

Municipality/Organization : Town of Rehoboth
EPA NPDES Permit Number: MAR041152
MassDEP Transmittal Number: W-041314
Annual Report Number & Reporting Period: April 1, 2013 – March 31, 2014

9/10/12
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8/5/14

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2014)

Part I. General Information

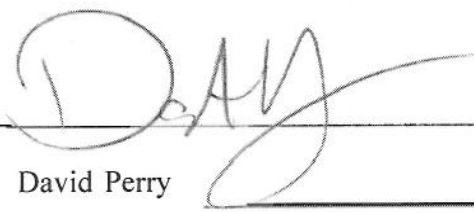
Contact Person: David Perry Title: Stormwater Officer

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Email: liscoirrigation@comcast.net

Mailing Address: 148 Peck St. Rehoboth, Ma. 02769

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: David Perry

Title: Stormwater Officer

Date: 7/25/14

Part II. Self-Assessment

The Town of Rehoboth has completed the required assessment and has determined that the municipality is in Complete compliance with twenty- seven [27] of the permit conditions including:

- BMP 1.1 Public education: Have reached 100% of residents in Rehoboth
- BMP1.2 Stormwater Informational: Have videos running on public access channel
- BMP1.3 Form Partnership: Have had dialog with state Highway officials about bridge and culvert repairs
- BMP1.4 Informational Library: Stormwater materials accessible at Town Hall, C.O.A, and public library
- BMP1.5 Educational Bulletin Board: We have three [3] public bulletin boards in town with stormwater material on them
- BMP1.6 Tributary Signage: We have identified six [6] locations in Town signs are installed.
- BMP2.1 Stormwater committee: On going for almost five [5] years . Forming new committee
- BMP2.2 Public Meetings on By-Law: AH stormwater meeting are advertised as public meetings
- BMP2.3 Roadside Cleanup: The Rehoboth Business Association has a cleanup every April
- BMP 3.1 Stormwater Committee: Appointed by the Board of Selectmen September 2008/Proposed change in 2013 Met with CC and Planning Board the streamline process
- BMP3.2 By-Law Stormwater: Enforced
- BMP3.3 Storm Sewer Map: Done on CD and G.P.S
- BMP3.4 Oil Drop-Off: Done once a year at our Highway Dept.
- BMP3.5 Detection Plan: Our Stormwater Officer and Conservation office receive complaints and respond
- BMP3.6 Educate Public Employees and Businesses: Deliver or Mail Stormwater Material /Person communication
- BMP4.1 Erosion Control: Stormwater Officer, Conservation and Planning Board, also included in Permit application
- BMP4.2 Site Plan Review: Done by Conservation and Planning Board and Stormwater Committee.
- BMP4.3 Mechanism for Site Inspection: Being done by our Conservation agent. And / or Stormwater Officer.
- BMP4.4 Sanction for Compliance: In new By-law.
- BMP4.5 Procedure for Receiving Info from Public: Complaints logged with Conservation Office & Stormwater Officer BMP4.6 Certification for Contractors: In our new By-law

BMPS.1 BMP O&M Plan for Development: In new By-law

BMPS.2 Use of Structural or Non-Structural BMPs: In our Sub-Division control law and Stormwater By-Law .

BMPS.3 Post-Construction Runoff: In our sub-division control laws, Town by-laws and Stormwater By-laws.

BMPS.4 Certification for Property/Business Owners: Being done though our Stormwater Committee by having businesses keep logs on drainage cleaning

BMP6.1 O&M Plan for Town Properties/Structures: Procedures for Street Sweeping and catch basin cleaning

BMP6.2 Employee Training: The Stormwater committee is made up of members of most Boards and Dept. in Town there are bring their training back to their Dept.

The Town of Rehoboth has appointed a Stormwater Committee and Stormwater Officer to be responsible for fulfilling many of the requirements of this MS4 General permit.

