

Municipality/Organization: Town of West Springfield

EPA NPDES Permit Number: MA041024

MassDEP Transmittal Number: W-035938

**Annual Report Number
& Reporting Period:** Year 10 April 1, 2012 – March 31, 2013

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2013)

Part I. General Information

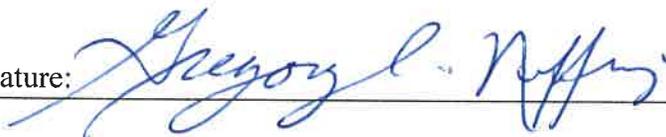
Contact Person: James W. Lyons, P.E. **Title:** Town Engineer

Telephone #: (413) 263-3249 **Email:** JLyons@West-Springfield.ma.us

Mailing Address: 26 Central Street - Suite 17, West Springfield, MA 01089-2763

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: Gregory C. Neffinger

Title: Mayor

Date: 4/26/13

Part II. Self-Assessment

The Town of West Springfield has completed the required self-assessment and has determined that our municipality is in compliance with permit conditions where budget and resources allow.

Items that are deficient are as follows:

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 – Future Permit
4A	Construction Site Runoff Ordinance	Planning Dept. Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
4B	Erosion and Sediment Control Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
4C	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are under review by the Town Attorney.
5A	Post Construction Runoff Ordinance	Planning Dept.	Eval Exist Std – Yr 1 Draft Revision -Yr 2 Propose Adopt – Yr 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
5B	Construction Site Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.

5C	Stormwater System Maintenance Plan	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
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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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
1A	Educational Displays at the DPW Offices	DPW	1 Display in Municipal Building per year (Year 1 to 5)	Stormwater posters have been installed outside of DPW Offices in the Municipal Office Building, in the library and also on local (PVTA) buses.	Posters produced by The Connecticut River Stormwater Committee
Revised	<i>Also on (PVTA) local buses</i>				
1B	Classroom Education	DPW	DPW Classroom Presentation (Year 1 to 5)	Fausey School in West Springfield has included stormwater related topics in its curriculum.	Continue to participate in Classroom Educational Programs.
Revised					
1C	Newspaper Press Release	DPW	Press Release to local newspaper –2 per year (Year 1-5)	Press releases and articles frequently appear in the West Springfield Record and the Springfield Republican. They appear far more frequently than 2 per year.	Continue press releases and articles for the local newspapers.
Revised					
1D	Local Cable Access	DPW	Show Stormwater Video – 2 per year (Year 1-5)	Connecticut River Stormwater Committee contacted local cable access station to ensure that video Public Service Announcements were active in West Springfield.	Continue with public service announcements and notices, local environmental programs and lectures.
Revised					
1E	Informational Pamphlets	DPW	Develop Pamphlets and distribute with water bills (Year 1,3,5)	DISTRIBUTED WITH WATER BILLS	Informational pamphlets will be sent out with the water bills
Revised					
1F	Open House at Transfer Station	DPW	Publicize and Support Annual Event (Year 1 to 5)	Public Presentations are presented by the Connecticut River Stormwater Committee – Think Blue Campaign	The town will continue to sponsor programs and lectures which highlight the environment.
Revised	<i>Changed Location to Town Hall Auditorium</i>				

1. Public Education and Outreach (Continued)

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 – Future Permit
1G	Community Website	DPW	2 Notices per Year on local “Virtual Town Hall” website (Year 1 to 5)	NPDES Web pages are located on the Town’s Website and are being updated to document the town’s efforts.	The town will continue to post Stormwater and Environmental Notices on its Public Works Website.
Revised					

