

**Granby
Department**

Highway

10 B West State St.
Granby, Ma 01033
(413) 467-7575

*Received
4/6/18*

March 20, 2018

US EPA – CIP
5 Post Office Square – OEP06-01
Boston, MA 02109-3912

Re: NPDES Phase II Permit #041007
Annual Report # 15

Attn: Glenda Velez

Dear Ms. Velez:

The Town of Granby herewith submits our Annual Report # 15. This report outlines the stormwater management program required by our NPDES permit # 041007.

If you have any further questions, please contact Chris Martin Town Administrator or David Desrosiers, Highway Superintendent.

Sincerely,



Mark Bail
Chair – Granby Selectboard

Cc: MA DEP

EPA NPDES Permit Number : MA041007
Annual Report Number 15
Date : 3/20/18

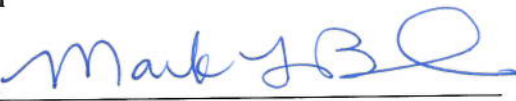
Town of Granby

NPDES PII Small MS4 General Permit Annual Report

Contact Person: Chris Martin Town Administrator
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Municipal Official

Signature: 

Printed Name: Mark Bail

Title: Chair – Selectboard

Date: 4/2/2018

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Self Assessment:

In anticipation of the new Stormwater phase II permit that will likely become effective next year, the Town of Granby has made a considerable investment of time and resources. First, we have partnered with several other communities to hire a consultant through the local stormwater coalition to assist us to upload our GIS data to an ArcGIS online account. The online capability will give us access to all GIS data in the field. This will also allow us to collect and update maintenance records in the field. The consultant will also assist us in developing forms for data collection and maintenance of our stormwater assets. Next we purchased a newer street sweeper and a vacuum truck. These were used vehicles but much newer and in much better condition than our old machines. These purchases should help us perform the maintenance work more efficiently into the foreseeable future. In addition, we have also contracted with a consultant to assist us with the new Storm Phase II permitting process and to update Operation and Maintenance Plans for all Town buildings.

The Town of Granby continues to make improvements in many areas impacting stormwater. Our curbside solid waste collection program is operating efficiently. Once again, we maintained an increased number of lawn waste collection and bulky waste collection days in order to encourage proper disposal of these wastes. Last year, we held five lawn waste and two bulky waste collection days.

We completed work on two large road reconstruction projects. First, we worked on the second phase of Harris Street. This section of roadway was about 5400' long. We reclaimed the existing pavements, to enable drainage improvements. The road was then repaved with a new 2 inch asphaltic concrete wearing surface. This completed the entire length of Harris Street. Next, we began work on Porter Street. The construction area was almost 7350' long. Once again the existing pavements were reclaimed so that the existing grades could be modified to improve drainage. New stone and gravel base was brought in as needed followed by a new 2 inch asphaltic concrete wearing course.

Originally, we had not scheduled the roadwork on Porter Street to be done this year. Even though the road was in very poor condition, the traffic volume on this road is considerably lower than on some of our busier streets. Our pavement management software and local experience selected New Ludlow Road as needing repairs ahead of Porter Street. We were originally planning a mill and overlay project on New Ludlow Road because there were many extremely large longitudinal cracks. Along many of these very large cracks, the pavements were also raveling. There were also some smaller areas with alligator cracks. Because of the size of the cracks and the raveling pavements, conventional crack sealing was not an option. We could not risk another year on this roadway without remedial action to keep water out of the pavement structure. If a large amount of water is allowed to enter the pavement structure on a high traffic volume road, the road can completely fall apart and become nearly impassable over the course of one winter season. Since we have so many roads in dire need of work, we decided to try a new option on New Ludlow Road. We used an asphalt spray patch system that allowed us to patch over many of the raveling and alligator cracked areas. After this was completed, we were able to use conventional crack sealing on the rest of the road. We are hoping to buy several more years with this relatively low cost repair. This new technique allowed us to protect New Ludlow Road from premature deterioration and still be able to repair Porter Street with the limited pavement repair budget available to us.

