

6/14/11

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**Municipality/Organization:** Town of Dennis

**EPA NPDES Permit Number:** MAR041103

**MADEP Transmittal Number:** W-041145

**Annual Report Number  
& Reporting Period:** No. 8: March 10-March 2011

## NPDES PII Small MS4 General Permit\ Annual Report

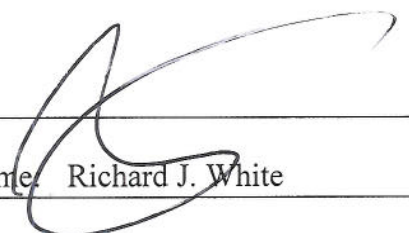
### Part I. General Information

**Contact Person:** Joseph A. Rodricks **Title:** Town Engineer

**Telephone #:** 508-760-6145 **Email:** jrodricks@town.dennis.ma.us

### Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature:** 

**Printed Name:** Richard J. White

**Title:** Town Administrator

**Date:** 5/31/11



## **Part II. Self-Assessment**

The Town of Dennis has completed the required self-assessment and has determined that our municipality is currently in compliance with all permit conditions. During the past year various responsible Town Departments have continued to educate the public on protecting our waterways, monitored and enforced protection standards and installed various BMPs to improve water quality standards.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

| BMP ID # | BMP Description                  | Responsible Dept./Person Name                | Measurable Goal(s)                                 | Progress on Goal(s) – Permit Year<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                      | Planned Activities – next Permit Year                                                                                                                                                                                                                                                                               |
|----------|----------------------------------|----------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1      | Provide literature & pamphlets   | Director of Natural Resource, Karen Johnson, | Provide literature w/ off-road & shellfish permits | Brochures in information tree in office with the theme “Think Globally-Act Locally”.<br><br>Purchased educational kiosks for Crowe’s Pasture Conservation Area and Chapin Beach educating public and conservation management                                                                                                                     | Continue to expand and update brochure selection.<br>Display educational material in the kiosks at Crowe’s Pasture Conservation Area and Chapin Beach for educating public and conservation management.<br>Educational information provided through the Town of Dennis web page under Natural Resources Department. |
| Revised  |                                  |                                              |                                                    |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                     |
| 1.2      | Provide Public awareness classes | Shellfish Officer Alan Marcy                 | Provide Information to school children             | CRABS, (Commercial Recreational Association for Better Shellfish) held educational events to promote shellfish, clean herring runs, quahog seeding, oyster farming, and other educational instruction with a web site <a href="http://www.denniscrabs.com">www.denniscrabs.com</a><br>Provided educational program at the Dennis Public Library. | Continue to expand CRAB volunteer programs and activities aimed at educating public on aqua culture and pollution of estuaries.                                                                                                                                                                                     |
| Revised  |                                  |                                              |                                                    |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                     |
| 1.3      | Provide Literature & Information | Town Engineer J. Rodricks                    | Provide literature & Information to public         | Posters distributed by Cape Co Groundwater Guardian Project maintained at Dennis DPW building.<br>Participated as active member in Barnstable County “PROJECT STORM”<br>Department webpage has link to NPDES website and is periodically updated.                                                                                                | Continue to improve website to include information and project related information.<br>Continue to work with other Cape communities in public outreach under the Barnstable County “Project Storm” initiative                                                                                                       |
| Revised  |                                  |                                              |                                                    |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                     |

#### 1a. Additions

|     |                                    |                                 |                                                                                             |                                                                                                                                                                                                                                         |                                                                                          |
|-----|------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1.4 | Provide Literature and Information | Town Planner,<br>Daniel Fortier | Provide information to the public through the Town of Dennis Planning Department Weblog     | The Planning Department has made use of the Weblog to reach out to residents, property owners and builders to keep them aware of local issues. Stormwater Management and other site design issues are addressed regularly on the Weblog | Continue to provide information on site design and stormwater issues through the Weblog. |
| 1.5 | Provide literature and information | DPW Supt.<br>D. Johansen        | Provide 'Project Storm' booklets and workbooks to children as well as pamphlets for adults. | DPW maintained a booth at April 3, 2010 Community Fair and August 4, 2010 National Night Out.                                                                                                                                           | Continue to have educational booth at Community Fair and National Night Out.             |
|     |                                    |                                 |                                                                                             |                                                                                                                                                                                                                                         |                                                                                          |

