

Municipality/Organization:	Town of Ludlow
EPA NPDES Permit Number:	MA041014
MaDEP Transmittal Number:	W-036097
Annual Report Number & Reporting Period: No. 10: May 1, 2012-April 30, 2013	

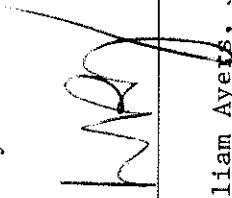
NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Paul Dzubek	Title: Director of Public Works
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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: William Ayets, Jr.	
Title:	Chairman – Ludlow Board of Public Works
Date:	April 2, 2013

Part II. Self-Assessment

The Town of Ludlow has completed the required self-assessment of compliance with the Phase II Stormwater Management Program. In accordance with the NPDES Phase II Stormwater requirements, the following topics were evaluated for the completion of the Annual Report

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program's Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

Regulatory Mechanisms

The Town of Ludlow adopted a General Stormwater Bylaw at the October 2005 Special Town Meeting, Article 18, amended at the October 2006 Special Town Meeting, Article 24. The Bylaw provides mechanisms that 1) prohibit non-allowable, non-stormwater discharges to MS4s; 2) require sediment and erosion control at construction sites; and 3) control post-construction stormwater runoff from development or redeveloped parcels. A copy of the adopted bylaw was provided in permit year IV annual report.

Public Education and Outreach

Since joining the Connecticut River Clean-Up Committee – Stormwater Subcommittee (CRCC-SC) in 2005, the Town of Ludlow has participated in a regional media marketing campaign to educate residents about stormwater. Attachment A of this report contains details of public education and outreach programs accomplished by the CRCC-SC and the Town of Ludlow. The attachment details activities completed during permit year X.

Illicit Discharge Programs

As outlined in the Permit, the Town of Ludlow has completed its storm sewer system map (100%) in a GIS format and, as mentioned above, Ludlow adopted regulatory mechanisms to prohibit non-stormwater discharges to its MS4. The Town of Ludlow was successful in eliminating the last Combined Sewer Overflow in Town. This work was completed and the last overflow in Town was eliminated in 2010.

Outfall Mapping Requirement

The Town of Ludlow completed the outfall mapping requirement. The database was developed to allow for tracking the frequency of maintenance operations.

It should be noted that some portions of the Town of Ludlow MS4 is interconnected with the MS4 owned and operated by the Massachusetts Turnpike Authority. A total of eight (8) outfalls are located on property with limited access and have stormwater contributions from both the Town of Ludlow and MTA. Therefore, assessing and maintaining these outfalls cannot be accomplished without relying on the MTA.

Certification of Eligibility – Endangered Species Act (ESA) and National Historic Preservation Act (NHPA)

The Town of Ludlow complied with this requirement of the permit during permit year II and was detailed in the annual report.

Discharges into Water Quality Impaired Waters

According to the *Massachusetts Year 2004 Integrated List of Waters*, published by MassDEP, water bodies in Ludlow are categorized as the following: Category 2 Haviland Pond, Red Bridge Impoundment, and Springfield Reservoir; Category 3 Harris Pond and Murphy Pond; Category 4a Minnechoag Pond; and Category 5 Alden Pond and Chicopee River. In addition, the *2004 Integrated List of Waters* lists Minnechoag Pond as the only water body covered by a TMDL within Ludlow.

Discharges into Waters with Approved Total maximum Daily Load Allocations

The Town of Ludlow's MS4 discharges to Minnechoag Pond for which a TMDL has been approved. Ludlow had design plans completed for the reconstruction of a portion of the drainage system discharging to Minnechoag Pond. The drainage improvement project was constructed in concert with a roadway/intersection improvement project, both of which are being funded by the Commonwealth of Massachusetts. This project was completed including all punch list items in 2011.

Stressed Basins

According to the *Stressed Basins in Massachusetts* report published by the Massachusetts Water Resources Commission, the Town of Ludlow is located within a Low Stress Basin. Therefore, the Town of Ludlow is not required to address the annual loss of recharge to groundwater. However, the Town of Ludlow requires development and redevelopment project to maximize groundwater recharge through the regulator mechanisms adopted by the Town Meeting.

Measurable Goals

As discussed above, most of Ludlow's original measurable goals were met prior to the end of permit year V and have maintained compliance each permit year.

