regulations for Hospital/Medical Infectious Waste Incinerators that will reduce mercury emissions to near zero.</li> <li>• All 4 medical waste incinerators closed; however one converted to pathological waste incinerator, which is currently exempt from the regulations.</li> </ul>

## LIVABLE COMMUNITIES (continued)

Planned for 2 <sup>nd</sup> half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Pollution Prevention (P2)</b></p> <ul style="list-style-type: none"> <li>• Conduct P2 integration training for Waste and Water permitting and compliance personnel by December 31, 2000.</li> <li>• Continue work with auto body stakeholder group to finalize/implement program in 2002.</li> <li>• Explore opportunities to advance the Small Business Pollution Prevention Assistance Program, including establishing an advisory panel and developing outreach materials.</li> </ul>	<p><b>Pollution Prevention (P2)</b></p> <ul style="list-style-type: none"> <li>• Trained Air Resources, Waste Management and Water Resources staff.</li> <li>• Auto Body Certification Program on track, developing a 100+ page manual for auto body shops on technical and regulatory requirements.</li> <li>• Small Business Assistance: Dry Cleaner Research and Compliance Assistance Initiative – sponsoring Tufts University engineering project to research and develop P2, environmental and occupational health manual and PowerPoint presentation for dry cleaners; provide manual to OC&amp;I and OAR to help with regulatory initiatives; develop certification program for dry cleaning industry. Draft manual completed.</li> <li>• New staff will start in October to help develop Small Business Assistance Program.</li> <li>• Provided technical reviews at 10 facilities; conducted pilot testing of equipment, laboratory analyses, and recommended pollution prevention for air, water, and hazardous waste for each facility.</li> <li>• Developed a Pollution Prevention Template on Membrane Separation Technology for US EPA to help commercial and industrial facilities make decisions on technologies to acquire.</li> <li>• Started initiatives in the injection molding industry, thermoplastic paints, dry cleaning, and laser-guided spray painting in auto repair.</li> <li>• Provided pollution prevention training and developed outreach materials/publications for industries, Governor’s Award for Excellence in Pollution Prevention and Environmental Leadership, trade groups, universities, and EPA, in addition to Department staff.</li> </ul>

## HEALTHY ECOSYSTEMS

Planned for 2 <sup>nd</sup> Half FY 2000-2001	Accomplished FY 2001
<p><b>Habitat Protection &amp; Restoration</b></p> <ul style="list-style-type: none"> <li>• Develop wetland restoration plan for the Woonasquatucket Watershed including feasibility study of selected sites with URI.</li> <li>• Develop plan to restore riparian forest buffers along the mainstem of the Woonasquatucket; restore one site.</li> <li>• Promulgate rules with reduced application fees for wildlife habitat and water quality improvement projects.</li> <li>• Develop new permitting procedure for restoration planting projects.</li> <li>• Develop wetlands conservation plan for Tiverton &amp; Little Compton with The Nature Conservancy.</li> <li>• Complete research &amp; framework for statewide freshwater wetlands conservation plan.</li> <li>• Publish atlas of coastal habitat areas.</li> <li>• Work with CRMC &amp; Save the Bay to refine habitat restoration priorities; implement statewide habitat restoration strategy &amp; restoration projects for coastal habitats &amp; fisheries:</li> <li>• Allins Cove, Barrington.</li>   <li>• Ten Mile River feasibility study for anadromous fish restoration, East Providence.</li>   <li>• Blackstone River fisheries restoration plan.</li>   <li>• Mill Pond ecological assessment, Bristol.</li> <li>• Town Pond restoration plan, Portsmouth.</li>     <p><i>Fresh and Saltwater Wetlands - Linked to National Corporate Wetlands Restoration Project</i></p> <ul style="list-style-type: none"> <li>• Initiate public/private partnership to fund and implement restoration of degraded fresh and saltwater wetlands and other aquatic habitat.</li> </ul> </ul>	<p><b>Habitat Protection &amp; Restoration</b></p> <ul style="list-style-type: none"> <li>• Wetland restoration plan to be finalized 12/01.</li>   <li>• Final report to be issued 10/01. Buffer site to be restored Spring 02.</li>   <li>• Wetland revisions ready to file; the end of the public comment period was 9/19/01.</li>   <li>• On hold due to other priority regulation changes defined by the Directors office.</li> <li>• On track for completion 12/30/01.</li>   <li>• Completed draft Phase I Freshwater Wetland Conservation strategy with URI.</li> <li>• Slight delay – Atlas to be published 11/01.</li> <li>• Initiated database linkages (themes and geographic areas) for the Narragansett Bay Habitat Restoration Analysis GIS database and maps.</li>   <li>• Draft restoration alternatives will be presented to the community in November for comment.</li> <li>• Completed planning, obtained funding with Save The Bay, CRMC, Army Corps of Engineers, and City of East Providence.</li> <li>• Received grants to develop stakeholder planning process and preliminary designs.</li> <li>• Mill Pond project delayed to 2002.</li> <li>• Received \$500,000 state funds to match \$2 million in federal funds. Permit in development; environmental assessment published by Army Corps of Engineers.</li> <li>• Restored 30 acres of grassland habitat on Block Island.</li> <li>• Planted 22 acres in management areas with food and cover improvements</li>   <p><i>Fresh and Saltwater Wetlands</i></p> <ul style="list-style-type: none"> <li>• Kickoff event scheduled for October 22.</li> </ul> </ul>