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 – Future Permit
2A Revised	Adopt a Road	City Council	Support “Townwide Cleanup” activities – Years 1 to 5 <i>Switched from Merrick to Townwide</i>	Annual “Earth Day Cleanup” activities utilize volunteer groups who help with the cleanup. These groups go along brooks and streams and remove litter and other debris.	The Town will continue to sponsor “Earth Day Cleanup Activities”.
2B Revised	Adopt a Stream	DPW	Maintain Signage identifying stream names sponsored by volunteer groups – Years 1 to 5	During “Earth Day Cleanup” volunteers check the signs that identify the names of streams. The signs are replaced if they are damaged.	The Town will continue to sponsor “Earth Day Cleanup Activities”.
2C Revised	Attitude Surveys	DPW	Include Stormwater Survey on Website – Years 2 & 5	West Springfield is working with the Connecticut River Stormwater Committee.	The results of the Attitude Survey are posted on the DPW Website.
2D Revised	Community Hotline	DPW	Place DPW phone number on Town Website for reporting of illicit discharges – Years 1 to 5	This BMP has been implemented with the assistance of our Computer Department.	Continue to post the Emergency Phone Numbers on the Town’s Website.
2E Revised	Storm Drain Stenciling	DPW	Recruit volunteers for stenciling anticipated 100 catchbasins per yr	Fausey School Environmental Awareness. Curb Markers installed in the parking lot at the Middle School.	The town will continue to solicit volunteers to install curb markers at catch basins.

2. Public Involvement and Participation (Continued)

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 – Future Permit
2F	Water Quality Monitoring	DPW	Visual Inspection of priority outfalls by volunteers, 10 per yr (Years 2 & 5)	Field inspected 100% of the known 272 mapped outfalls by Tighe & Bond Consulting Engineers	Continue monitoring of water quality in streams and brooks
Revised					
2G	Watershed Committee	WRA	Support Westfield River Association, inform of DPW activities (Year 1 to 5)	The Town of West Springfield supports the activities of the Westfield River Watershed Association in cleaning up of the town's riverbanks.	The Town of West Springfield will continue to support the Westfield Watershed Association.
Revised					
2H	Hazardous Waste Collection	DPW	Publicize annual event collecting Universal Wastes (Year 1 to 5)	Hazardous Waste Collection was conducted on September 29, 2012. 240 Vehicles registered 2.2 tons of hazardous waste collected 2.1 tons of electronics recycled 450 gallons of waste-oil recycled 15 propane tanks recycled 38 auto batteries recycled 848 ft of fluorescent bulbs collected	The Town of West Springfield will continue to conduct Hazardous Waste Collections in the early fall of each year.
Revised					
2I	Wetlands Planting Remove invasives	DPW	Recruit volunteers for wetlands improvements (Year 1 to 5)	Local volunteer groups help with Earth Day Cleanup. Debris is typically removed from local wetland habitats. Earth Day Cleanup was organized by DPW and Conservation Commission and picked up tons of litter, bulk waste and tires, some with metal rims	West Springfield will continue to support local conservation groups thru town-sponsored activities.
Revised					

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) Tighe & Bond Consulting Engineers for 3A, 3B & 3E	Planned Activities – Future Permit
3A	Mapping Stormwater Outfalls	DPW	Develop map of stormwater outfalls, Year 1 Field inspect, Year 2-5 verify 25% per year	Mapped 100% of outfalls in town focusing first on densely populated areas.	DONE
Revised					
3B	Develop Illicit Discharge Plan	DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Simultaneously mapped outfalls and system-wide storm and sewer structures (i.e., catch basins, manholes, pipes) for 100% of town. This will provide accurately located structures to help the town immediately and more easily implement the Illicit Discharge Detection and Elimination Program.	A draft version of the Illicit Discharge Plan has been developed for use in inspecting outfalls.
Revised					
3C	Non- Stormwater Ordinance	Planning Board / DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Ordinance was adopted April 19, 2005 It has been implemented	DONE
Revised					
3D	Inform Employees, Businesses, Public	DPW	Publicize Illicit Discharge Plan (Year 3 & 5)	Published various stormwater documents on town’s internet site for the public to access.	A draft version of the Illicit Discharge Plan has been developed for use in inspecting outfalls . Draft version is currently on website.
Revised					
3E	Video Inspection	DPW	Conduct as needed in conjunction with BMP #3B (Years 1 to 5)	Video Inspections and dye testing have been performed in conjunction with the mapping of storm drain systems.	Video inspections and dye testing to be performed as needed to determine connectivity of storm drain systems to outfalls as illicit discharges are found.
Revised					

3. Illicit Discharge Detection and Elimination (Continued)

3F	Failing Septic Systems	Board of Health	Keep records for identification of Problem Areas (Years 1 to 5)	Health Department has records of Septic Systems. These are being entered onto the Town's GIS mapping system.	Continue to enter septic system information onto the Town's GIS mapping system
Revised					