## 2. Public Involvement and Participation

| BMP ID #       | BMP Description                                               | Responsible Dept./Person Name                                          | Measurable Goal(s)                                                                             | Progress on Goal(s) – Permit Year<br>(Reliance on non-municipal partners indicated, if any)                                                                                           | Planned Activities – next Permit Year                                                                                                                                                                                                                                 |
|----------------|---------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1<br>Revised | Sponsor & Advertise Household Hazardous Waste Collection Days | Board of Health, Dennis Water District<br>Terry Hayes, Health Director | Encourage proper disposal of hazardous materials                                               | Two (2) Household Hazardous Waste Collection Days held: June 5, 2010 with 2993 gallons and 13,050 pounds collected; and Sept. 11, 2010 with 2745 gallons and 12,090 pounds collected. | Two (2) Household Hazardous Waste Collection Days to be held June and September 2010. Continue to do advertisements & mailings to residents and businesses that are small quantity generators                                                                         |
| 2.2<br>Revised | Volunteer Coast Sweep                                         | Natural Resources - Karen Johnson                                      | Annual Beach Cleaning                                                                          | One day coastal sweep 2010 was cancelled due to inclement weather.                                                                                                                    | Repeat & expand Coastal Sweep in September 2011.<br>Expand volunteer network to monitor and clean conservation areas periodically.                                                                                                                                    |
| 2.3<br>Revised | Pet waste management                                          | Animal Control Officer-                                                | Provide disposal mitts and waste receptacles at Town Beaches<br>Create "Waste Disposal" By-law | Additional Dog Waste Mitt dispensers installed. Additional cases of mitts purchased.                                                                                                  | Propose higher fines for dog waste violations and restrictions in public places. This will be discussed at STM in Fall 2011.<br><br>Work on improvements to Dog Park and increase enforcement hours for enforcement of ordinances prohibiting animals on the beaches. |
| 2.4<br>Revised | Proper Disposal of Boat Septic Storage Tanks                  | Harbor Master-Terrence Clen                                            | Notify Boat Owners annually                                                                    | Posted notices and flyers sent promoting pump-out facility installed at Sesuit Harbor.<br><br>Complete waterways study for permitting and dredging needs.                             | Continue to promote use of Sesuit Harbor pump-out in several local magazines and direct notifications to boaters. Permitting underway for dredging projects in Sesuit Harbor that may increase tidal flushing.                                                        |
|                |                                                               |                                                                        |                                                                                                |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |
|                |                                                               |                                                                        |                                                                                                |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |

### 2a. Additions

|     |                    |                                   |                                              |                                                                                                                   |                                                                                    |
|-----|--------------------|-----------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 2.5 | Enforcement Agency | Police Chief<br>Michael<br>Whalen | Enforcement of State<br>Illegal Disposal Law | Enforcement of illegal dumping laws--<br>45 call in CY 2009 and 35 calls in CY<br>2010. 11 calls to date in 2011. | Add literature and information on<br>illegal activities to Department web<br>site. |
|-----|--------------------|-----------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