## HEALTHY ECOSYSTEMS (continued)

Planned for 2 <sup>nd</sup> Half FY 2000-2001	Accomplished FY 2001
<p><i>Invasive Species</i></p> <ul style="list-style-type: none"> <li>• Assess the extent and types of invasive species statewide.</li> <li>• Publish invasive plant list in early 2001.</li> </ul>	<p><i>Invasive Species</i></p> <ul style="list-style-type: none"> <li>• Participated in Rapid Assessment Survey in August 2000 (CRMC to publish report).</li> <li>• Invasive plant list publication delayed to Fall 2001.</li> <li>• Surveyed population of Japanese Shore Crab.</li> </ul>
<p><b>Coastal Watershed Planning &amp; Policy</b></p> <ul style="list-style-type: none"> <li>• Complete analyses of coastal wetlands restoration and coastal wetland loss.</li> <li>• Publish Bay Summit Report</li> <li>• PNB will develop planning process to identify priorities for Bay &amp; watershed in a short-term short-term action plan: <ul style="list-style-type: none"> <li>• Visioning/planning process through public workshops.</li> <li>• Issues forums</li> <li>• Process to better prioritize habitat restoration projects</li> </ul> </li> <li>• Initiate Bay Watershed Grant Program</li> <li>• Conduct monitoring database workshops.</li> <li>• Under Coastal 2000, Complete monitoring of 35 sites summer 2001.</li> <li>• Complete photo-interpretation of south shore aerial photos by June 2001.</li> </ul>	<p><b>Coastal Watershed Planning &amp; Policy</b></p> <ul style="list-style-type: none"> <li>• Analysis done, mapping to be done by URI, maps due March 2002. Wetland loss trends linked to completion of maps.</li> <li>• Bay Summit Report Published.</li> <li>• Options under review by PNB work group.</li> <li>• Communications strategy in development; due January 2002.</li> <li>• Issues forum series in the planning phase.</li> <li>• Co-sponsored 10 workshops with NBC and URI GSO to provide information needed to develop a unified strategy for managing Bay resources.</li> <li>• RFP for Bay Watershed Grants to go out 11/01/01.</li> <li>• Monitoring workshop held 7/01, monitoring database completed.</li> <li>• Served on Cooperative Bay Monitoring Steering Committee and serve as state contact for the EPA Coastal Assessment Effort (formerly Coastal 2000) for the Bay window monitoring system. 35 sites monitored.</li> <li>• Photo-interpretation for south shore aerial photos 60% complete, will be 100% by spring/summer 2002. Delay due to unexpected consultant staffing shortfall.</li> </ul>
<p><b>Fisheries</b></p>	<p>See Resource Based Industries - commercial fisheries</p>