Summary

The Town of Ludlow has nearly completed all activities as presented in the Original Notice of Intent for the implementation of Stormwater Management Program. Over the past five permit years, Ludlow has also added Best Management Practices that provide further resource protection.

The Town of Ludlow purchased a vacuum truck for the purposes of maintaining our MS4 and sanitary sewer system. This purchase will help to meet some BMPs outlined in the Town of Ludlow's Stormwater Management Plan.

The following projects were completed in 2012 that improved storm water quality.

1. Chapin Street Drainage project included the installation of 1580' of 18" HDPE drain pipe, 190' of 12" HDPE drain pipe, 11 Drain manholes, and 17 deep sump catch basin.

The following project with stormwater system improvements is scheduled for 2013.

1. Lyon Street reconstruction project.

This project will include the reconstruction of Lyon Street from Munsing Street to the Granby line and include the installation of a storm water system and deep sump catch basins.

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 – Permit Year 11
1a.	Create website links	DPW	Post links to EPA & DEP stormwater information	Links to DEP and EPA Stormwater information posted on Town of Ludlow website and DPW website.	Update links as necessary and continue EPA and MA DEP stormwater information links.
1b.	Make Stormwater Management Plan available.	DPW	Have Plan copies available at Town Hall, Library & DPW	The plan is available.	Keep copies of the plan available & update as necessary.
1c.	Hold a household hazardous waste collection day.	DPW	One collection per year.	A household hazardous waste day was held in September 2012. 47 Ludlow Residents participated in a regional event in September.	A household hazardous waste collection day is scheduled for September 2013. Document # of participants.
1d.	Cable access bulletins.	DPW	Air bulletins each year.	Bulletins aired during the year with upcoming stormwater events.	Continue to run bulletins and update with upcoming stormwater related events.
1e.	Regional Public Outreach	DPW	Regional Multi-Media Campaign	See Attachment A “Connecticut River Stormwater Committee Progress Report Jan. 1 to Dec. 31, 2012	Continue participation in CRSS and document outreach materials distributed.

1a. Additions – No addition at this time

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
2a.	Form a stormwater committee.	Selectmen	Have meetings as necessary.	No meetings held	Continue to hold committee meetings as needed.
2b.	Develop stormwater bylaws.	Stormwater Committee	Public hearing held.	No public meetings held.	Hold public hearings, as needed, to revise/update general bylaw for future Annual Town Meeting.
2c.	Develop a catch basin stenciling program.	DPW	Number of catch basins selected.	Stenciling program developed. None stenciled due to budget constraints.	Continue stenciling program and recruit volunteers as funds allow
2d.	Town Meeting consideration of Bylaws.	Selectmen	Recorded vote of Town Meeting.	No revisions to Stormwater Management Bylaw adopted Article 18 October 2005 Special Town Meeting.	Revise/Update bylaw as necessary.

2a. Additions - No additions at this time

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
3a.	Draft a drainage system bylaw.	Stormwater Committee	Draft bylaw ready for Town Meeting in year 2. Record Vote	Language added to existing Stormwater Management Bylaw governing penalties illicit discharge connections. Voted passed: Article 24 October 2006 Special Town Meeting	Revise/update bylaw as needed.
3b.	Map the MS4.	DPW	Completed map.	Map Completed. Continue field verification and inspection project. MTA reliance.	Continue map updates and outfall and receiving water inspections to identify high priority area.

3a. Additions No additions at this time

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 – Permit Year 11
4a.	Develop construction site runoff control regulations.	Stormwater Committee	Interdepartmental policy in place	General Stormwater Bylaw adopted in October 2005 Special Town Meeting, Article 18. Encompasses development construction activities.	Revise/update bylaw to include more stringent enforcement options for violations.
4b.	Multi-Departmental Pre-Project Release Form	Building Department	Institute Multi-Department Release Form	Draft form adopted in October 2005. Use for every development project in Ludlow.	Revise/update development form as needed.
4c.	Pre-Construction Stormwater Permit	DPW	Record number of Permits Filed	Conducted 3 permit reviews and site inspections	Continue to review permits and site plans for adequate stormwater controls for any construction activity.