In April 2008 the Town of Rehoboth Stormwater by-law went into effect. Signage for resource areas needing extra protection and public awareness have been purchased and erected. Stencils have been created to mark catch basins in town to further protect the resource areas from stormwater runoff. Additional trash receptacles have been purchased and placed where the Committee has become aware of that trash maybe reaching our resource areas. The Stormwater Committee has continued to follow up on resident's complaints and concerns. Permits have come before the Stormwater Committee for review and approval. The Stormwater Committee and Stormwater Officer have answered 4 complaints and have resolved or answered all.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach Maintain up to date materials at all town locations

| BMP ID# | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s)- Permit Year 10 (Reliance on non-municipal partners indicated, if any) | Planned Activities- Permit Year 11 |
|---------|-----------------------------------|-------------------------------|---|--|---|
| 1.1 | Public Education Outreach Program | Stormwater Committee | Reach 100% of residents | Publish in local paper articles | Continue reaching out to the public |
| Revised | | | | | |
| 1.2 | Stormwater Informational Videos | Stormwater Committee | Reach all households with cable access | Continue running videos also make our own video in our Town showing BMPs and videos from the EPA sit | Continue running videos also make our own video in our Town showing BMPs and videos from the EPA site |
| Revised | | | | | |
| 1.3 | Form Partnership | Highway Supt. | Address Stormwater concerns along state highway s | Rebuild or installed rip-rap swales at pt discharges, Clear culverts and repair wash-outs along roads. | Continue to clear blocked Culvert and maintain Numerous outflows and Culverts. |
| Revised | | | | | |
| 1.4 | Informational Library | Stormwater Committee | Maintain Stormwater material up to date | Maintain up to date materials at all town locations | Maintain up to date materials at all town locations |
| Revised | | | | | |
| 1.5 | Educational Bulletin Board | Stormwater Committee | Target visitors to all Town locations | Maintain up to date materials on all Town Bulletin Boards | Have been trying to maintain up to date materials at Town Bulletin boards with little or no funds. |
| Revised | | | | | |
| 1.6 | Tributary Signage | Highway Supt. | Identify Valuable resource areas | Small amount of funds available | Small amount of funds available |

2. Public Involvement and Participation

| BMP ID# | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) - Permit Year 10 (Reliance on non-municipal partners indicated, if any) | Planned Activities - Permit Year 11 |
|---------|-----------------------------------|-------------------------------|---|---|--|
| 2.1 | Stormwater Committee | Board of Selectman | To regulate the by-law and anything pertaining to the regulation | To continue upgrading the Town Stormwater by-laws. Reviewing Stormwater Permits. | Met with Planning and Conservation to review the Stormwater permitting Process and propose procedural changes. |
| Revised | | | | | |
| 2.2 | Public Meetings to discuss by-law | Stormwater Officer | Inform and received information from the public and business sector | Continue attending meetings with boards to insure by-law is implemented. | Met with planning and To discuss combining Permits. |
| Revised | | | | | |
| 2.3 | Roadside Clean-up | Rehoboth Business Association | To reduce roadside waste entering drainage system | Boy and girl scouts performed road side clean-ups as well as private citizens and groups. | To extend our clean-up to Sept each year as well as April Promote year round clean-ups |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

2a. Additions

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3. Illicit Discharge Detection and Elimination

| BMP ID# | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s)- Permit Year 10 (Reliance on non-municipal partners indicated, if any) | Planned Activities - Permit Year 11 |
|---------|---|---|---|---|--|
| 3.1 | Stormwater Committee | Committee and Stormwater Officer | Person in charge of enforcement and BMPs | Administrative Aide. Position approved and financed. | Continue to Promote and enforce Stormwater by-law. Conservation agent passes info on to citizens and Stormwater Officer. |
| Revised | | | | | |
| 3.2 | By-Law prohibiting Stormwater Discharge with enforcements | Stormwater Committee Stormwater Officer | Legal mechanism to control and enforce stormwater runoff | Continue to uphold by-law | Continue to upgrade our by-law to include new BMPs Work closely with both CC and Planning as both boards have jurisdiction over by-law. Keep up to date with DPW |
| Revised | | | | | |
| 3.3 | Stormwater Sewer System Map | Stormwater Officer | Map all catch basins in Town | Continue to locate all non-structure drainage on our Town roadways, 4 added | Continue mapping any new catch basins and Stormwater drainage structures. |
| Revised | | | | | |
| 3.4 | Oil Drop Off Days | Highway Dept. | Reduction in potential illicit discharge | We have 2 collection days a year | Implement more collection days |
| Revised | | | | | |
| 3.5 | Detection Plan | Stormwater Officer and Highway Supt. | Respond to complaints and inquiries within 48 hours and maintain logs | Responded to complaints and concerns within 24 hrs. Meet on 4 private calls and 2 municiple. | To respond to complaints and find solutions and maintain laws. Found that face to face fast response gets best results. |
| Revised | | | | | |