## HEALTHY ECOSYSTEMS (continued)

Planned for 2 <sup>nd</sup> Half FY 2000-2001	Accomplished FY 2001
<p><b>Surveys and Management Plans</b></p> <ul style="list-style-type: none"> <li>• Publish RI's Living Legacy winter 2000.</li> <li>• Winter flounder – present stock summary status for 1999 to the Marine Fisheries Council November 2000.</li>   <li>• Blue crab – status of resource review to be presented to the Marine Fisheries Council in November; revise limits.</li> <li>• American eel – enact a bag limit of 50 to comply with Atlantic States Marine Fisheries Commission limit.</li>   <li>• Horseshoe crab – research-landing data to determine catch limits.</li> </ul>	<p><b>Surveys and Management Plans</b></p> <ul style="list-style-type: none"> <li>• Publish by June 2002</li> <li>• New flounder volunteer monitoring program coordinated by Save the Bay, with DEM staff, is now collecting data on spawning sites, number and size of adults, and other parameters.</li> <li>• Adult winter flounder abundance remained low in Narragansett Bay, increased in Block Island Sound; abundance of young increased. Abundance in the vicinity of Brayton Point remains low. Fishing mortality rate was greatly reduced through management action.</li> <li>• Flounder have rebounded on the Atlantic coast since restrictions were imposed in 1992, but not in Narragansett Bay.</li> <li>• Blue crab regulations not revised due to insufficient stock data to support higher possession limits. There is no long-term dataset.</li> <li>• New bag limit enacted. There is little data on the glass eel (juvenile stage of American eel), but there is concern over growth of commercial takings of glass eels.</li> <li>• Monitoring only started in the last two years. Stock Assessment showed the RI stock at low abundance and overfished. Instituted commercial quotas of 14,655 and 34,194 for bait and biomedical fisheries, respectively. DEM manages a horseshoe crab breeding refuge, and is monitoring horseshoe crab population using data reported by fishermen as well as a long-term monitoring program.</li> </ul>
<p><b>Low Flows And Drought Response</b></p> <ul style="list-style-type: none"> <li>• The Pawcatuck Watershed Partnership Water Use Stakeholder group will implement the voluntary water use management strategy.</li>   <li>• Blackstone River – Continue to participate on the Blackstone River National Heritage Corridor Commission's Stream Flow Task Force, which includes hydropower operators, to reduce river flow fluctuations.</li> </ul>	<p><b>Low Flows And Drought Response</b></p> <ul style="list-style-type: none"> <li>• Worked with Pawcatuck Partnership to:</li> <li>• Obtain pledges from 17 federal, state, municipal, and non-governmental agencies to support the partnership.</li> <li>• Continue a study to develop a model to evaluate flow fluctuations due to water withdrawal.</li> <li>• Conduct workshops for farmers and other property owners to gain support for the partnership.</li> <li>• Blackstone Stream Flow Task Force is continuing to evaluate measures to reduce River flow fluctuations. Five of the six licensed hydropower facilities have developed and are implementing operating plans.</li> </ul>
<p><b>Total Maximum Daily Loads (TMDLs)</b></p>	<p>See Clean Water – Water Quality Restoration Plans</p>