### 3. Illicit Discharge Detection and Elimination

| BMP ID #       | BMP Description                                 | Responsible Dept./Person Name  | Measurable Goal(s)                         | Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)                                                                                                                                               | Planned Activities – next Permit Year                                                                                                                                |
|----------------|-------------------------------------------------|--------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1<br>Revised | Identify Discharge and Map Discharges           | Town Engineer- Joseph Rodricks | Identify & prioritize                      | Continued to update Outfall map to include spillways and outfalls into non-Federal waters.<br><br>Division St pipeline mapped and screened. Base Mapping completed.                                                                    | Continue GPS all outfalls and spillways and include on proposed GIS mapping system.                                                                                  |
| 3.2<br>Revised | Notify Owners of Violation eliminate using BMP  | Town Engineer Joseph Rodricks  | Identify & eliminate all known discharges. | There was one illicit discharge pipe found during period. Investigation proved that the flow was from a foundation under drain. Screened and no contaminants found. Notified Health and Natural Resource Dept for corrective measures. | Develop mitigation scenarios for Division St outfall pip system.<br><br>Continue to monitor and investigate any reported or uncovered illicit stormwater discharges. |
| 3.3<br>Revised | Enforcement Agency                              | Police Chief Michael Whalen    | Enforcement of Sate Illegal Disposal Law   | Continue to enforce illegal dumping laws. Illegal dumping calls have reduced in CY 2010 over 2009.                                                                                                                                     | Add literature and information on illegal activities to Department web site.                                                                                         |
| 3.4<br>Revised | Illicit Discharge/hazardous Spill investigation | Terry Hayes, Health Director   | Identify and investigate                   | Identified and investigated one (1) hazardous spill. Location involved long-term release of an unknown quantity of VOCs. Enforcement action taken by Mass DEP.                                                                         | Continue to monitor for illicit discharge/hazardous spills.                                                                                                          |
| Revised        |                                                 |                                |                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                      |
| Revised        |                                                 |                                |                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                      |

### 3a. Additions

|     |                                            |                               |                       |                            |                                                       |
|-----|--------------------------------------------|-------------------------------|-----------------------|----------------------------|-------------------------------------------------------|
| 3.4 | Identify and GIS Map Stormwater discharges | Town Engineer Joseph Rodricks | Identify & prioritize | Continue to update mapping | Continue to update mapping with new discharge points. |
|     |                                            |                               |                       |                            |                                                       |

#### 4. Construction Site Storm Water Runoff Control

| BMP ID # | BMP Description                      | Responsible Dept./Person Name        | Measurable Goal(s)                                    | Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)                    | Planned Activities – next Permit Year                                             |
|----------|--------------------------------------|--------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 4.1      | Propose By-law                       | Dennis Board of Selectmen-           | Storm water & erosion control Standards & Enforcement | Stormwater Management Rules and Regulations in effect. Stormwater Permit required for one site development. | Continue education and enforcement of Stormwater Management Rules and Regulations |
| Revised  | <i>Storm water management By-Law</i> | Chair Paul McCormick                 |                                                       |                                                                                                             |                                                                                   |
| 4.2      | Order of Conditions                  | Conservation Commission-Donald Waldo | Eliminate Runoff & erosion during construction.       | Issued Orders of Conditions for construction projects with no discharge allowed.                            | Continue to monitor projects for and the elimination of storm water runoff.       |
| Revised  |                                      | Chairman                             |                                                       |                                                                                                             |                                                                                   |
| 4.3      | Subdivision Rules & Regulations      | Planning Board Rob. Mezzadri,        | Eliminate runoff & erosion during construction.       | Monitored all subdivision plans for possible storm water runoff.                                            | Continue to monitor projects for and the elimination of storm water runoff        |
| Revised  |                                      | Chair                                |                                                       |                                                                                                             |                                                                                   |
| Revised  |                                      |                                      |                                                       |                                                                                                             |                                                                                   |
| Revised  |                                      |                                      |                                                       |                                                                                                             |                                                                                   |
| Revised  |                                      |                                      |                                                       |                                                                                                             |                                                                                   |