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|---------|--|----------------------|--|--|--|
| 3.6 | Educate Public, Employees and Businesses about illegal discharge | Stormwater Committee | Hold workshops on Stormwater discharge and | Had more meetings and worked on bringing Stormwater, Planning and CC up to speed on the by-law | Continue to attend planning board meetings and meet with DPW employees and head. |
| Revised | | | | | |

3a. Additions

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4. Construction Site Stormwater Runoff Control

| BMP ID# | BMP Description | Responsible Dept./Person | Measurable Goal(s) | Progress on Goal(s)- Permit Year 10 (non-municipal partners indicated, if any) | Planned Activities - Permit Year11 |
|---------|---|---|--|---|---|
| Revised | Stormwater By-law | Stormwater Committee Stormwater Officer | Legal Mechanism to control stormwater discharge | Educated developers of our by-law and permitting process as well as new applicants. | Streamline application process with Planning & Conservation Commission. |
| 4.1 | Site Plan review Procedure | Conservation and Planning Board Stormwater Committee | To guide contractors in the proper way of controlling erosion and sediment | looked for alternatives such as drainage pools and structures to reduce TSS in our resource areas | To look at new ideas on erosion and sediment control and new ways to minimize new impact. Have a more visible presence and be more hands on. |
| Revised | | | | | |
| 4.2 | Mechanism for Site inspection and enforcement | Stormwater Officer and Highway | Enforcement and Inspection written in by-law | Made site inspections and met with developers on site | Stormwater Officer continues inspect sites and meet with developers on site. |
| | Sanctions to Ensure Compliance | Stormwater Committee Stormwater Officer and Highway Supt | Sanctions and fines in new by-law | Now have sanctions and penalty build in by-law. | Now have sanctions and penalty build in by-law. |
| 4.3 | | | | | |
| Revised | | | | | |

| | | | | | |
|---------|--|----------------------------------|--|---|--|
| 4.5 | Procedure for Receiving info from Public | Stormwater Officer and Town Hall | Respond to complaints and inquiries | To have complaints go to one location to log and assign the proper dept | All complaints go to Stormwater Office are logged and filed. |
| Revised | | | | | |
| 4.6 | Certification Procedure for Contractors | Stormwater Committee | To have Contractors prove their knowledge of Stormwater BMPs | Engineers are certified, made sure contractors followed engineered plan | Continue to make sure applications are complete and contractors are certified and of knowledgeable |
| Revised | | | | | |

4a. Additions



S. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID# | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s)- Permit Year 10 | Planned Activities - Permit Year 11 |
|---------|---|-------------------------------|--|--|--|
| 5.1 | BMP Operations & Maintenance Plan | Stormwater Committee | Mechanism to require O&M plan and be able to inspect and enforce | O&M plan with Conservation committee And planning. | Continued to require filing an O&M plan with the Stormwater Committee and officer. Develop spreadsheet so Officer can track O&M plans for compliance |
| Revised | | | | | |
| 5.2 | Establish Standards For Structural or Non-Structural BMPs | .Committee and Planning Broad | To require Structural or non-structural BMPs | enforced our by-laws to upgrade our BMPs | To require contractors to use structural or non-structural BMPs and fine new ways to improve these BMPs |

| | | | | | |
|---------|--|---|---|---|--|
| Revised | | | | | |
| 5.3 | Post Construction runoff Controls | Cons. Com Planning Board Stormwater Comm. | To control runoff in and around construction site | Continued to make sure requirements are met during construction but focusing also on perpetual maintenance of run-off controls. | Continued to monitor sites During and post construction. |
| Revised | | | | | |
| 5.4 | Certification Procedure for Property/Business Owners | Stormwater Committee Stormwater Officer | Require Business Owners to be familiar with their O&Mplan | Make sure Business owners follow up on required inspections and certifications on their O&M plan. | Continue to have record keeping and inspection by Town |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