## NATURAL-RESOURCE-BASED INDUSTRIES

Planned for 2 <sup>nd</sup> Half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Fisheries</b></p> <ul style="list-style-type: none"> <li>• Continue to work with federal partners to review/revise fisheries management programs to rebuild overfished stocks.</li> <li>• For the one-year moratorium on commercial fishing licenses instituted by the General Assembly, work with the legislature, the commercial fishing industry, URI, and environmental groups to address short-and long-term fisheries issues in a process facilitated by the URI Coastal Institute. Issues include restructuring the state's commercial fishing licensing system.</li> <li>• Initiate monitoring program for pelagic (open water) gamefish in Narragansett Bay.</li> <li>• Replenish 1.5 million lobsters over 5 years with North Cape Oil Spill funds.</li> <li>• Complete anadromous Fish Restoration Strategic Plan by Winter 2001.</li> </ul>	<p><b>Fisheries</b></p> <ul style="list-style-type: none"> <li>• Administered management plans for 28 species.</li> <li>• Working with the legislature on restructuring commercial fishing license system, process facilitated by URI Coastal Institute: <ul style="list-style-type: none"> <li>• Six subcommittees (commercial licensing/data collection, shellfish, lobster, finfish, aquaculture, and recreational licensing. have been formed and begun meetings.</li> <li>• Monthly plenary meetings scheduled for October 24 and November 21 at the Coastal Institute, are open to the public. Information is available at <a href="http://www.ci.uri.edu/projects/rifish">www.ci.uri.edu/projects/rifish</a>.</li> </ul> </li> <li>• Experimenting with gear, vessels, and techniques to conduct long-term monitoring for pelagic monitoring</li> <li>• DEM has conducted bottom trawl, beach seine, and shellfish dredge surveys since 1979 in Narragansett Bay and RI coastal waters. Survey results indicate demersal (bottom) fish declined from 1979 to 1993, while pelagic (open water) finfish and squid increased. Lobster and crab abundance increased while quahogs declined. More recent survey data show the trend may be reversing.</li> <li>• Released 300,000 lobsters into Narragansett Bay in addition to those released in 2000.</li> <li>• Created and distributed freshwater fishing abstracts, freshwater and saltwater fish of RI posters, and Common Freshwater Fish of Rhode Island Identification booklet.</li> <li>• Signed Cooperative Agreement for the Restoration of Anadromous Fisheries in the Pawcatuck River in partnership with U.S. Fish and Wildlife Service, National Marine Fisheries Service, and CT DEP</li> </ul>
<p><b>Aquaculture</b> Complete aquaculture marketing project by December 2000.</p>	<p><b>Aquaculture</b> Aquaculture marketing project delayed indefinitely since stakeholders cannot agree on what to do.</p>
<p><b>Fishing and Hunting</b> Develop an internal working committee to identify the recreational and commercial value of the fish and wildlife resources in RI.</p>	<p><b>Fishing and Hunting</b> Held one meeting to develop working committee. This activity is on hold due to competing priorities.</p>
<p><b>Hunting</b> Work with Ducks Unlimited to build a handicap accessible waterfowl blind by June 2001.</p>	<p><b>Hunting</b> Handicap accessible waterfowl blind completed by June 2001 in South Shore Management area.</p>

**NATURAL-RESOURCE-BASED INDUSTRIES (CONTINUED)**

<b>Planned for 2<sup>nd</sup> Half FY2000-2001 Work plan</b>	<b>Accomplished FY 2001</b>
<p><b>Port Upgrade Plan</b> Newport (construction scheduled to begin November 2000 and take approximately 2 years to complete):</p> <ul style="list-style-type: none"> <li>• Install floating dock; replace broken pilings.</li> <li>• Build bulkhead, stormwater treatment system, and other site improvements.</li> </ul> <p>Galilee:</p> <ul style="list-style-type: none"> <li>• Complete bulkhead &amp; parking lot improvements by April 2001.</li> <li>• Replace Piers E, G &amp; H. Piers G &amp; H complete by February 2001. Pier E pending CRMC approval for major design changes requested by lessee.</li> </ul> <p><i>Working with Galilee Port Advisory Committee (GPAC) and Town of Narragansett</i></p> <ul style="list-style-type: none"> <li>• DEM &amp; GPAC will develop a comprehensive plan for the port: <ul style="list-style-type: none"> <li>• Convene stakeholders &amp; state agencies to work on solutions to parking problem.</li> <li>• Schedule public workshops for input on solutions identified by stakeholders.</li> <li>• Prepare recommendations, budget, and schedule for consideration by implementing authorities.</li> </ul> </li> </ul>	<p><b>Port Upgrade Plan</b> Newport</p> <ul style="list-style-type: none"> <li>• Replaced the Southfacing bulkhead at State Pier Nine in Newport.</li> <li>• Began construction of the West and North bulkheads.</li> </ul> <p>Galilee</p> <ul style="list-style-type: none"> <li>• Completed bulkhead &amp; parking lot improvements by April 2001.</li> <li>• Completed rebuilding Piers “G” and “H” by February 2001. Pier E withdrawn for redesign at request of lessee.</li> </ul> <p><i>Working with Galilee Port Advisory Committee (GPAC) and Town of Narragansett</i></p> <ul style="list-style-type: none"> <li>• Narragansett Town Council approved the Special District Zoning Plan for the Port of Galilee drafted by GPAC and DEM to help Galilee remain a commercial fishing port. The plan was set for formal hearings and adoption by the end of September.</li> <li>• Revised “Galilee Port Operations Regulations and Berthing Management System” regulations to reflect changes in how the fishing industry uses the port.</li> </ul>