4. Construction Site Stormwater Runoff Control

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 – Future Permit
4A	Construction Site Runoff Ordinance	Planning Dept. Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
4B	Erosion and Sediment Control Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
4C	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					

5. 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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
5A	Post Construction Runoff Ordinance	Planning Dept.	Eval.Exst Stand – Yr 1 Draft Revision – Yr 2 Propose Adopt - Yr 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
5B	Construction Site Plan Review	Planning Dept.	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
5C	Stormwater System Maintenance Plan	Planning Dept.	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					

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 – Future Permit
6A Revised	Municipal Maintenance Activity Program	DPW	Evaluate and draft additional policies as necessary, Year 1. Comply, Yrs 2-5	DPW maintains 17 parks and ball fields – trash is picked up on a daily basis. Vehicle fleets inspected monthly and oil changes done on a regular basis Catch basins are cleaned as there is a route established to clean them all.	Continue the effort established in previous years
6B Revised	Employee Training	DPW	Initial Good Housekeeping training Year 1. Annual Refresher Yrs 2-5	Employees are trained in the Municipal Maintenance Activity Program.	Continue the effort established in previous years
6C Revised	Catchbasin Program	DPW	Clean 50% of Catchbasins per year	100% of the catchbasins were cleaned this year. Collected materials were used as ground cover at the Springfield Yard Waste Composting Facility	Continue the effort established in previous years
6D Revised	Street Sweeping	DPW	Sweep Streets once per year and Business Districts monthly, spring thru fall Yrs 1-5	The DPW swept the entire town once this year. Downtown and main arterial routes were swept an additional 4 times. Street sweepings were collected for use as ground cover at the Springfield Yard Waste Composting Facility.	Continue the effort established in previous years
6E Revised	Road Salt Program	DPW	Employee Training at Salt-Institute, Yr. 1 Investigate alternative chemicals Yrs 2-5	DPW is continually investigating alternative snow and ice control techniques.	Continue the effort established in previous years

6. Pollution Prevention and Good Housekeeping in Municipal Operations (Continued)

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 – Future Permit
6F Revised	Lawn care and Pest Control	DPW	Train 2 Employees for application of controls Yr 1 Implement Practices Yrs 2-5	Continue the effort established in previous years.	Continue the effort established in previous years
6G Revised	Stormwater Pollution Prevention Plan / MSGP at the City Garage (Town Yard)	DPW	Implementation of SWPPP, Year 1. Comply, yrs 2-5	4 bays of the existing DPW Garage have been reconstructed for use as state of the art repair facility. The town has abandoned plans to build a new facility.	DONE
6H Revised	Used Oil Recycling	DPW	Continue collection and recycling, Years 1-5.	In 2014 the town collected 472 gallons of used motor oil.	Continue to collect and recycle used motor oil. DPW intends to get a waste oil burner to help heat the garage.
6I Revised	Illegal Dumping	DPW	Pickup of dumped waste, Yrs 1-5	The DPW continues to pick up illegally dumped materials in the following areas: Agawam Ave, Bear Hole Reservoir, Circuit Ave, Palmer Ave, Old Westfield Road and 7.2 miles of earthen dike.	Continue with the effort established in previous years. Installation of a surveillance camera on Agawam Avenue to detect violators.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

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 – Future Permit
7A	TMDL for the Connecticut River	DPW, Planning, Health, Bldg Departments	Completion of BMP's under all of the Six Minimum Control Categories	Refer to previous BMP's	
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

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, 2012 through March 31, 2013)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$ 8,000
Total program expenditures since beginning of permit coverage	(\$)	\$ 797,742
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	95%
Stormwater management committee established (<i>Connecticut River Stormwater Committee</i>)	(y/n)	Y
Stream teams established or supported (<i>Westfield River Watershed Association</i>)	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	240 vehicles
▪ material collected **	(tons or gal)	4.3 tons
School curricula implemented	(y/n)	Y

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	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

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	272
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	80
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	272
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	9 very likely 19 maybe
Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	

% of population on sewer	(%)	95%
% of population on septic systems	(%)	5%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	7
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	30+
Tickets/Stop work orders issued **	(# or %)	6
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	5

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 %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1 time/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1 times/year
Qty of structures cleaned **	(#)	Approx 700
Qty. of storm drain cleaned **	(%, LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	450 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	landfill