As mentioned previously, the Town of Granby continues to maintain its membership in the Connecticut River Stormwater Committee. We have participated in numerous meetings, including the Online Mobile Data Collection and Mapping Sub Committee. The consultant for this project is proceeding very well and hopes to have all the participating community's data up and running in the next few months. This will then be followed by a few training sessions. All of this is being performed to ensure that our town has in place the necessary tools to enable compliance with the upcoming new Stormwater Phase Two requirements.

The Town Granby continues to provide significant investment in the operation and maintenance of our Stormdrainage system. We perform annual outfall inspections. Our spring time sweeping operations have removed approximately 230 cubic yards of sand from the roads. The sweeping is performed as soon as possible after winter in order to mitigate sediments from entering the stormdrain system. We actively participate in the local Stormwater coalition to provide public education and outreach to the region. Our employees participate in stormwater training. We do our best to keep our roadways in the best possible shape with the funding available. In light of this, we strongly believe that the Town of Granby is not only honoring its current commitments under the current Stormwater Phase II permit requirements; we are also being proactive and preparing for the requirements of the next permit.

Appropriateness of BMPs:

We are very pleased to report that the Town of Granby maintains active membership on the Connecticut River Stormwater Committee. We are firmly committed to this regional approach to address stormwater issues. We intend to continue this relationship to pool our resources with the surrounding Towns in order to create an effective public education and outreach component of our program. In addition, we will continue to investigate other areas where regionally shared services can accomplish cost effective improvements due to economies of scale. Last year for instance we produced training videos that can be distributed to the member towns for future employee training.

As we have discussed in previous annual reports, the majority of our storm drainage system consists of small isolated systems with a few catchbasins discharging to a nearby low area, wetland or stream. Illicit discharges to a small isolated system such as this would be readily apparent and easily tracked to a source. Over the past few years, our outfall inspections have yielded only a few suspect discharges. Because of this we do not believe that illicit discharges are a significant problem within our system. In light of the above, it is our opinion that most of the bmp's outlined in our stormwater program are reasonable and appropriate for our system.

Progress Toward Achievable Goals:

Last year we had a very busy road construction season. Consequently, we fell a little behind on catch basin cleaning operations. We intend to begin spring time street sweeping operations as soon as the weather permits. We will then commence with catch basin cleaning. As mentioned above, we have purchased a new vacuum truck to clean basins. We are confident that we can eliminate any backlog of catchbasin cleaning. We are also looking forward to utilizing the new ArcGIS online data to help us manage this maintenance work.

Last year three employees attended Stormwater training seminars. The seminars were conducted by Wright-Pierce Associates. The training was on Illicit Discharge and Detection and Good Housekeeping. This ongoing investment in continuing education and training demonstrates our commitment to the program.

Specific achievements toward the various BMP's are detailed below and grouped under the individual BMP I. D. number:

