Chagrin River Watershed Partners, Inc. strives to preserve and enhance the scenic and environmental quality of the ecosystem of the Chagrin River and its watershed in a manner that assures a sustainable future for people, plants and animals.
Water is the lifeblood of our green and beautiful world in the Chagrin River Valley, and our streams and rivers are the arteries that maintain the endless self-renewing cycle of pure water that sustains us. We also know that water can be destructive, when mother nature gives us too much of it and we are faced with costly flooding and erosion. The challenge is to find ways to preserve the benefits of a clean and healthy watershed, while minimizing the adverse impacts of storms and floods. What is the most cost effective approach to maintain water quality while avoiding the damaging effects of flooding and erosion?

The best approach for achieving cost effective management for healthy watersheds lies in following the principles of system resilience. Resilience principles recognize that our streams and rivers link us into an interlocking system, where a flood or crumbling stream bank in any one location can have serious effects far downstream. To make the whole system resilient, we seek solutions that work with nature, that bend but don’t break, and that gently absorb the volume and energy of runoff and floods by allowing running water to dissipate slowly into the ground, before it becomes a destructive force.

In order to achieve healthy and resilient watersheds, our solutions to stormwater runoff employ three basic approaches:

- They are “soft” instead of “hard.” Think of water pounding against concrete or stone, or collecting in pipes, as “hard” ways used to contain its force. Hard solutions resist force rigidly; they work for a while, but they are costly to build and maintain, and eventually break or are overwhelmed, with the potential to cause large-scale damage. Our softer approaches rely on slowly dissipating the force of water; for example, in grassy swales, rain gardens, floodplains, stream setbacks, or pervious pavement. Soft water management techniques work better, are less costly, and they last longer.

- They are diverse. We advocate the use of many relatively small, on-site techniques to capture and slow down runoff. Frequently, two or more approaches that are linked on the same site; for example, pervious pavement overflow can link to a grassy swale, which can then connect to a wetland. On-site techniques give more built-in reliability to the overall system, because they are distributed over a wide area, and are unlikely to fail all at once.

- They seek to capture and slow down runoff at the source, as far upstream as possible. It is much less costly and more effective in the long run to slow down and dissipate rainfall as it hits the ground, than to allow it to gather force as it increases in volume in pipes and then rushes into larger streams.

In this report, you will see many examples of these principles at work. As you review them, feel free to call us and talk about how they might apply to your own community. Our staff is ready to help you create resilient solutions to your stormwater runoff problems.

Greg Studen, President,
Chagrin River Watershed Partners, Inc.
Members and CRWP Work Together to Protect a Healthy Chagrin River Watershed

2014 Quick Facts

“Newbury Township and CRWP have been long-time partners with CRWP staff providing technical advice regarding “best land use practices,” which ultimately were incorporated into Newbury’s zoning resolution, and grant application assistance. Presently CRWP is assisting the Township with unique design elements at its new Veterans Memorial Park that address drainage issues while providing handicap access. The CRWP staff is great at examining a project, determining any obstacles and then providing practical solutions. Newbury continues to benefit from its relationship and we look forward to a collective future.”

– Glen Quigley, Newbury Township Trustee
Healthy Watersheds Support Healthy Economies

Healthy watersheds filter and store water, filter air, store carbon, cycle nutrients and build soil.

In addition to many intrinsic recreational, cultural, spiritual and aesthetic values, protecting healthy watersheds:

- Lowers drinking water treatment costs
- Minimizes flooding vulnerability, damage and clean up costs
- Avoids expensive restoration activities
- Sustains revenue-generating recreational and tourism opportunities
- Provides flood control and clean water at a fraction of the cost of engineered services
- Increases property values
- Ensures that we leave a foundation for a vibrant economy for generations to come

“A watershed protection is less expensive than building new ‘grey’ infrastructure.”

A recent study found that Cleveland Metroparks contributes at least $855 million annually to Cuyahoga County’s economy through increased property values, enhanced stormwater retention, recreation, tourism and other human health and environmental benefits.
In addition to these special projects, CRWP staff performed at least one landowner technical visit in each Member community in 2014.
Helping Members Invest in Bioretention to Keep Our Streams Clean

Managing stormwater near its source reduces flooding and erosion problems along streams. Installing bioretention allows rain water to soak into the ground near where it falls, which helps protect the Chagrin River and its tributaries from erosive flows, stormwater pollution, and flushes of warm water. Bioretention can also be an attractive landscape feature. CRWP provided grant writing and/or project assistance on the bioretention projects shown here.

Ursuline College in Pepper Pike Protects Pepper Creek+

Ursuline College installed a 2,800 square foot bioretention cell to treat stormwater runoff from an adjacent parking lot before it drains to a Pepper Creek tributary.

Chagrin Falls Village Helps Keep the Chagrin River Clean+

Chagrin Falls constructed a turfed linear bioretention cell to treat runoff from Solon Road that drains to the Chagrin River.