Sa. Additions

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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 10 (Reliance on non-municipal partners indicated, if any) | Planned Activities - Permit Year 11 |
|---------|--|--|---|--|--|
| 6.1 | O&M plan for Municipal Properties/Structures | Stormwater Committee & Highway Dept. | Prevent and or reduce pollutants runoff from municipal drainage | Trying to maintain all O&M plans with limited funds. Worked with DPW. DPW did a good job with head well maintenance. | Continue to street sweeping, catch basin cleaning, fire water hole cleaning, stream and river head walls along our public roadways cleaned |
| Revised | | | | | |
| 6.2 | Employee Training | Stormwater Committee and Highway Dept. | Train all Highway and BOH employees on municipal procedures | Meet with DPW on site and had pre-construction meetings | Meet with DPW on site as well as periodic office meetings to discuss target projects. |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

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 N/A | Responsible Dept./Person Name | Measurable Goal(s) | Progress - On Goal(s) - Permit Year (Reliance on non-municipal partners indicated, if any) | Planned Activities - Permit Year |
|---------|------------------------|-------------------------------------|--------------------|---|-------------------------------------|
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Stormwater Committee has reviewed plans and issued permits. The Highway Dept. has continued to improve roadside drainage and swales. We have seen a great improvement in the way we handle Stormwater in our Town. Surface discharges have been cleared and rip-rap swales installed, over plows cleaned on 8 stream crossings.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

| | | |
|---|-------|-------------|
| Stormwater management position created/staffed! | (y/y) | yes |
| Annual program budget/expenditures ** | \$ | \$500.00 |
| Total program expenditures since beginning of permit coverage | (\$) | \$14,000.00 |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) | GF | \$500.00 |

Education, Involvement, and Training

| | | |
|---|---------------|-----------|
| Estimated number of property owners reached by education program(s) | 100% | 70% |
| Stormwater management committee established | (y/n) | Yes |
| Stream teams established or supported | (#or y/n) | Yes |
| Shoreline clean-up participation or quantity of shoreline miles cleaned** | (y/n or mi.) | YES ** |
| Shoreline cleaned since beginning of permit coverage | (mi.) | 3 miles** |
| Household Hazardous Waste Collection Days | | |
| <ul style="list-style-type: none"> • days sponsored ** | (#) | 2 |
| <ul style="list-style-type: none"> • community participation** | (#or%) | 50% |
| <ul style="list-style-type: none"> • material collected ** | (tons or gal) | 4000 gal |
| School curricula implemented | (y/n) | Yes ** |

Legal/Regulatory

In Place

Re

viewing

Dra

ft

| Regulatory Mechanism Status (indicate with "X") | Prior to | Existing | In | Adopted |
|--|----------|-------------|---------|---------|
| | Phase II | Authorities | Drafted | Review |
| • Illicit Discharge Detection & Elimination | | | | X |
| • Erosion & Sediment Control | X | | | X |
| • Post-Development Stormwater Management | | | | X |
| Accompanying Regulation Status (indicate with "X") | | | | |
| • Illicit Discharge Detection & Elimination | | | | X |
| • Erosion & Sediment Control | X | | | X |
| • Post-Development Stormwater Management | | | | X |

Mapping and Illicit Discharges

| | (Preferred Units) | | R' |
|--|---------------------|-----|--------|
| | (%) | (#) | |
| Outfall mapping complete | | | 85% ** |
| Estimated or actual number of outfalls | | | 83 |
| System-Wide mapping complete (complete storm sewer infrastructure) | | | 100% |
| Mapping method(s) | | | |
| • Paper/Mylar | (%) | | |
| • CADD | (%) | | 100% |
| • GIS | (%) | | 100% |
| Outfalls inspected/screened ** | (# or%) | | 60% ** |
| Outfalls inspected/screened (Since beginning of permit coverage) | (# or%) | | 60% |
| Illicit discharges identified ** | (#) | | 10 ** |
| Illicit discharges identified (Since beginning of permit coverage) | (#) | | 67 |
| Illicit connections removed ** | (#); and (est. fld) | | 13 |
| Illicit connections removed (Since beginning of permit coverage) | (#); and (est. fld) | | 13 |
| % of population on sewer | (%) | | 0% |
| % of population on septic systems | (%) | | 100% |

Construction

| | | |
|--|-----------|---------|
| Number of construction starts (> 1-acre) ** | (#) | 1 |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%) | 100% ** |
| Site inspections completed ** | (#or%) | 0% ** |
| Tickets/Stop work orders issued ** | (#or%) | 0 ** |
| Fines collected** | (# and\$) | None |
| Complain s/concerns received from public ** | (#) | 4** |