- 1) The Local Storm Water regulations are in place. The proposed regulations have been reviewed by Town Counsel and the Sewer Commissioners. The sewer commissioners have incorporated the proposed regulations into the sewer regulations. The current regulations are currently under review By the Pioneer Valley Planning Commission. They are assisting us in updating the regulations in order to be in compliance with the upcoming permit.
- 3) Troubled Waters brochures and posters are available at Town Hall. Posters are displayed at the Highway Department. Public outreach is also being accomplished through the Connecticut River Stormwater Committee advertising and presentations.
- 4) The Town of Granby is a member of The Connecticut River Stormwater Committee. This committee is providing outreach towards targeted groups. The DPW opened a waste oil collection center.
- 5) The Connecticut River Storm Committee has been very effective in providing public education and outreach in numerous venues. See attached report in appendix A
- 8) The Selectboard is looking for volunteers to appoint to the Connecticut and Chicopee River Watershed Councils. We have joined the Connecticut River Storm Phase II Committee. The Highway Superintendent is representing the Town on this Committee.
- 9) Household waste recycling days are held annually.
- 10) The DPW has previously enlisted the help of the local Girl Scout troop to stencil the catch basins. Their participation in this program seems to be declining therefore we will have to try to find another organizations to continue this effort.
- 11) We have also accepted community service volunteers that have been provided through the court system to pick up roadside trash and clean up at the parks. We have always encouraged and assisted any concerned residents and members of the Conservation Commission in coordinating roadside cleaning.
- 12) The Highway Department has always provided assistance for community cleanups. Also, we promptly try to pick up all large items that are dumped along the roadsides. We try not to let any accumulation occur in order to discourage and mitigate future dumping.
- 13) The Highway Department has purchased a hand held GPS unit and has mapped all storm drains and sanitary sewer systems. Data collection is complete. We have shared this data with the Conservation Commission and assisted them in establishing a GIS database for their use.
- 14) We have delivered paper maps of the stormdrain system to the Police and Fire Departments. We are continuing to work on mapping and organizing the data. We have purchased ArcGIS software. Our staff has made significant progress incorporating this data into a GIS system.
- 15) We are continuing to perform annual inspections of the storm outfalls.
- 16) The proposed illicit discharge regulations have been adopted into our sewer regulations. As mentioned previously, we do not believe that the illicit discharge is a significant problem in our system, based on the information currently available.
- 19) As mentioned above, the town is working on a comprehensive wastewater management plan and a source water protection plan.
- 20) Same as above.
- 23) The Town has constructed a new DPW building. The new facility has enabled us to greatly improve our maintenance and housekeeping. Consultants have been hired to assist us in preparation of municipal operation and maintenance plans for all town owned facilities.
- 24) We have purchased a newer catch basin cleaner. We have also created a database to better manage the maintenance of the stormdrain system. This has enabled us to substantially increase the number of catch basins that are cleaned each year.
- 25) We are planning to support training seminars for employees as time allows.
- 26) All ongoing road maintenance projects incorporate deep sump catchbasins and grass swales at a minimum.

Next Cycle:

Once again, we are still operating under our previously issued NPDES MS4 permit. As mentioned above, we are trying our best to be proactive and prepare for the new permit so that we can be in compliance when it comes into effect. Our mobile GIS application for Data Collection and Mapping is set to go online shortly and is expected to be fully functional and available for use under the new permit. Although the requirements under the new permit are expected to be significantly more costly to cities and towns, we are attempting to budget appropriate amounts to allow us to be in compliance. This has been somewhat challenging since the next permit incorporates many changes that will significantly impact the cost of the program. The budgets have been prepared utilizing estimated cost data provided by the EPA and recommendations from our consultants. Since actual costs are not known at this time, the budgets may require considerable adjustments in the future as actual costs become available.

We are planning to continue our involvement with the Connecticut River Storm Committee. We expect the remainder of our operations to continue normally.

Changes:

We have hired a consultant to help us prepare the NOI for the new Stormwater Permit. We are currently preparing our budgets for the next fiscal year. We are incorporating cost estimates offered by the by the EPA and information provided by our consultant in order to estimate the cost of compliance for the upcoming year.

Reliance on Others:

As mentioned above, we are preparing a budget in anticipation of the new Storm Phase 2 regulations. The success of the Storm Phase 2 program as well as all other areas such as and pavement maintenance programs are all dependent upon adequate funding. We are hopeful that the taxpayers will support at least the minimum amount necessary for compliance with the new Storm Phase 2 regulations. However, the anticipated costs for compliance are a significant burden to small communities such as ours. We strongly encourage that the EPA and or the State provide additional help to the small communities in the form of direct funding or grants.

Program Summary:

See chart attached

STORM WATER MANAGEMENT PROGRAM SUMMARY

Mass. Transmittal No. _____
 EPA No. 041007

Name: Town Of Granby
 Date: 3-20-18

BMP ID.	BMP	Responsible Dept./Person	Status	Measurable Goal
Minimum Control Measure 1		Public Education /Outreach		
1	Create a Stormwater Program	Selectmen/DPW/Planning/Health	Stormwater regulations adopted	Present to public draft stormwater management plan
2	Create a Stormwater Program	Selectmen/DPW/Planning/Health	Stormwater Regulations adopted	Identify sources of assistance to implement plan
3	Address specific groups	DPW	Brochures available at town hall	Distribute EPA and other relevant educational brochures.
4	Target groups likely to impact stormwater	DPW	Joined Conn. River Storm Committee/ Ongoing	Brochures targeting specific audiences and activities will be available.
5	Identify alternate information	Administrative Assistant/DPW	Stormwater Regulations adopted	Present to public draft of Comprehensive Stormwater Management Plan
6	Identify alternate information	Administrative Assistant/DPW	Ongoing through Conn. River Storm Comm.	Identify funding sources and apply for assistance to implement plan including education and outreach
7	Utilize local public access channel	DPW	In process/ when appropriate	Public meeting notices and reviewing SMP
8	Develop, conduct and document educational programs	Liaison/DPW	Looking for Volunteers Joined Conn. River Storm Committee	Town will appoint a liaison to Conn. And Chicopee river watershed councils
9	Promote household waste recycling	Board of Health/ DPW	On going annually	Sponsor hazardous waste collection days
Minimum Control Measure 2		Public Participation		
10	Storm drain stenciling	DPW	Looking for group to assist Girl Scouts	Develop a stencil program.
11	Community clean ups	Conservation commission/DPW	ongoing	Encourage stream team cleanups
12	Community clean ups	DPW	Always available on request	Provide trucks and support efforts
Minimum Control Measure 3		IDDE		
13	Inventory and Mapping storm drain system	DPW	GIS Data Collected in – house	Identify funding and obtain assistance
14	Mapping and identification of outfalls and	DPW/Assessors	GIS Data Collected in –	Develop and implement a plan to map outfalls to receiving waters

STORM WATER MANAGEMENT PROGRAM SUMMARY

Mass. Transmittal No. _____
EPA No. 041007

Name: Town Of Granby
Date: 3-20-18

24	Develop a municipal operations and Maintenance Plan	DPW	Created Maintenance Database	Implement a formal inspection program
25	Develop and implement training programs for municipal employees	DPW	Ongoing	Send employees for training seminars
26	Review Storm drain infrastructure	DPW	On going	Review infrastructure in chapter 90 utilization

APPENDIX A

Connecticut River Stormwater Committee
Annual Report
April 1, 2017 to March 31, 2018

The Connecticut River Stormwater Committee

The Connecticut River Stormwater Committee is an intergovernmental compact of 17 municipalities that is organized to collaborate in meeting NPDES MS4 permit requirements for stormwater education and outreach (Minimum Control Measure #1). Facilitated and staffed by the Pioneer Valley Planning Commission, the Committee also works together to meet other permit compliance activities where appropriate and needed. Member communities are shown in Table 1 below.

Table 1: Connecticut River Stormwater Committee Member Communities

Member Community	Committee Representatives and Departments
Agawam	Tracey DeMaio, Department of Public Works
Belchertown	Steve Williams, Department of Public Works
Chicopee	Quinn Lonczak, Department of Public Works
East Longmeadow	Bruce Fenney, Department of Public Works
Easthampton	Dan Murphy, Department of Public Works
Granby	Dave Desrosiers, Highway Department
Hadley	Marlo Warner, Department of Public Works
Holyoke	Michael McManus, Department of Public Works
Longmeadow	Mario Mazza and Peter Vancini, Department of Public Works
Ludlow	Jim Goodreau, Department of Public Works
Northampton	Doug McDonald, Department of Public Works
Southwick	Randall Brown, Department of Public Works
South Hadley	Melissa LaBonte, Department of Public Works
Springfield	Kevin Chaffee, Planning/Conservation
West Springfield	Jim Czach and Connor Knightly, Department of Public Works
Westfield	Casey Berube and Joe Kietner, Department of Public Works
Wilbraham	Tonya Basch, Department of Public Works

* Member that joined Committee this year.

Education and Outreach over the Past Year

The Connecticut River Stormwater Committee has moved forward several education and outreach activities under the 2003 permit. At the same time, the delayed start of the 2016 MS4 permit has provided time for the Stormwater Committee to lay further groundwork for its education and outreach program over the longer term. This includes developing a draft matrix of education and outreach activities for the next permit term, participating in the state-wide stormwater coalition education and outreach subcommittee to procure a consultant to develop a state-wide education and outreach campaign, and most recently, meeting with students from Worcester Polytechnic Institute

who are working with MassDEP to prepare a repository of stormwater education and outreach materials for use by MS4 permittees.

