

	<b>Block Island</b>	<b>Charlestown</b>	<b>South Kingstown</b>	<b>Jamestown</b>
<b>Town overview</b>	<ul style="list-style-type: none"> <li>• Island community of 10 square miles, 10 miles offshore, 42% in conservation</li> <li>• Population: Year-round 1,000; summer overnight 10,000 plus thousands of day trippers and up to 1500 boats in harbors.</li> <li>• 1,268 onsite treatment systems</li> <li>• Public sewer and water utilities serve the major business district; over 200 buildings on sewer.</li> </ul>	<ul style="list-style-type: none"> <li>• Population 7,860.</li> <li>• 4,200 onsite treatment systems</li> <li>• No municipal water or sewer</li> </ul>	<ul style="list-style-type: none"> <li>• Population 27,900.</li> <li>• 6600 onsite treatment systems</li> <li>• Municipal sewer serves the town center and URI. Public water serves village centers and a portion of densely settled coastal areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Population 5,620</li> <li>• 1724 onsite treatment systems</li> <li>• Municipal water and sewer serves the town center.</li> </ul>
<b>Why the wastewater management program was created</b>	<ul style="list-style-type: none"> <li>• High quality ground and surface waters essential for preservation of unique natural resources, on which the island's economy, water supply, and character are based</li> <li>• Sole source aquifers have limited yield and are vulnerable to contamination.</li> <li>• Ensure proper system function and maintenance.</li> <li>• Prevent system failure at high-use rentals and seasonal dwellings.</li> <li>• Reserve sewers for central core and control sprawl in outlying areas.</li> <li>• Identify appropriate technologies for wetland buffers and other critical areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain high quality of sole source aquifers.</li> <li>• Protect private wells and small public supplies.</li> <li>• Re-open Green Hill and eastern Ninigret Ponds to shellfishing, protect other coastal ponds and sensitive water resources.</li> <li>• Maintain high value of coastal real estate.</li> <li>• Ensure proper on-site system function and maintenance as a permanent treatment option.</li> <li>• Prevent system failure with high-use rentals and seasonal homes; cesspools, and other outdated systems in densely developed shorelines.</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain high quality of sole source aquifers.</li> <li>• Protect private wells and small public supplies.</li> <li>• Restore Green Hill Pond to pre-1970 condition, protect other coastal ponds and sensitive water resources</li> <li>• Ensure proper on-site system function and maintenance as a permanent treatment option.</li> <li>• Prevent system failure with high-use rentals and seasonal dwellings, densely developed shorelines, and outdated systems.</li> <li>• Reserve sewers for central core and control sprawl in outlying areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Protect very limited water resources for public supply and private wells.</li> <li>• Prevent system failure in areas with small substandard lots, outdated systems, poor soils, and private wells.</li> <li>• Reserve public water and sewers for the town center.</li> </ul>
<b>Ordinance Overview</b>	<p>1996 Wastewater management ordinance established inspection and maintenance program.</p> <p>1998 Zoning amendment (Section 506) established treatment standards for onsite systems based on location and soil conditions. Also mandated cesspool upgrades and installation of access risers and effluent filters by 12/31/05.</p>	<p>Wastewater Management Ordinance establishes flexible inspection and maintenance program, and cesspool phase out.</p> <p>No town sewer system; currently reviewing a septage management plan. First community to offer low interest loans through the Community Septic System Loan program.</p>	<p>Wastewater management ordinance requires regular inspection and maintenance, and cesspool phase out.</p> <p>Inspections phased in over 7 districts.</p> <p>First mainland community to require town-wide cesspool phase out.</p>	<p>Wastewater Management Ordinance requires regular inspections.</p> <p>High Groundwater Overlay Zone requires advanced treatment integrated with extensive stormwater runoff controls in selected areas.</p>