Post-Development Stormwater Management

| | | |
|--|--------|---------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 100% ** |
| Site inspections (for proper BMP installation & operation) completed ** | (#or%) | 0 ** |
| BMP maintenance required through covenants, escrow, deed restrictions, etc. | (yin) | N |
| Low-impact development (LID) practices permitted and encouraged | (yin) | N |

Operations and Maintenance

| | | |
|---|----------------|------------------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)** | (times/yr) | 1 time/ Plus as needed |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)** | (times/yr) | 1 time |
| Qty of structures cleaned ** | (#) | 1008 |
| Qty. of storm drain cleaned** | (%, LF or mi.) | 380' ** |
| Qty. of screenings/debris removed from storm sewer infrastructure** | (lbs. or tons) | 250 Ton |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Highway Dept |

| Basin Cleaning Costs | | | |
|---|-------------------------|------------------------|--|
| • Annual budget/expenditure (labor & equipment)** (town owned) | (\$) | \$0..In hose HWY Dept. | |
| • Hourly or per basin contract rate** (no contract- Hwy employee) | (\$/hr or \$ per basin) | \$0 | |
| • Disposal cost** | (\$) | 0 | |
| Cleaning Equipment | | | |
| • Clam shell truck(s) owned/leased | (#) | 1 | |
| • Vacuum truck(s) owned/leased | (#) | 0 | |
| • Vacuum trucks specified in contracts | (Y/n) | 0 | |
| • % Structures cleaned with clam shells** | (%) | 100% | |
| • % Structures cleaned with vactor * * | (%) | 0% ** | |

| Average frequency of street sweeping (non-commercial/non-arterial streets)** | (times/yr) | 2 | |
|---|--------------------|---------------|--|
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr) | 2 | |
| Qty. of sand/debris collected by sweeping ** | (lbs. or tons) | 1,000 tons | |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Highway Dept. | |
| Annual Sweeping Costs | | | |
| • Annual budget/expenditure (labor & equipment)** | (\$) | \$20,000 | |
| • Hourly or lane mile contract rate ** | (\$/hr. or Ln mi.) | \$70.00 /hr | |
| • Disposal cost** | (\$) | Highway | |
| Sweeping Equipment | | | |
| • Rotary brush street sweepers owned/leased | (#) | 3 | |
| • Vacuum street sweepers owned/leased | (#) | 0 | |
| • Vacuum street sweepers specified in contracts | (y/n) | 0 | |
| • % Roads swept with rotary brush sweepers ** | % | 100% | |
| • % Roads swept with vacuum sweepers ** | % | 0 | |

| | |
|--|-------------------|
| Reduction (since beginning of permit coverage) in application on public land of: (*N/A" = never used; "100%" = elimination) | |
| • Fertilizers | (Lbs. or%) 200lbs |
| • Herbicides | (Lbs. or%) N/A |
| • Pesticides | (Lbs. or%) N/A |
| Integrated Pest Management (IPM) Practices Implemented | (Yin) Yes |

| | | |
|---|--|--|
| Average Ratio of Anti-Ice-Ing products used** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | %NaCl % CaClz %MgCb %CMA %Kac %KCl %Sand % salt | N/A N/A N/A N/A N/A N/A 80% 20% |
| Pre-wetting techniques utilized ** | (Yin or%) | no |
| Manual control spreaders used ** | (Yin or%) | 10 ** |
| Zero-velocity spreaders used** | (Yin or%) | no |
| Estimated net reduction or increase in typical year salt/chemical application rate | (±lbs/lb mi. or%) | 10% - ** |
| Estimated net reduction or increase in typical year sand application rate ** | (±lbs/lb mi. or%) | 10%- ** |
| % of salt/chemical pile(s) covered in storage shed(s) | (%) | 100% |
| Storage shed(s) in design or under construction | (Yin or#) | yes |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2013 | (Yin) | 100% |

Water Supply Protection

| | # or y/n | Yes |
|---|----------|-----|
| Storm water outfalls to public water supplies eliminated or relocated | # or y/n | Yes |
| Installed or planned treatment BMPs for public drinking water supplies and their protection areas | # or y/n | Yes |
| <ul style="list-style-type: none"> ● Treatment units induce infiltration within 500-feet of a wellhead protection area | # or y/n | No |