#### 4a. Additions

|     |                                     |                                                                                       |                                                                                                                                  |                                                                                                                                                                                                                                  |                                                                                                                                                                                                         |
|-----|-------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.3 | Estuary study                       | Dennis Comprehensive Wastewater Management Task Force.<br>Natural Resource Dept.      | Evaluate Swan River, Swan Pond, Sesuit Creek and Chase Garden Creek and establish Total Maximum Daily Limit for nitrogen loading | Conducted water sampling using DNR staff and volunteers under the direction of the Department of Natural Resources as part of the DEP/SMART study to establish the Total Maximum Daily Limit for Nitrogen Loading for estuaries. | Conducting water sampling using Department of Natural Resources staff and Water Quality Committee volunteers under the direction of the Department of Natural Resources until DEP/SMART study complete. |
| 4.4 | Zoning                              | Zoning Board of Appeals<br>Ernie Oliveira, Chair & Planning Board, R. Mezzadri, Chair | Eliminate runoff and erosion during construction                                                                                 | Monitored all commercial development for possible storm water run-off.<br>Makes recommendations on storm water design and construction.                                                                                          | Continue to monitor projects for and the elimination of storm water runoff.                                                                                                                             |
| 4.5 | Pond and Lake Stewards (PALS) Study | Water Quality Advisory Committee                                                      | Evaluate water quality in Dennis ponds.                                                                                          | Conducted water sampling using WQAC volunteers as part of monitoring water quality in Dennis ponds.                                                                                                                              | Continue SMART contract for sample testing and development of a lake management plan for Scargo Lake.                                                                                                   |

### 5. Post-Construction Storm Water Management in New Development and Redevelopment

| BMP ID # | BMP Description | Responsible Dept./Person Name               | Measurable Goal(s)                                    | Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)    | Planned Activities – next Permit Year                                              |
|----------|-----------------|---------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 5.1      | Propose By-Law  | Board of Selectmen-<br>Chair Paul McCormick | Storm water & Erosion Control Standards & enforcement | Assigned oversight of the Stormwater By-law to the Building Commissioner and Town Engineer. | Monitor Stormwater Management By-law and amend Rules and Regulations as necessary. |
| Revised  |                 |                                             |                                                       |                                                                                             |                                                                                    |
| Revised  |                 |                                             |                                                       |                                                                                             |                                                                                    |
| Revised  |                 |                                             |                                                       |                                                                                             |                                                                                    |
|          |                 |                                             |                                                       |                                                                                             |                                                                                    |

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| Revised |  |  |  |  |  |  |

### 5a. Additions

|     |                                 |                                                                                                   |                                                                                                      |                                                                                         |                                                                                                         |
|-----|---------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 5.2 | Subdivision Rules & Regulations | Planning Board<br>Rob. Mezzadri,<br>Chair                                                         | Require conformity in all subdivisions with the Storm Water and Erosion Control Standards            | Require all subdivisions to meet Town of Dennis Storm Water requirements.               | Continue to require all subdivisions to meet Town of Dennis Storm Water requirements                    |
| 5.3 | Zoning                          | Zoning Board of Appeals<br>Ernie Oliveira,<br>Chair &<br>Planning Board,<br>R. Mezzadri,<br>Chair | Require conformity in all commercial developments with the Storm Water and Erosion Control Standards | Require applicable commercial projects to meet Town of Dennis Storm Water requirements. | Continue to require all applicable commercial projects to meet Town of Dennis Storm Water requirements. |