**NATURAL-RESOURCE-BASED INDUSTRIES (continued)**

<b>Planned for 2<sup>nd</sup> Half FY 2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><b>Sustainable Agriculture</b> Farm Viability</p> <ul style="list-style-type: none"> <li>• Prepare draft Farm Viability Program and funding proposal.</li> <li>• Work with the Water Resources Board on a 2-year project to develop a long term Drought Management Plan as a State Guide Plan element.</li> </ul>	<p><b>Sustainable Agriculture</b> Farm Viability</p> <ul style="list-style-type: none"> <li>• Obtained Federal funding for the Farm Viability Program Committee began work in September.</li> <li>• Drought Management Plan is progressing.</li> <li>• Established a Farmers Market at Colt State Park in Bristol, and expanded existing marketing and promotion for all the farmers markets.</li> <li>• Initiated an agricultural education and promotion program with Radio Disney at two inner city schools.</li> <li>• Established a draft protocol and response guide for Foot and Mouth Disease.</li> <li>• Initiated a program to assist farmers with abating crop damage by deer.</li> <li>• Improved and expanded environmental monitoring and assistance to farmers regarding use of agricultural best practices.</li> <li>• With URI and partners, established a program to evaluate and promote good agricultural practices relating to food safety at farms.</li> <li>• Initiated a program in partnership with FDA and DOH to sample produce and seafood for pesticide residues.</li> <li>• Established the RI Community Farm (in Jamestown) in partnership with many stakeholders to grow food for the RI Community Food Bank.</li> <li>• Initiated a fall food drive to benefit the RI Community food Bank, with farmers and others.</li> </ul>
<p><b>Farmland Preservation</b> Award grants for acquisition of development rights through the Agricultural Land Commission on an average of 5 working farms totaling over 400 acres per year using one million dollars in capital funding over five years.</p>	<p><b>Farmland Preservation</b> See Open Space and Recreation for land acquisition.</p>

**NATURAL-RESOURCE-BASED INDUSTRIES (continued)**

<b>Planned for 2<sup>nd</sup> Half FY 2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><b>Provide Facilities &amp; Activities to Support Tourism</b></p> <ul style="list-style-type: none"> <li>• Blackstone River Bike Path: <ul style="list-style-type: none"> <li>• Complete Blackstone Bike Path Segment 6 by Fall of 2001.</li> <li>• Begin Ashton Bridge construction in Spring 2001.</li> </ul> </li> <li>• Begin construction of Segment 4, downtown Pawtucket to Blackstone Canal Towpath (4.1 mi.) in Spring 2001.</li> </ul>	<p><b>Provide Facilities &amp; Activities to Support Tourism</b></p> <ul style="list-style-type: none"> <li>• Blackstone River Bike Path: <ul style="list-style-type: none"> <li>• Blackstone Bike Path Segment 6 will be completed by 11/30/01.</li> <li>• Began Ashton Bridge construction in Summer 2001.</li> </ul> </li> <li>• Construction start of Segment 4, downtown Pawtucket to Blackstone Canal Towpath delayed due to DEM permitting delays.</li> </ul>
<p><b>Boating Safety</b></p> <ul style="list-style-type: none"> <li>• Distribute division logo lifesavers and boating jackets to 2100 children.</li> <li>• Complete database of individuals completing the boating safety course by February 2001.</li> <li>• Support passage of mandatory boating education legislation.</li> </ul>	<p><b>Boating Safety</b></p> <ul style="list-style-type: none"> <li>• Distributed 2860 boating safety lifejacket pamphlets.</li> <li>• Completed database August 2001 (delayed due to need for summer intern to enter data).</li> <li>• Supported mandatory boating education legislation, which was became law.</li> </ul>
<p><b>Increase Public Safety And Public Access Areas, Parks, Management Areas And Fishing Access</b></p> <ul style="list-style-type: none"> <li>• Complete state parks facility improvement projects by June 2001.</li> <li>• Build boat ramps: <ul style="list-style-type: none"> <li>• Stone Bridge, Tiverton (Spring 2001).</li> <li>• New sites: Barberville Dam, Wood River, and Black Point (Fall 2000).</li> </ul> </li> <li>• Construct handicap accessible dock for shore fishing at Carbuncle Pond (Spring 2000).</li> <li>• Boat ramp and dock at Haines State Park (Spring 2001).</li> <li>• Publish guides by June 2001 and coordinate with EDC to promote RI natural areas.</li> </ul>	<p><b>Increase Public Safety And Public Access Areas, Parks, Management Areas And Fishing Access</b></p> <ul style="list-style-type: none"> <li>• Completed state parks facility improvement projects by June 2001.</li> <li>• Build boat ramps: <ul style="list-style-type: none"> <li>• Stone Bridge, Tiverton finished Summer 2001</li> <li>• Barberville Dam/Wood River completed Spring 2001. Black Point expected to be completed Fall 2001.</li> <li>• Project delayed due to design problems</li> </ul> </li> <li>• Boat ramp and dock at Haines State Park completed Summer 2001.</li> <li>• DEM has completed the rewrite of the existing management area guide using trail grant funds.</li> </ul>