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$ 55,932
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$39.77/hour
• Disposal cost**	(\$)	\$ 0.00
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	None
• % Structures cleaned with clam shells **	(%)	None
• % Structures cleaned with vector **	(%)	100%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	410 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs	Repairs to Sweeper	\$ 3,500.00
• Annual budget/expenditure (labor & equipment)** Operator & Truck - \$41.54/hr	(\$)	N/A
• Hourly or lane mile contract rate ** No Contractual Services this year. Done in-house	(\$/hr. or In mi.)	N/A
• Disposal cost**	(\$)	\$ 0.00
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % 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	<i>4 Ballfields x 4 applications</i>	(lbs. or %)	4,813 lbs
▪ Herbicides	<i>By Contract 7.2 miles of earthen dike has vegetation control</i>	(lbs. or %)	2X
▪ Pesticides		(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented		(y/n)	N

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	45% 5% 50%
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	N
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	0%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	0%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	0%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2011	(y/n)	N

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N/A
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	Y
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	N

West Springfield: NPDES Compliance for goals 2F, 3A, and 3B

The Town of West Springfield has mapped the entire stormwater system and inspected 272 outfalls for the presence of non-storm water discharges. The town has also mapped the remaining stormwater systems and produced a complete GIS map. Information gathered from outfall testing will allow the town to detect, locate, and eliminate illicit discharges from the storm water system. The system-wide stormwater maps will help provide the town the ability to trace pipe connections upstream of the outfall being investigated to help determine the source of pollutants. The town does not have a finalized Illicit Discharge Plan, as we anticipate that there may be some revisions once comprehensive inspections of outfalls is completed.

In addition to mapping, the town has started a program to clean and inspect all of the storm drain pipes. We will be conducting a video inspection of the entire storm system, including pipes, catchbasins and manholes. This program will enable the Town to find illicit connections and sources of pollution. Priority will be given to streets that are candidates for paving or reconstruction.

The town has invested and continues to invest a substantial amount of financial resources, effort, and time to map and inspect the entire storm water system in addition to outfalls. This will provide significant value-added benefits for the Illicit Discharge Detection and Elimination program.

**CONNECTICUT RIVER STORMWATER COMMITTEE
2012 ANNUAL REPORT
JANUARY 1 TO DECEMBER 31, 2012**

The following is a summary of the work of the Connecticut River Stormwater Committee during the 2012 calendar year:

Member Community	Committee Representative and Department
Agawam	Tracey DeMaio, Department of Public Works
Chicopee	Joe Kietner, Waste Water Treatment Division
Easthampton	Stuart Beckley, Planning Department; Jim Gracia, DPW
Granby	Dave Derosiers, Highway Department
Holyoke	Matt Sokop, Department of Public Works
Longmeadow	Chris Reed, Department of Public Works
Ludlow	Jim Goudreau, Department of Public Works
Southwick	Richard Grannells, Department of Public Works
South Hadley	Melissa Labonte, Department of Public Works
Springfield	Kevin Chaffee, Conservation Commission
West Springfield	Jim Lyons, Department of Public Works
Westfield	Charles Darling, Water Resources Department

Low Impact Development Code (LID) Review for Chicopee and Ludlow

The Pioneer Valley Regional Ventures Center (PVRVC) was provided mitigation funds in the amount of \$24,000 as the result of Clean Water Action’s Notice of Complaint against Ginmar Enterprises Inc. for use on projects related to stormwater benefiting water quality in the Chicopee River. The SEP addressed stormwater pollution for the improvement of water quality in the Chicopee River through: 1) education and outreach to chief elected officials in Chicopee and abutting communities; 2) develop innovative strategies for expanding green infrastructure for stormwater management including performance standards to reduce stormwater impacts from development; and 3) education and outreach to operators of industrial facilities within the Chicopee River watershed about proper best management practices for stormwater to reduce runoff and water quality degradation.