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID #       | BMP Description                                                                                            | Responsible Dept./Person Name    | Measurable Goal(s)                                      | Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)                                                                                                              | Planned Activities – next Permit Year                                                                                                                                                                                                                                                       |
|----------------|------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1<br>Revised | Street sweeping/ basin cleaning/ roadside mowing                                                           | DDPW Superintendent- D. Johansen | Maintenance of Drainage                                 | Continued to evaluate and prioritize basins to be cleaned targeting areas of greatest potential impact of estuaries.<br><br>Maintain Stormwater BMP for the Bass River/Kelly's Bay/Follin's Pond area | Update catch basin and street sweeping program prioritizing basins in areas of greatest potential impact on water bodies and estuaries. Seek funding to increase number of basins cleaned.<br><br>Continue to maintain all Stormwater BMPs for the Bass River/Kelly's Bay/Follins Pond area |
| 6.2<br>Revised | Existing enclosed salt storage.                                                                            | DPW Superintendent D. Johansen   | Exposure reduction                                      | Maintain existing enclosed operations.                                                                                                                                                                | Continue to maintain existing enclosed operations.                                                                                                                                                                                                                                          |
| 6.3<br>Revised | Regular vehicle maintenance                                                                                | DPW Superintendent- D. Johansen  | Exposure reduction                                      | Regular vehicle maintenance instituted                                                                                                                                                                | Continue to refine and update maintenance programs. Implement "Equipment Tracker" operations program.                                                                                                                                                                                       |
| 6.4<br>Revised | Existing enclosed vehicle storage & wash bay.<br><i>Schedule weekly vehicle cleaning &amp; assessment.</i> | DPW Superintendent- D. Johansen  | Exposure reduction                                      | Maintain existing enclosed operations.                                                                                                                                                                | Continue to maintain existing enclosed operations.                                                                                                                                                                                                                                          |
| 6.5<br>Revised | Invite NEIWPCC to speak<br><i>Employees education</i>                                                      | DPW Superintendent- D. Johansen  | Provide information to employees<br>Exposure reduction. | Enroll employees into seminars and demonstrations promoted by Bay State Roads and other organizations as they are scheduled.                                                                          | Continue to enroll employees into seminars and demonstrations promoted by Bay State Roads and other organizations as they are scheduled.                                                                                                                                                    |
| 6.6            | Tidal stream cleanup.                                                                                      | Shellfish Officer A. Marcy       | Pollutant removal                                       | Worked with the "Cape Cod Salties" volunteers to clean up the Bound Brook herring run. Worked with CRABS                                                                                              | Repeat and expand cleanup to other locations.                                                                                                                                                                                                                                               |

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| Revised |  |  |  |  |  |
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### 6a. Additions

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# 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable >>

| BMP ID #       | BMP Description                                                                          | Responsible Dept./Person Name                           | Measurable Goal(s)                                             | Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)                                                                                                              | Planned Activities – next Permit Year                                                                                                                                           |
|----------------|------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1<br>Revised | Installation of leaching drainage systems                                                | Town Engineer J. Rodricks                               | Exposure reduction                                             | Completed installation of several BMPs on New Boston Rd (Chase Garden Ck), Indian Pond Rd (Weir Ck estuary), Chase Ave. (Nantucket Sound) and Trotting Park Road. (Swan Pond River)                   | Install remediation measures on Greenland Cir (Cedar Pond); West Dennis Beach (Weir Ck), Aunt Julia Ann Landing (Bass River)                                                    |
| 7.2<br>Revised | Water quality sampling                                                                   | Natural Resources Dept. Alan Marcy, Shellfish Constable | Ensure water quality                                           | Samples taken in Scargo Lake, Hiram Pond, Coles Pond and Fresh Pond. Contract with SMAST to obtain additional data on Scargo Lake water quality.                                                      | Continue and refine sampling program. Conduct monitoring in 2011. Finalize SMAST contract to develop lake management plan for Scargo Lake.                                      |
| 7.3<br>Revised | Use compost material to stabilize shoulders                                              | DPW Superintendent D. Johansen                          | Erosion control                                                | Stabilized slopes and minimized runoff at Sea View Park, and Bass River Park.                                                                                                                         | Continue and improve slope stabilization where necessary                                                                                                                        |
| 7.4<br>Revised | Coastal Pollutant Remediation Program                                                    | Town Engineer J. Rodricks                               | Exposure Reduction and/or elimination                          | Town installed pollution mitigation measures at 4 locations on Country Circle.                                                                                                                        | Apply for Federal funding for Rte 28 at Bass River design and mitigation measures on Division St outfall pipe into Pound Pond (tidal, Nantucket Sound). Repeat testing program. |
| 7.5<br>Revised | Weekly Water Sampling of Beaches<br><i>Water sampling o beaches during summer weeks.</i> | Town Health Director Terry Hayes                        | Ensure water quality                                           | Weekly sampling of 22 beaches June thru August weekly Additional tests taken on days of 1" or greater rainfall. During summer of 2010 there were three (3) beach closures resulting in 3 days closed. |                                                                                                                                                                                 |
| 7.6            | Salt Marsh Restoration program                                                           | Director of Natural Resource                            | Increase tidal flushing and improve fish and wildlife habitat. | Monitored and maintained herring runs. Conducted vegetation removal with volunteers.                                                                                                                  | Coordinate with state agencies, COE and Town of Yarmouth for Bass River Railroad Bridge re-design.                                                                              |

|         |            |  |  |  |
|---------|------------|--|--|--|
| Revised | K. Johnson |  |  |  |
|---------|------------|--|--|--|