4a. Additions - No additions at this time

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 – Permit Year 11
5a.	Adopt bylaw.	Stormwater Committee	Prepare for Town Meeting.	Revise General Stormwater Bylaw adopted in October 2005. Encompasses development construction activities.	Revise/update bylaw to include more stringent enforcement clauses for violations.
5b.	Detention/Retention/Infiltration Basin Inspections	DPW	Inspection Log	Developed maintenance plan of action to be accomplished. Due to budget constraints these inspections could not all occur.	Develop inspection program for all detention, retention, and infiltration basins to ensure proper function during future storm events.

5a. Additions - No additions at this time

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	Planned Activities – Permit Year 11
6a.	Clean catch basins.	DPW	Clean all catch basins once per year.	Most Catch basins were cleaned due to budget constraints.	Catch basins will be cleaned.
6b.	Sweep streets.	DPW	Sweep all streets.	All streets were swept.	All streets will be swept subject to funding.
6c.	Management Education	DPW	Remain up-to-date with current Stormwater policies and regulation.	Stormwater seminars attended by staff.	Attend Stormwater management classes and/or seminars.
6d.	Catch Basin Replacement	DPW	Document No. of Catch Basins Replaced	18 deep sump catch basins were installed, when old Cb's replaced	Replace existing non deep sump, non-hooded catch basin with deep sump and hood catch basins throughout urbanized area.

6e.	Vacuum Truck	DPW	Purchase Vacuum Truck to Maintain MS4	The DPW utilize the Vacuum Truck to maintain the MS4	Utilize Vacuum Truck to maintain MS4 including cleaning drain lines and catch basins.
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6a. Additions -

Accidental Spill Prevention – Sight Distance Improvement	DPW	Reduce one sight distance hazard per year	Eliminate knoll on Rood Street to reduce chance of accidents and spills.	Elimination of knoll on Rood Street to occur in spring 2013. Look at sight distance improvements for streets with high traffic volumes and major trucking routes.
Reduce salt load around pond.	DPW	Reduce amount of salt used while sanding.	Decrease amount of salt used in critical areas.	Reduce the amount of salt used in critical areas.

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7.	Reconstruct drainage system to Minnechoag Pond from East Street.	DPW	Reduce sediment load reaching the pond from a major street via flow from a substantial discharge.	Construction was completed on this project.	The completion of the drainage system two construction seasons ago removed sediment/phosphorous loading to Minnechoag Pond.

7a. Additions - No additions at this time

Part IV. Summary of Information Collected and Analyzed

No significant amount of information has yet been collected.

Part V. Program Outputs & Accomplishments (OPTIONAL)**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures **	(\$)	~120,000
Total program expenditures since beginning of permit coverage	(\$)	~873,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

Education, Involvement, and Training

	(Preferred Units)	Response
Estimated number of property owners reached by education program(s)	(# or %)	~1500
Stormwater 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 **	(y/n or mi.)	Yes
Shoreline cleaned since beginning of permit coverage	(mi.)	0.25
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	47 households
▪ material collected **	(tons or gal)	~1385 gal
School curricula implemented	(y/n)	No

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				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

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	3
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(%)	100
Tickets/Stop work orders issued **	(#)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

	(Preferred Units)	Response
Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections (for proper BMP installation & operation) completed **	(%)	100
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100 paper 100 electronic
Estimated or actual number of outfalls	(#)	310
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	0
▪ GIS	(%)	100
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	0
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	60
% of population on septic systems	(%)	40

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	~1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	~100
Qty. of storm drain cleaned **	(%, LF, mi.)	50 lf
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	65 cy
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Disposal
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$100,000
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$300/hr
• Disposal cost**	(\$)	\$
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	Yes
• % Structures cleaned with clam shells **	(%)	0
• % Structures cleaned with vector **	(%)	100
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)	3
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	300cy
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	~\$25,000
• Hourly or lane mile contract rate **	(\$/hr. ln mi.)	\$
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	no

Operations and Maintenance (cont)

• % 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 %)	5%
▪ Herbicides	(lbs. or %)	5%
▪ Pesticides	(lbs. or %)	5%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y
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	95 5
Pre-wetting techniques utilized **	(y/n or %)	Yes
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	Yes
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	No change
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	No change
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
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 2008	(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	None
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	None
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	None

Attachment A

**Connecticut River Stormwater Committee Progress Report
January 1 to December 31, 2012**

Attachment B

2012 Household Hazardous Waste Day Results

**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 Goodreau, 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 Ginnmar 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 commendation 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