The narrative below summarizes the work of the Connecticut River Stormwater Committee during the 2017-2018 reporting year, which includes the following:

1. Produced 30-second radio spot as part of continued Soak up the Rain stormwater education campaign that will run on 3 stations throughout the Pioneer Valley in April 2018
2. Designed website for Connecticut River Stormwater Committee and began developing content
3. Worked with state-wide coalition on procuring services to help with design and materials for state-wide education program
4. Continued to lead urban tree planting project in Chicopee, Holyoke, and Springfield
5. Continued to lead project in Holyoke to reduce urban flows into Day Brook

In addition to these public education and outreach activities described in fuller detail below, members of the Stormwater Committee have joined PVPC in other MS4 permit related activities, including:

- Conducting a series of two training workshops for municipal staff that were videotaped and organized into specific modules that can now be used for subsequent annual training required by the new permit. Designed in consultation with consultant Wright Pierce, topics covered elements under the "good housekeeping" and the "illicit discharge detection and elimination" categories of the stormwater permit. Funding for these workshops was provided in part by the Massachusetts Department of Administration and Finance's Efficiency and Regionalization grant. The videos have already been shared with other MS4s in the state and are being loaded to YouTube for easy access by any other MS4 in Massachusetts who wishes to use them. Going forward, Connecticut River Stormwater Committee members have decided to use the video training modules as part of annual events where trainees from the region come together, watch the video modules, and then engage in discussion and problem solving. This will provide for more meaningful engagement than trainees watching videos on their own. Such an annual training event might also include field visits to learn about specific and/or sampling techniques. PVPC will plan to host these events as part of its Stormwater Committee work.
- Reviewing and updating municipal land use code in nine communities to meet new construction, and development and redevelopment standards within the 2016 federal stormwater permit. Funding for the code review was provided by the Massachusetts Department of Administration and Finance's Efficiency and Regionalization grant. A 10th stormwater committee member community elected to undertake code review through a fee for service arrangement with PVPC. This work included review and update of provisions for control of illicit discharges, erosion and sediment control, stormwater management permitting, subdivision regulations, and zoning. A detailed checklist with recommended code language was developed as part of this work to facilitate review in additional communities going forward.

As there are still many issues to be worked out relative to code, including updating of the Massachusetts Stormwater Standards so that they better relate to the new MS4 permit requirements, and development of model language and procedures to help with off-site mitigation for redevelopment projects, PVPC staff has recommended that communities not immediately adopt code changes developed under this project. PVPC has noted that these

updates are not required to be in place until Year 2 of the permit effective date. PVPC staff is currently working with other members of the state-wide coalition of stormwater coalitions to fold these changes into a state-wide resource package on code updates, including a model bylaw, and the guidance being developed on off-site mitigation.

- Procuring services regionally of Wright Pierce to provide integrated stormwater system mapping and data collection to meet requirements of the new 2016 permit. Seven stormwater committee members—Agawam, Belchertown, Granby, Ludlow, Northampton, South Hadley, and Southwick – are participating in this work. Research conducted in concert with communities prior to this procurement showed significant cost savings in collaborating on this work rather than going it alone.

To date, project work has entailed development of the mapping interface with stormwater infrastructure, and development of forms to ensure that all data required in the new permit (outfall screening and sampling, manhole inspections, catch basin cleaning, etc.) can be captured in the field during inspections and then uploaded to reference with geographically specific locations within Arc GIS mapping of the storm system for analysis in defining priority catchments and annual reporting to EPA.

1. Aired Soak up the Rain radio spot

The Stormwater Committee produced a 30-second radio spot to air, starting April 2. The Soak up the Rain spot is narrated by a local radio personality and calls on people to take notice and take action. It will air 183 times in a three-week period on three different radio stations in the region, covering all Stormwater Committee member communities. It will be aired at peak and non-peak listening hours to reach a variety of different audiences. The 30-second spot reads as follows:

When stormwater flows across yards, driveways or parking lots, it picks up leaked car oil, lawn chemicals, litter and animal waste.

This contaminated water ends up in the Connecticut River.

Help keep our river clean. Don't let rain run – soak it up.