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<b>Inspections, maintenance and upgrade requirements</b>	<p>Town Inspector performs all inspections.</p> <p>Maintenance regulations for enhanced treatment systems being developed.</p> <p>Upgrades of cesspools and addition of access risers and filters mandated by 12/31/05.</p>	<p>Town regulates inspection and pump schedules determined by private service providers. Inspections are typically once every 3-5 years based on system size and use, with tank pump out as needed.</p> <p>Service providers must register with the town</p> <p>Cesspools must be replaced by 2009, except if causing a public health threat, then immediate replacement is required.</p>	<p>Private service providers perform inspections as in Charlestown and Jamestown.</p> <p>Any system installed prior to 1970 must be pumped out as part of the first maintenance inspection.</p> <p>Point of sale inspections required within one year of property transfer.</p> <p>Cesspools must be replaced within 5 years of 1<sup>st</sup> inspection or within 1 year of property sale, except if causing a public health threat, then immediate replacement is required.</p> <p>Cesspools with <math>\geq 2</math> pumpouts per year must be replaced within 18 months. (Amendment February, 2006).</p>	<p>Private inspectors register with town and sign professional conduct agreement.</p> <p>Inspectors must have separate certification to inspect and maintain advanced treatment systems.</p> <p>Currently No Cesspool Phase-out</p>
<b>Treatment standards</b>	<p>Performance based treatment standards in place since 1998. Advanced treatment (T2) required based on location in shoreline buffers, drinking water sources and soil types.</p>	<p>Town requires two compartment tanks on every system installed with 1,500 gallon min. Treatment standards being investigated.</p>	<p>Advanced treatment routinely required as condition of special use permit for systems located in wetland buffers.</p> <p>Treatment standards under review.</p>	<p>Advanced treatment required in densely developed areas with high water table.</p>
<b>Management of alternative systems</b>	<p>Locations and configuration of alternative systems now in tracking system.</p> <p>Annual operation and maintenance agreement required for any system with a pump.</p> <p>Detailed maintenance regulations being prepared.</p>	<p>Requires maintenance contract to be filed at the Town Hall, with minimum requirement of annual maintenance.</p> <p>All systems with a pump must have an annual operation and maintenance agreement.</p>	<p>System owner must have a maintenance contract in place, and submit most recent service report to the town.</p> <p>Does not apply to conventional systems with a pump.</p>	<p>System owner must have a maintenance contract in place, and submit most recent service report to the town. As of March 2006, tracking program is current with all I&amp;A Data.</p>

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<b>System Inventory and Tracking</b>	<p>Web-based tracking program in place.</p> <p>35 of 1268 systems still need first maintenance inspections to disclose condition and configuration.</p>	<p>Web-based tracking program in place since 2005.</p> <p>Service providers provide on-line inspection reports as of 12/1/05.</p>	<p>Private inspectors submit paper reports for processing, town wastewater specialist manually inputs data into excel based tracking program. Program developed by Town IT staff.</p>	<p>First town in NE to contract with online data services company for web-based tracking program. Data services include: reporting, tracking inventory, automatic notices, and red flag tracking.</p>
<b>Education and outreach</b>	<p>Extensive public education (local newspaper, letters to property owners, information program for renters, day trippers, and boaters, etc.)</p> <p>Local newspaper 2005: 25 articles, multi-issue 1/8 page ad campaign “Countdown to 12-31-05”, 5 – 1/8 page ads by service suppliers and installers.</p>	<p>Mailings sent to real eWorking with URI for public education and outreach (newspaper articles, advertisements, mailings, website etc)</p>	<p>Working with URI for public education and outreach (newspaper articles, advertisements, mailings, website etc)</p>	<p>Extensive public education (newspaper articles, advertisements, mailings, in-depth website, fact sheets, public workshops, etc)</p>
<b>Enforcement Provisions</b>	<p>Enforcement provisions of WWM ordinance strengthened 12/7/05.</p> <p>Public education and property owner rebates prior to 12/31/-05.</p> <p>Post 12/31/05 notices of violation being issued to be followed by fines as appropriate.</p>	<p>Non compliance mailings to homeowners sent immediately to those not responding to inspections and to failures of system inspections.</p> <p>Cesspools owners notified of May 2009 deadline.</p>	<p>Non compliance mailings to homeowners sent to those not responding to inspections and to failures of system inspections.</p>	<p>Non compliance mailings to homeowners sent immediately to those not responding to inspections and to failures of system inspections.</p>