The Draft 2010 NPDES MS4 Permit for the Merrimack, Interstate and South Coastal regions issued October 24, 2010 requires MS4s to perform a local code review to assess the feasibility of implementing Low Impact Development (LID) techniques in new development and re-development at all scales. To address this requirement, PVPC developed a Green Infrastructure Checklist to use in reviewing local codes. The code review checklist was then implemented in the City of Chicopee and the Town of Ludlow, both communities share a border with the Chicopee River. From the checklist, two assessment and recommendation reports were generated for each community:

- Street and Parking Standards and Recommendations for Implementing Low Impact Development

- Local Regulation Review for the Feasibility of Having Low Impact Development

These reports present our assessments and recommendations regarding the landscaping of right-of-ways and parking lots, the curb and grade requirements of roadways and parking lots, and the dimension and layout requirements of streets, sidewalks, driveways, and parking spaces that influence the creation of impervious surfaces in right of ways, residential and nonresidential lots. The reports propose changes to the existing language of the zoning ordinances and subdivision regulations to allow for or encourage the use of LID integrated management practices. In making our recommendations of street, sidewalk, driveway, and parking lot dimensions, we referenced LID standards proposed in:

- Massachusetts Low Impact Development Toolkit by the Metropolitan Area Planning Council (MAPC), and
- “Better Site Design: A Handbook for Changing Development Rules in Your Community” by the Center for Watershed Protection, from which MAPC based their recommendations.

For Ludlow, the following bylaws and regulations were reviewed:

- a. Zoning Bylaws (version: May 14, 2012)
- b. Subdivision Rules and Regulations (effective: May 24, 2012)
- c. Smart Growth Overlay District Bylaw
- d. Design Standards for the town of Ludlow Chapter 40R Smart Growth Overlay District (version: May 13, 2011)
- e. Regulations for Construction within the Public Way (version: October 2012)

For Chicopee, the following ordinances and regulations were reviewed:

- a. current City Code Chapter 275
- b. Subdivision Regulations (April 7, 2005 version) for the right of way and parking lot guidelines that influence the creation of impervious cover

For each community the reports were submitted to the Planning Department and Department of Public Works for review and comment. The green infrastructure checklist and reports will also be presented to the Connecticut River Stormwater Committee at their February 12, 2013 meeting.

Outreach to Industrial Facilities

Also funded under the Clean Water Action SEP, PVPC performed outreach to industrial facilities with a NPDES Multi-Sector General Permit. The U.S. EPA Region 1 office provided a list of the NPDES Multi Sector General Permit holders in Hampshire and Hampden counties. During the summer of 2012, PVPC reviewed electronic submissions of their annual NPDES reports, and conducted phone interviews with a representative at each company to discuss their MSGP annual report submittals and to identify if training and/or outreach was needed to help them comply. Surprisingly, each of the representatives spoken to could not identify further training and/or assistance needed. Overall, there seemed to be a lack of interest, or perhaps a wariness, to talk with a representative outside of their company about this regulatory compliance issue despite the fact that we emphasized that we were not a regulatory or enforcement entity. This wariness should be considered when conducting future outreach, and some means to incentivize the discussion needs to be considered.

Building Inspectors Workshop Planning

In follow up to the two workshops sponsored by PVPC on Green Infrastructure and Low Impact Development for municipal officials (1/30/12 Best Management Practices; 2/13/12 Exploring the Possibilities: Building Green Infrastructure in Your Community), we attempted to plan a third workshop targeting building inspectors. Building Inspectors are generally the Zoning Code Enforcement Officers as well as the entity that signs off on Building Permits. It is important that they are knowledgeable about green infrastructure, local stormwater bylaws, and the NPDES MS4 requirements and overview. Our intention is to work with the Western Mass Building Inspectors Association to co-host this workshop at one of their existing meetings to draw a larger crowd. It is our intention to offer CEUs for the workshop. However the Association contacts have been unresponsive for 8 months now. The Southwick Building Inspector offered to help contact the organization as he is a member, but he has not been able to connect us with the Association. This effort has been tabled until further notice.