Redirect downspouts to your lawn. Use a rain barrel. Create a rain garden or install porous pavement.

Brought to you by the Connecticut River Stormwater Committee, a coalition of 17 Pioneer Valley communities.

Learn more at soakuptherain.pvpc.org



Radio stations in the region that will air the Soak up the Rain radio spot.

It is hoped that interested listeners will follow the reference to the soak up the rain web page and the Committee will be able to make some determination of the spot's effectiveness by counting the increase in clicks on the web site. Results will provide some direction to the Committee as it continues to develop its 5-year education and outreach program under the new 2016 permit.

Production of the radio spot follows on an unsuccessful 4-month effort toward adapting a stormwater video from West Michigan Environmental Action Council. Members had researched stormwater messaging videos, selected the West Michigan video, engaged a local video producer for the adaptation, and worked out the terms of an agreement with the West Michigan group. The problem arose, when the local video producer learned that the Michigan group had no high resolution video file from which to work. Given that the Connecticut River Stormwater Committee members had talked about more than website use of the adapted video, a low resolution file was not adequate. It was surprising that without a high resolution file of the video, the West Michigan group would take the conversation so far. Nonetheless, this was an important lesson in learning what the right first question is to ask when talking about video adaptation.

2. Designed website for Connecticut River Stormwater Committee

While each stormwater committee member continues to maintain and update stormwater information on each of their municipal websites, there is a need to promote stormwater information on a regional Connecticut River website. The regional stormwater website will provide one website reference for forthcoming publications and media outreach work. Links can be made from the local municipal websites to the regional website and vice versa.

Design of the Connecticut River stormwater website includes "portals" for exploring the site in two ways: as an audience enumerated in the MS4 permit (resident, business, developer, industry) and as someone interested in learning more about a specific stormwater best practice important to water quality issues in the region: lawn and yard care, pet waste management, car care, soak up the rain, turf management, and septic system care. Committee members have been talking too about the importance of finding ways to include materials for educators (stormwater curriculum lessons), and agriculture (perhaps connecting to resources through the Extension Program at the University of Massachusetts, Amherst, and any nonpoint source nitrogen reduction initiatives that may emerge).

Content for the website is currently under development by PVPC. It is expected that additional content will be available through the statewide coalition if stormwater coalitions, which has just hired Water Words that Work to outline a state-wide education and outreach Think Blue campaign with development of some associated materials.

One important facet of this regional Connecticut River stormwater website is building the connection between enjoying and appreciating the resource and connecting to action. As such, PVPC will be working with its current Connecticut River US website, maintained in partnership with the Connecticut River Conservancy, to draw stronger lines between getting out on the resource and taking action for stormwater. The Connecticut River US website has information on paddling, trails, and water quality.

HOME ABOUT US FOR RESIDENTIAL PROPERTY OWNERS FOR BUSINESS, COMMERCIAL AND BUSINESS FACILITIES FOR DEVELOPERS AND CONTRACTORS FOR INDUSTRIAL FACILITIES



THINK A Clean Connecticut River BLUE: Starts with You!

DO THE RIGHT THING

Lawn and Yard Care



Pet Waste Management



Car Care



Soak Up The Rain



Turf Management



Septic System Care



GET OUT ON THE RIVER! → ConnecticutRiver.us

HOME
About
Best Practices

ABOUT US
Who We Are
What We Do

FOR RESIDENTIAL PROPERTY OWNERS
How To
Best Practices

Design of Connecticut River Stormwater website that is in development.

3. Collaborated with state-wide stormwater coalition of coalitions

On behalf of Connecticut River Stormwater Committee members, PVPC has been active on the larger coalition of state-wide stormwater coalitions committee and the group's education and outreach subcommittee. The group was successful in applying for and receiving a \$200,000 MS4 assistance grant to lay the groundwork for a state-wide stormwater outreach campaign. The campaign will help to define messaging, lay out a plan of work to meet education and outreach permit requirements, and develop a selection of materials for use by coalitions and municipalities. Water Words that Work was just selected as the project consultant at the end of March. PVPC staff is excited by the prospect of working with such a talented consultant that has developed state-wide stormwater campaigns in several states already. At the same time, staff is hopeful that the 5-year education and outreach framework it has been developing with Connecticut River Stormwater Committee members can be further refined with consultant input.