**ABUNDANT OPEN SPACE AND RECREATIONAL OPPORTUNITIES (continued)**

<b>Planned for 2<sup>nd</sup> Half FY 2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><b>Forestlands</b></p> <ul style="list-style-type: none"> <li>• Purchase development rights to forested land, targeting habitat to foster biodiversity; continue negotiations on 856 Forest Legacy acres.</li> <li>• Submit 7 Forest Legacy applications.</li> </ul>	<p><b>Forestlands</b></p> <ul style="list-style-type: none"> <li>• Acquired the conservation rights on 166 acres during the year through the Forest Legacy Program. Negotiations were on-going on 526 acres. Ten new applications were received and properties evaluated with an estimated purchase price of \$4.5 million. To date, 685 acres have been permanently protected.</li> <li>• Submitted 4 to federal Forest Legacy Program, funding obtained for 3 out of 4 submissions. Number of submissions reduced due to limited federal funding.</li> </ul>
<p><b>Asset Management and Protection</b></p> <ul style="list-style-type: none"> <li>• Implement the AMP for state park system including \$700K in vehicle and equipment replacement.</li> <li>• Seek appropriation of \$3.6 million for parks Capital Asset Management projects for and beaches.</li> <li>• Prepare AMP for Division of Forest Environment.</li> <li>• Major construction projects planned include: <ul style="list-style-type: none"> <li>• Aquatic Research Center at Fort Wetherill, scheduled for completion in September 2002 (\$4.2 million).</li> <li>• Bowdish Dam Repairs scheduled for completion in November 2001(\$854,000).</li> <li>• Pulaski Park scheduled for completion in June 2002 (\$504,000).</li> <li>• Kelly House Museum scheduled for completion in October 2001 (\$300,000).</li> </ul> </li> </ul>	<p><b>Asset Management and Protection</b></p> <ul style="list-style-type: none"> <li>• Implemented Asset Management Schedule; for both Parks and Forestry Divisions \$225,000to be budgeted annually for vehicle and equipment replacement, beginning in FY2002.</li> <li>• \$2.48 million included in budget request for FY2003 through FY2007. <ul style="list-style-type: none"> <li>• Reviewing potential for increasing parks- and management area-generated revenue and pilot enterprise study.</li> <li>• Assessing the feasibility of establishing a trust fund for parks and forestry asset management will submit enabling legislation.</li> </ul> </li> <li>• Forestry Asset Management Plan to be published late October.</li> <li>• Major construction projects planned include: <ul style="list-style-type: none"> <li>• Fort Wetherill Aquatic Research Center to be completed Spring 2002, ahead of schedule.</li> <li>• Bowdish Dam Repairs to be completed November 2001, on track.</li> <li>• Pulaski Park scheduled for completion June 2002 (\$625,000)</li> <li>• Kelly House Museum to be completed November 2001, 1 month behind.</li> </ul> </li> </ul>
<p><b>Bikeways, Greenways and Trails</b></p> <ul style="list-style-type: none"> <li>• Administer 13 local greenway grants and 20 local trail grants.</li> </ul>	<p><b>Bikeways, Greenways and Trails</b></p> <ul style="list-style-type: none"> <li>• Administration of 1 local greenway grant totaling \$250,000 has been completed. Three additional greenway grants expected to be administered by December 2001 totaling \$317,000, after which 10 will be left to administer. Nine local trail grants have been selected totaling \$425. All available funds awarded.</li> </ul>