## 7a. Additions

|     |                                 |                              |                    |                                         |                                                                        |
|-----|---------------------------------|------------------------------|--------------------|-----------------------------------------|------------------------------------------------------------------------|
| 7.7 | Installation of Porous Pavement | Town Engineer<br>J. Rodricks | Exposure Reduction | No porous pavement installed in period. | Propose installation of porous pavement at West Dennis Beach entrance. |
|     |                                 |                              |                    |                                         |                                                                        |

## 7b. WLA Assessment

In 2002 the Town identified the Bass River and Kelley's Bay area as the highest priority for immediate implementation of BMP solutions. Working with the Town of Yarmouth, most outfall locations along this water body have been identified and BMP solutions installed. The Town continues to seek funds to address mitigation measures for the MassDOT Route 28 outfall which flows into Bass River. The Town has also identified the MassDOT Route 28 outfall into Swan Pond River as a stormwater pollutant source.

The evaluation of the Division Street drainage system that drains a significant portion of Dennisport Center into Pound Pond, a tidal creek continued during the last year. All connections to the system have been identified, screened and mapped. No illicit connections into the system were found. A final report with recommended BMPs for stormwater management is due in September 2011.

#### Part IV. Summary of Information Collected and Analyzed

A total of 22 Town beaches were tested on a weekly basis during the months of June, July and August 2011 and resulted in three (3) days of beach closures.

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

##### Programmatic

|                                                 |       |          |
|-------------------------------------------------|-------|----------|
| Storm water management position created/staffed | (y/n) | yes      |
| Annual program budget/expenditures              | (\$)  | \$80,000 |
|                                                 |       |          |
|                                                 |       |          |

##### Education, Involvement, and Training

|                                                                         |               |                |
|-------------------------------------------------------------------------|---------------|----------------|
| Estimated number of residents reached by education program(s)           | (# or %)      | 5 %            |
| Storm water management committee established                            | (y/n)         | Yes            |
| Stream teams established or supported                                   | (# or y/n)    | No             |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (no)          | 0              |
| Household Hazardous Waste Collection Days                               |               |                |
| ▪ days sponsored                                                        | (#)           | 2              |
| ▪ community participation                                               | (%)           | 613 households |
| ▪ material collected                                                    | (tons or gal) | 5201 gal       |

|                              |       |    |
|------------------------------|-------|----|
| School curricula implemented | (y/n) | No |
|                              |       |    |
|                              |       |    |

### Legal/Regulatory

|                                                    | In Place<br>Prior to<br>Phase II | Under<br>Review | Drafted | Adopted |
|----------------------------------------------------|----------------------------------|-----------------|---------|---------|
| Regulatory Mechanism Status (indicate with "X")    |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        | X                                |                 |         |         |
| ▪ Erosion & Sediment Control                       |                                  |                 |         | X       |
| ▪ Post-Development Stormwater Management           |                                  |                 |         | X       |
| Accompanying Regulation Status (indicate with "X") |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        | X                                |                 |         |         |
| ▪ Erosion & Sediment Control                       |                                  |                 |         | X       |
| ▪ Post-Development Stormwater Management           |                                  |                 |         | X       |