The following two projects, while specific to certain municipalities, are expanding awareness regionally about stormwater. They also serve to build capacity and know-how in planning, design, and construction of better stormwater management practices. Each project has its own outreach and education component.

4. Continue to lead urban tree planting project in Chicopee, Holyoke, and Springfield

PVPC continues to lead an effort to promote urban tree planting in the region's 3 major cities in partnership with the US Forest Service, Massachusetts Executive Office of Energy and Environmental Affairs, the Valley Opportunity Council, Nuestras Raices, ReGreen Springfield, Conway School of Design, Mass DCR, and the Cities of Chicopee, Holyoke, Springfield. Aimed at reducing stormwater flows to combined sewer areas and promoting greater climate resilience, the project involves an integrated community outreach process involving multiple neighborhood workshops and workshops for public works officials. Once completed, the project will provide the following major deliverables:

- installation of 2,200 trees on local streets and yards
- final engineering design for a green streets in each municipality
- model stormwater tree rebate ordinance

The project is made possible thanks to a \$239,000 grant award to PVPC from the US Forest Service under the State and Private Forestry FY15 Northeastern Area Landscape Scale Restoration Program.

5. Continue to lead project in Holyoke to reduce urban flows into Day Brook

Through an EPA Urban Small Waters Grant, PVPC is developing a green infrastructure plan for Day Brook in Holyoke, which flows from west to east, remaining above-ground from Anniversary Hill Park and Community Field before being conveyed underground beneath the City and routed through the Waste Water Treatment Plant.

In this past year, the project completed work to increase awareness about this "secret stream" *running unseen through the urban landscape*. Conducted largely by project partner Enchanted

Circle Theater, awareness work this year followed a six-week lesson series that engaged third and fifth graders in learning about stormwater and producing artwork for use in a mural and “storywalk” about Day Brook.

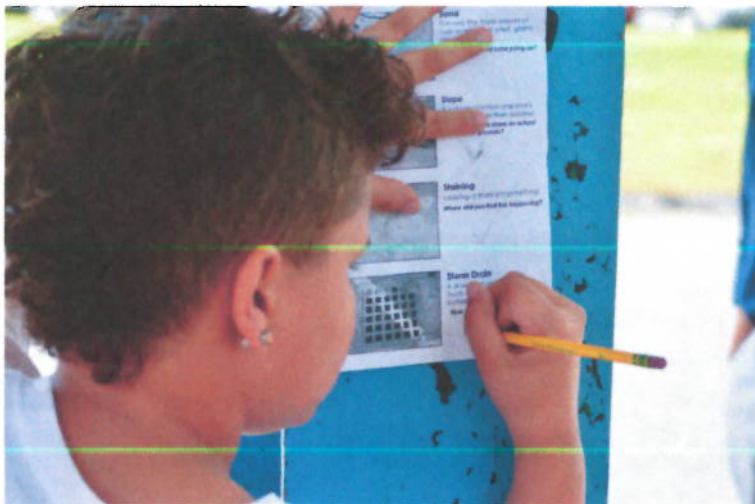
The mural, which relates the unseen journey of Day Brook in Holyoke, was unveiled at a ribbon cutting event at Community Field in June. The event for the mural included stormwater learning stations, including rain gardens in a cup activities. The storywalk unveiling occurred at the Sullivan School in September as part of Arts in Education Week. Students participated in the unveiling and then spent time being stormwater detectives on the school grounds, working in teams to check off items on a treasure hunt list. The story walk, conceived as movable artwork that tells the story of Day Brook in a series of six panels, has been installed for periods of time at the Sullivan School, Community Field, City Hall, and the Public Library.



Students enjoyed the thrill of unveiling the Day Brook story walk at the Sullivan School in Holyoke. The story walk incorporated student artwork and words telling the history of Day Brook.



Local media provided good coverage of the story walk unveiling.



As part of the story walk unveiling event, a student records finding a storm drain in the stormwater detectives treasure hunt on school property in photo above. In photo at right, Sullivan School Principal John Breish talks with students about a pipe draining storm flow from the school's roof.