TURI Grant – Organic Landcare at 5 Municipal Parks – Spring Outreach Events

2012 was the second half of a one year grant (September 2011 – June 30, 2012) from the Toxics Use Reduction Institute (TURI) at UMASS Lowell to promote organic landcare at municipal parks. PVPC received a Toxics Use Reduction Institute Grant (TURI) from UMASS Lowell to transition five municipal parks to organic land care programs. Participating parks included:

- *School Street Park, Agawam* - Within walking distance of the Connecticut River, School Street Park features 50 acres of land with four multi-purpose athletic fields, a handicap accessible playscape, a basketball court, shuffleboard and bocce ball courts, walking trails, picnic tables, and a historic barn. The park has a high volume of adult and children using the park.
- *Look Park, Northampton* – Look Park offers recreational opportunities for walkers, runners, bikers, etc. One of the focal points of the park is a grass 2,200 person capacity outdoor concert theatre. Earlier this year, through the use of a TURI grant this outdoor theater transitioned to a petrochemical and pesticide free venue.
- *Greenwood Park, Longmeadow* – The Park abuts Greenwood Center which houses the Council on Aging and the Longmeadow Park and Recreation Childcare Center. The Childcare Center uses Greenwood Park daily for its outdoor activities, as does the Council on Aging for certain seasonal events.
- *Town Center Park, Ludlow* – The Town plans to, with the help of this grant, transition a park where the summer community concert series is held pesticide and petrochemical free. The park is located in a highly visible area in the center of Town and the concert series is well attended.
- *Wistariahurst Museum grounds, Holyoke* - In 1959, Wistariahurst was given to the City of Holyoke for cultural and educational purposes. The grounds contain extensive ornamental gardens and an expansive lawn. The Museum is home to the Master Gardener's Association and hosts weekly meetings and multiple plant sales and regional conferences throughout the year.

In 2012, the following outreach events were held:

- Friday, March 16, 2012 - Going Organic for Landscape Contractors 8am-noon – workshop for traditional landscape contractors, co-sponsored by Valley Green in Holyoke.
- Tuesday, April 24, 2012 – Week of the Young Child Parade, Ludlow –Think Blue display booth, donated the story walk “All the Way to the Ocean” by Joel Harper.
- Saturday, April 28, 2012 -Agawam Little League Jamboree and Earth Day celebration Think Blue display booth
- Saturday, May 12, 2012 – Look Park Lawnathon with Paul Tukey of Safelawns Foundation
- Saturday, May 19, 2012 – Longmeadow Days on the Town Common – Think Blue display booth with the DPW

EPA Soak Up the Rain Campaign

EPA has requested our assistance in promoting their new “Soak Up the Rain Campaign” by promoting rain gardens and other LID systems in the Pioneer Valley. PVPC is in negotiation with EPA about establishing a contract for programming in 2013.

Outreach and Training Events

“Skip the Scotts” at the Western Mass Master Gardener’s Annual Symposium on Saturday, March 31, 2012 at Dean Technical High School in Holyoke. This workshop targeted residential lawn owners about how to transition to organic lawn care practices.

The Green Infrastructure Workshop presentations (1/30/12 BMPs; 2/13/12 Exploring the Possibilities: Building Green Infrastructure in Your Community) are available at:

<http://www.sustainableknowledgecorridor.org/site/content/green-infrastructure>

Updated Greenscapes Guide

In collaboration with the Greenscapes Coalition, the Greenscapes Guide was updated. Copies were distributed to member communities for distribution at town offices, and are available at outreach events.

Community Innovation Challenge Grant Application

PVPC submitted a \$500,000 grant application to the MA Department of Finance and Administration’s Community Innovation Challenge Grant Program for the following services:

Task 1: Storm sewer database software implementation with mobile device application

Task 2: Outfall Mapping, Monitoring, and Illicit Detection Program

Task 3: Model Stormwater Pollution Prevention Plans (SWPPP) for MS4 Owned Facilities

Task 4: Pilot Cost Optimization Modeling for Nitrogen Removal

Task 5: Regional Education and Outreach Utilizing PVPC’s Think Blue Campaign

The grant was not funded due to a significant budget cut by the Governor.

General Administration

- FY12 Work Plan and Budget (July 1, 2012 – June 30, 2013)
- Many Stormwater Committee members also participated in the development of the Pioneer Valley Green Infrastructure Plan, coordinated by Patty Gambarini at PVPC. The GI Plan provides a detailed analysis of opportunities for green infrastructure in the Pioneer Valley, and sets for the plan for implementing more projects in the coming years. The Stormwater Committee will continue to participate in promoting green infrastructure.
- Meeting Dates – The Stormwater Committee met four times in 2012:

February 3, 2012

April 5, 2012

June 8, 2012

September 10, 2012