**ABUNDANT OPEN SPACE AND RECREATIONAL OPPORTUNITIES (continued)**

<b>Planned for 2<sup>nd</sup> Half FY 2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><b>Other</b></p> <ul style="list-style-type: none"><li>• Complete 24 grant projects totaling \$3.2 million to develop local recreational areas. Total value of projects is \$7.5 million.</li></ul>	<p><b>Other</b></p> <ul style="list-style-type: none"><li>• 4 grant projects totaling \$815,000 have been completed, 4 additional grant projects totaling \$590,000 expected to be completed by December 2001. The remaining projects that have been awarded (16) are expected to be completed by the extension expiration date (9/30/02) due to the need for an extra planning cycle for material and logistics timing.</li></ul>

## OPEN & EFFECTIVE GOVERNMENT

Planned for 2 <sup>nd</sup> Half FY 2000-2001 Work Plan	Accomplished FY 2001
<p><b>Accountability</b></p> <ul style="list-style-type: none"> <li>• Develop 2002 – 2003 Work Plans.</li> <li>• Develop a new 2-year Performance Partnership Agreement and Performance Partnership Grant with EPA.</li> <li>• Explore the expansion of Professional Development Review (PRD) to union staff in 2001 (proposal submitted to Department of Administration for master contract) negotiations).</li> <li>• Finalize Department enforcement policies by September 2001: <ul style="list-style-type: none"> <li>• Monitor the effectiveness of and improve Guidelines for Administrative Inspections.</li> </ul> </li> <li>• Finalize Critical Enforcement Timelines.</li> </ul>	<p><b>Accountability</b></p> <ul style="list-style-type: none"> <li>• 2002-2003 Work Plans with indicators and performance measures from the initial 2-year work plan further refined.</li> <li>• Developed a new 2-year Performance Partnership Agreement with EPA</li> <li>• The tentative agreement with the union includes a provision for a joint committee to explore developing a process to extend the PDR to union staff.</li> <li>• Environmental Response Policy overall policy – delayed, to be completed June 2002</li> <li>• Implemented Guidelines for Administrative Inspections (Environmental Protection Bureau) to help staff conduct regulatory inspections without unnecessarily intruding on the rights and expectations of property owners. Continue to monitor effectiveness. To date, minimal complaints about inspections and staff report feeling comfortable with guidelines.</li> <li>• Project stalled until issues such as administrative warrants, among others, are settled.</li> </ul>
<p><b>Accessibility and Responsiveness</b></p> <ul style="list-style-type: none"> <li>• Convene a Greenhouse Gas Stakeholders Group.</li> <li>• Convene an Agricultural Roundtable.</li> <li>• Improve design, content, consistency, and user-friendliness of DEM website(s) by January 31, 2001.</li> <li>• Improve public education and outreach by installing information kiosks at 10 wildlife management areas.</li> </ul>	<p><b>Accessibility and Responsiveness</b></p> <ul style="list-style-type: none"> <li>• Convened Greenhouse Gas Stakeholders Group, 10/4/01.</li> <li>• The RI Farm Viability committee met for the first time in September 2001.</li> <li>• Launched better website with improved design, content, consistency and user-friendliness.</li> <li>• Installed 12 information kiosks at wildlife and public access areas.</li> </ul>
<p><b>Permit/Regulatory Streamlining</b></p> <ul style="list-style-type: none"> <li>• Phase-in Permit Process Tracking and Information System (PPTIS), a computer infrastructure that will enable DEM to process and tract permit applications more effectively starting in Fall of 2000 with final implementation by June 2001.</li> <li>• Additional PPTIS initiatives include: <ul style="list-style-type: none"> <li>• Evaluate cost-effective alternatives to integrate GIS into PPTIS.</li> <li>• Develop policy to address public access to documents on PPTIS.</li> </ul> </li> <li>• Develop policy on data entry quality control</li> </ul>	<p><b>Permit/Regulatory Streamlining</b></p> <ul style="list-style-type: none"> <li>• Implemented. Waste Management and Air Resources migrated most of their databases to the new system by the end of the fiscal year. Wetlands and ISDS to be incorporated in the coming year.</li> <li>• ARC MIS software on DEM website will be linked to PPTIS when the database components are completed.</li> <li>• The DEM Policy on public access to PPTIS is governed by the Rhode Island Access to Public Records Act.</li> <li>• Included in the Quality Management Plan that was completed September '01.</li> </ul>