### Mapping and Illicit Discharges

|                                        |            |       |
|----------------------------------------|------------|-------|
| Outfall mapping complete               | (%)        | 100%  |
| Estimated or actual number of outfalls | (#)        | 90    |
| System-Wide mapping complete           | (%)        | 80%   |
| Mapping method(s)                      |            |       |
| ▪ Paper/Mylar                          | (%)        | 100 % |
| ▪ CADD                                 | (%)        | 70 %  |
| ▪ GIS                                  | (%)        | 70 %  |
| Outfalls inspected/screened            | (# or %)   | 100%  |
| Illicit discharges identified          | (#)        | 1     |
| Illicit connections removed            | (#)        | 0     |
|                                        | (est. gpd) |       |
| % of population on sewer               | (%)        | 0 %   |
| % of population on septic systems      | (%)        | 100 % |

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### Construction

|                                                                                                   |  |     |
|---------------------------------------------------------------------------------------------------|--|-----|
| Number of construction starts (>1-acre)                                                           |  | 1   |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control |  | 100 |
| Site inspections completed                                                                        |  | 4   |
| Tickets/Stop work orders issued                                                                   |  | 0   |
| Fines collected                                                                                   |  | 0   |
| Complaints/concerns received from public                                                          |  | 0   |
|                                                                                                   |  |     |
|                                                                                                   |  |     |

### Post-Development Storm Water Management

|                                                                                                                           |          |      |
|---------------------------------------------------------------------------------------------------------------------------|----------|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction storm water control | (%)      | 100  |
| Site inspections completed                                                                                                | (# or %) | 1    |
| Estimated volume of storm water recharged                                                                                 | (gpy)    | 132K |
|                                                                                                                           |          |      |
|                                                                                                                           |          |      |

### Operations and Maintenance

|                                                                                                |             |               |
|------------------------------------------------------------------------------------------------|-------------|---------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | (times/yr)  | 1 every 3 yrs |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | (times/yr)  | 1 every yr    |
| Total number of structures cleaned                                                             | (#)         | 148           |
| Storm drain cleaned                                                                            | (LF or mi.) | 95 LF         |
| Qty. of screenings/debris removed from storm sewer infrastructure                              | (tons)      | 888           |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |             | Landfill      |
| Cost of screenings disposal                                                                    | (\$)        | 0             |

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|--------------------------------------------------------------------------------------|----------------|----------|
| Average frequency of street sweeping (non-commercial/non-arterial streets)           | (times/yr)     | 1 yr     |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr)     | 3 x /yr  |
| Qty. of sand/debris collected by sweeping                                            | (lbs. or tons) | 720 tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                | (location)     | Landfill |
| Cost of sweepings disposal                                                           | (\$)           | 0        |
| Vacuum street sweepers purchased/leased                                              | (#)            | 1        |
| Vacuum street sweepers specified in contracts                                        | (y/n)          | 0        |
|                                                                                      |                |          |
|                                                                                      |                |          |

|                                                                                        |             |    |
|----------------------------------------------------------------------------------------|-------------|----|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) |             |    |
| ▪ Fertilizers                                                                          | (lbs. or %) | 5% |
| ▪ Herbicides                                                                           | (lbs. or %) | 5% |
| ▪ Pesticides                                                                           | (lbs. or %) | 5% |
|                                                                                        |             |    |
|                                                                                        |             |    |

|                                                          |  |                     |     |
|----------------------------------------------------------|--|---------------------|-----|
| Anti-/De-Icing products and ratios                       |  | % NaCl              | 50% |
|                                                          |  | % CaCl <sub>2</sub> | 32% |
|                                                          |  | % MgCl <sub>2</sub> | 0%  |
|                                                          |  | % CMA               | 0%  |
|                                                          |  | % Kac               | 0%  |
|                                                          |  | % KCl               | 0%  |
|                                                          |  | % Sand              | 50% |
| Pre-wetting techniques utilized                          |  | (y/n)               | y   |
| Manual control spreaders used                            |  | (y/n)               | y   |
| Automatic or Zero-velocity spreaders used                |  | (y/n)               | y   |
| Estimated net reduction in typical year salt application |  | (lbs. or %)         | 0%  |
| Salt pile(s) covered in storage shed(s)                  |  | (y/n)               | y   |
| Storage shed(s) in design or under construction          |  | (y/n)               | n   |