Sept. 15 2012
Regional HHW event

Town	total	1/2 car	full car	1/2 car	full car	Total	extra	shared/fixed	Total cost
Clean harbors cour	cars	\$28	\$48	cost	cost	disposal \$		costs	
(21 full cars less)		(10 gal)	(25 gal)						
(4 half cars more)									
East Longmeadow	112	85	48	\$2,380	\$2,304	\$4,684		\$304.00	\$4,988.00
Hampden	27	16	17	\$448	\$816	\$1,264		\$304.00	\$1,568.00
Longmeadow	108	85	46	\$2,380	\$2,208	\$4,588		\$304.00	\$4,892.00
Ludlow	47	31	43	\$868	\$2,064	\$2,932	\$240	\$304.00	\$3,476.00
Wilbraham	81	65	36	\$1,820	\$1,728	\$3,548		\$304.00	\$3,852.00
town									
Sub-totals	375	282	190	\$7,896	\$9,120	\$17,016			\$18,776.00
totals	383					\$345			\$521.00
						\$1,000			
Clean Harbors Total						\$18,361			
Event Total									\$19,297.00
Fixed costs									
set up		\$1,000.00	pd by Longmeadow						
lead acid batteries		\$105.00	pd by Longmeadow						
roll-off and trash		\$416.00	paid by Longmeadow						
flyers		\$0.00	donated						
East LM Fire over-time		\$0.00	pd by Longmeadow and East longmeadow			\$521			
total		\$1,521.00							
5 way share		\$304.00							



2012 HOUSEHOLD HAZARDOUS WASTE REGIONAL COLLECTION DAY

(Residential Waste Only)



~ East Longmeadow ~ Hampden ~ Longmeadow ~ Ludlow ~ Wilbraham ~

Saturday, September 15, 2012 --- 9:00 a.m. – 1:00 p.m.

**** LOCATION **** East Longmeadow Fire Station Parking Lot (150 Somers Road, Route 83 off the Rotary)

Collections are by appointment only. ~ Appointments are made on a first-come, first-served basis. ~ Proof of residency is required.

Appointments MUST be scheduled Monday/Tuesday/Wednesday/ – September 10th, 11th & 12th, 2012 ONLY.

To schedule an appointment or for more info call:

- ! In East Longmeadow: 525-5400, ext. 1100 (9:00 am - 12:00 noon)
- ! In Hampden: 566-2151, ext. 102 (8:00 am - 2:00 pm)
- ! In Longmeadow: 567-3400 (9:00 am - 4:00 pm)
- ! In Ludlow: 583-5625, (9:00 am - 4:00 pm)
- ! In Wilbraham: 596-2800, ext. 208 (8:30 am - 4:30 pm)

For Wilbraham, Car Sticker Required.

NOTE: LATEX PAINT IS NOT HAZARDOUS WASTE.

Please DO NOT Bring to this event.

SPECIAL COLLECTION

A thermometer exchange will be offered again this year. Exchange your mercury thermometer for a new, "FREE" digital thermometer.

Operated by: Clean Harbors

Printed on Recycled Paper

Please DO NOT BRING:

Asbestos
Biological Waste
Commercial Waste
CRTs (TVs & Computers)
Driveway Sealant (Latex)
Empty Containers
Explosives
Fluorescent Bulbs
Industrial Waste
Latex Paint (dry out & put with trash)
Radioactive Waste (Smoke Detectors)
Tires -----Propane tanks
Unused Medications
Water Reactive Material

Items to Bring

Aerosol Cans	Metal Polish
Ammonia Solution	Moth Balls
Antifreeze	Motor Oil
Art Supplies	Muriatic Acid
Bleach	No-Pest Strips
Brake Fluid	Oven Cleaner
Carburetor Cleaner	<u>Paint (lead & oil based only)</u>
Chlordane	Paint Thinner
Craft Supplies	Pesticide
Creosote	Photo Chemicals
Degreaser	Pool Chemicals
Drain Cleaner	Rechargeable Batteries
Driveway Sealant (oil based)	Rodent Killer
Engine Degreaser	Rust Preventative
Fertilizer	Sealant
Floor Cleaner	Solvent
Furniture Polish	Thermometers
Gasoline	
Herbicide	Wood Preservative
Insect Spray	Wood Stain
Kerosene	Wood Stripper
Mercury Bearing Waste	