**OPEN & EFFECTIVE GOVERNMENT (continued)**

<b>Planned for 2<sup>nd</sup> Half FY 2000-2001 Work Plan</b>	<b>Accomplished FY 2001</b>
<p><b>Permit/Regulatory Streamlining (Cont.)</b></p> <ul style="list-style-type: none"> <li>• EPA One Stop Grant – Complete and submit detailed work plan (120-Day Plan) by April 2001.</li> <li>• Finalize Wetlands and ISDS evaluations by December 2000. Continue work with stakeholders to complete additional program analyses as follows: Waste – January 2001; Air – April 2001; RIPDES – May 2001; Underground Injection Controls – July 2001.</li> <li>• Continue to reduce permit backlogs:               <ul style="list-style-type: none"> <li>• RIPDES backlog: by December 2000 – 20%; by December 2001 – 0%.</li> <li>• Continue tracking permit times to document progress and problems.</li> </ul> </li> </ul>	<p><b>Permit/Regulatory Streamlining (Cont.)</b></p> <ul style="list-style-type: none"> <li>• Received \$500,000 grant from EPA to add Compliance and Inspection, Post-Permit and Ambient Monitoring, and a full-time project manager.</li> <li>• Completed Wetlands Report March 21, 2001; Draft ISDS Report 8/2001, currently revising ISDS regulations. Waste Management Task Force Draft Report available in September. Stakeholder groups to be convened: Air (Nov. 2001); Underground Storage Tank; RIPDES, and Water Quality Certification.</li> <li>• Continue to reduce permit backlogs:               <ul style="list-style-type: none"> <li>• RIPDES backlog will be 12% by 12/01 and 0% 9/02, meeting the EPA deadline of 12/02.</li> <li>• Permit tracking in progress.</li> </ul> </li> </ul>
<p><b>Improving Enforcement</b></p> <ul style="list-style-type: none"> <li>• Expand mediation program to include waste and underground storage tank programs.</li> <li>• Reduced wetlands program complaint backlog from 120+ days to current incoming complaints in first 3 months of new fiscal year. Respond to all complaints within a few days.</li> <li>• Reduce backlog of approximately 950 unresolved ISDS complaints by performing 150 follow-up inspections and formal enforcement actions.</li> <li>• Fill 2 vacancies in January 2001 to meet the increasing number of complaints.</li> <li>• Finalize SEP amendments and establish a SEP bank by January 31, 2001.</li> </ul>	<p><b>Improving Enforcement</b></p> <ul style="list-style-type: none"> <li>• Mediation cases referred to AAD this fall are expected to include solid waste and UST cases.</li> <li>• Eliminated wetlands program complaint backlog. Now responding to all complaints generally within one week.</li> <li>• Reduced ISDS backlog from 950 to 35-40. However, continue to struggle with issuing notices of violations (NOV's) in a timely manner and with follow-up once NOV's are issued.</li> <li>• Two vacancies are being filled to meet the increased number of complaints.</li> <li>• Re-drafted Supplemental Environmental Policy amendments, under review; SEP bank cannot be established until the policy setting guidelines for the bank are final.</li> </ul>
<p><b>Cooperative Enforcement</b> Collaborate with other law enforcement agencies to improve enforcement capabilities and coordination.</p>	<p><b>Cooperative Enforcement</b></p> <ul style="list-style-type: none"> <li>• Provided training to 85 officers at all three RI Municipal Police Training Academies.</li> <li>• Conducted two-part training exercise for the FBI Boston Division's 22 member Emergency Response Team.</li> <li>• Served as instructors at the Northeast Environmental Enforcement Project's Basic Training seminar for investigators in Providence in April and the Advanced Training Course in Fort Monmouth, N. J. in June.</li> <li>• With the Attorney General's Office, conducted a class on "Complaint Triage and Courtroom Testimony and Cross Examination Preparation" for DEM regulators.</li> </ul>