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<b>Administration</b>	Town Building Official and Sewer Commission.  Island Steering Committee – 5 members appointed by and responsible to the town council.	Program is administrated by the Wastewater Management Commission	Program is administrated by the Public Works Department.	Program is administrated by the Public Works Department
<b>Staffing</b>	Town Office of Water Management – Part time Waste Water Management Inspector, part time Wastewater Management Administrator, with support from GIS and other town functions.	Wastewater Management Specialist, part time, no benefits	Wastewater Management Specialist, part time with benefits	Town Engineer oversees program, Town Consultant manages / runs program
<b>Budget and funding</b>	General town budget will include \$50,000 annual after EPA Demonstration Project ends.  Projected 2006 budget of \$87,573.00 (Town pays for the inspections).  Funds will be deducted by town’s general fund	Current EPA program grant support ends 6/06.  Town is considering an administrative fee for system owners to support program	Projected budget of \$46,410.00 Town is considering an administrative fee for septic system owners to support program.	\$51,750.00 includes 10% of Town Engineer’s Salary. Financed by \$30 assessment to all septic system owners.
<b>Financial Aid to system owners</b>	No Cost inspections by town.  No Cost for uncovering tank by town for 1 <sup>st</sup> inspection.  Low Cost CSSLP loans by State. \$250,000 at 4% loaned to date; additional \$250,000 at 2% available.  Town had a \$350 rebate for all property owners, and \$1,000 rebate for low /fixed income property owners to comply with the riser and filter upgrades prior to the 12/31/05 deadline.  Rebates issued to date - \$450,000 (funded by EPA Demonstration Project).	Low interest loan program in place, \$276,769 has been expended.  Town has grant money available for digging and locating the septic tank as well as riser and filter upgrades	Low interest loan program in place, \$206,342 has been expended. \$1.3 million available.  Town has grant money available for digging and locating the septic tank as well as riser and filter upgrades	Low interest loan program in place. \$280,000 available August 1 <sup>st</sup> 2005  Grant money is also available for Access Riser and Effluent Filter installations

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<b>Inspection Results</b>	<p>97% compliance with First Maintenance Inspection; 35 remaining of 1268.</p> <p>Approximately 8% of systems inspected to date have functional failures.</p>	<p>97% in compliance. Cesspool replacement ongoing Maintenance contracts for advanced treatment systems being reviewed.</p> <p>Tracking in web-based program will create mailings and notices based on “flexible” schedule with inspections as needed.</p>	<p>97% compliance. 44% of first maintenance inspections completed as of April 2005. Of these, 9% are cesspools and 3% are failed.</p> <p>Repairs and cesspool replacement ongoing.</p>	<p>90% Compliance with First Maintenance Inspections. 176 remaining of 1,724.</p> <p>3% of systems inspected were failed and 5% were substandard.</p>
<b>Accomplishments</b>	<p>Ordinances, personnel, financing in place.</p> <p>Initial inspections 97% complete, upgrades well under way.</p> <p>Community support – outstanding.</p> <p>Enforcement – well under way.</p>	<p>Ordinance, Commission, wastewater manager’s position established. GIS staff on board.</p> <p>All three districts inspected.</p> <p>Successful conversion to web based tracking.</p> <p>Involvement of service providers.</p>	<p>Ordinance, Wastewater manager’s position established. GIS staff on board.</p> <p>In-house custom SK tracking program is use.</p>	<p>Ordinance and zoning standards in place.</p> <p>Established yearly assessment to ISDS owners. 90% compliance of initial inspections. Web-database and inventory program established.</p>
<b>Current issues and future directions</b>	<p>Administration – enforcement, issue Notice of Violations, complete upgrades.</p> <p>Monitoring – enlist permanent responsibility to institutionalize.</p> <p>Public education – develop annual report of health of water resources including progress indicators.</p> <p>Enhanced treatment systems – implement annual maintenance and special inspection.</p>	<p>Enforcement issues – May 2009 cesspool replacement deadline.</p> <p>Demonstration grant termination with town responsible for funding program.</p> <p>New development application reviews.</p> <p>Wastewater Commission vacancies.</p> <p>Performance based standards</p> <p>Development of town GIS program.</p> <p>Ordinance review and rewrite.</p>	<p>Wastewater program manager vacancy.</p> <p>Continue first inspections throughout remainder of town.</p> <p>Expedited replacement of large flow commercial systems within 19 months with 2 or more pumpouts annually.</p> <p>Conversion to town funding.</p> <p>Performance based standards under review.</p> <p>Development of final educational products.</p>	<p>Begin Access Riser and Effluent Filter Retrofit / Rebate Program</p> <p>Begin routine maintenance inspections</p> <p>Revive public education and outreach</p> <p>Tackle Enforcement Issues!</p> <p>Creative approaches to staffing and funding</p>

Notes: Population based on U.S. Census, 2000.