Cleveland Metroparks Reduces Runoff to the Chagrin River+

The North Chagrin Nature Center’s bioretention cell treats parking lot runoff that discharges to a wetland and the Chagrin River.

“Always responsive to the needs of Pepper Pike and its residents, CRWP is a very important part of our team.”
– Mayor Richard Bain, City of Pepper Pike

Watch for Pepper Pike’s Morgan Park bioretention project in 2015*

* Funded in part by Ohio EPA’s Section 319 Grant
+ Funded in part by Ohio EPA’s Surface Water Improvement Fund
Bioretention Performance

With funding from a NERRS Science Collaborative grant, CRWP has been leading an effort with Old Woman Creek National Estuarine Research Reserve (NERR), Ohio Department of Natural Resources Division of Soil and Water Resources, North Carolina State University, and Erie Soil and Water Conservation District to evaluate the performance of bioretention and permeable pavement on poorly draining soil in northern Ohio. We have been monitoring bioretention at Orange Village’s Service Center, Holden Arboretum in Kirtland, and Ursuline College in Pepper Pike. Initial results indicate:

- Ursuline College’s bioretention cell has reduced the stormwater runoff from the adjacent parking lot by 75% through infiltration, evaporation, and uptake by plants. 65% of rain events this summer resulted in no runoff leaving the site.
- Bioretention at Holden Arboretum has reduced parking lot runoff by 64%.
- Bioretention effectively slows down the pace at which stormwater leaves a site and enters storm sewers or roadside ditches, with a median peak flow reduction of at least 96%.

The project team is also using computer models to better understand bioretention performance. Initial results indicate:

- Ohio Environmental Protection Agency (Ohio EPA) requires Phase II communities to treat the volume of stormwater that runs off from a 3/4 inch (or less) rain event to improve the water quality of receiving streams. Appropriately designed bioretention can infiltrate and treat this required volume, even on poorly draining soils.
- Bioretention can contribute to meeting peak discharge requirements for flood control.

Bioretention Maintenance Tips

Bioretention maintenance is generally similar to the maintenance requirements of traditional landscaping. CRWP can provide training and technical assistance, including inspection forms to assist with bioretention maintenance.

- Avoid placing excess mulch to maintain intended storage capacity
- Check inlets and outlets for erosion and stabilize any problem areas with vegetation or rock
- Remove trash and keep inlets and outlets free of debris
- Inspect after storm events
- Weed regularly and prune vegetation at the end of the growing season
Helping Members Invest in Permeable Pavement to Reduce Runoff

Like bioretention, permeable pavement is another investment that allows water to soak in near its source and reduces flooding and erosion problems along streams. Permeable pavement helps reduce erosive flows, stormwater pollution, and flushes of warm water to the Chagrin River and its tributaries. Site owners benefit from lower salt requirements in the winter, no black ice formation, and fewer puddles in their parking lots. CRWP provided grant writing and/or project assistance on the permeable pavement projects shown here.

Mayfield Village reduces runoff to Beecher’s Brook+

Mayfield Village excavated the driveway and parking lot at the Civic Center before installing permeable pavement.

After excavation, workers installed an underdrain system and layers of sand and gravel to infiltrate and treat stormwater runoff that drains to Beecher's Brook.

Workers installed permeable pavers on top of the gravel filter layers. The new permeable pavement was designed to improve Civic Center parking lot traffic flow and aesthetics, and includes a connection to Mayfield Village's trail system.

Watch for these permeable pavement projects in 2015

* Woodmere Service Facility +
* Pepper Pike Morgan Park *
* Lake Stormwater Management Department communities *
* Mentor - Great Lakes Mall ^
* Mentor - Wildwood Park +

* Funded in part by Ohio EPA’s Section 319 Grant
+ Funded in part by Ohio EPA’s Surface Water Improvement Fund
^ Funded by USEPA through the Great Lakes Restoration Initiative
Permeable Pavement Performance

Through CRWP’s NERRS Science Collaborative grant project, we have been monitoring permeable pavement installations at Orange Village, Willoughby Hills, Perkins Township (Erie County), and Old Woman Creek NERR (Erie County). Preliminary results indicate:

• Permeable pavement reduces the amount of stormwater leaving a site by 15 – 50% compared to conventional asphalt or concrete. Volume reduction is influenced by a variety of site conditions and design decisions.
• Permeable pavement slows the speed at which stormwater leaves a site and enters communities’ storm sewers or roadside ditches, with a median reduction of at least 70%.

The project team is also using computer models to better understand permeable pavement performance. Initial results indicate:

• On sites with poorly draining soils, permeable pavement systems receiving runoff from an equal area of conventional pavement can infiltrate all the runoff from a 3/4 inch rain event if designed with an internal water storage area to promote infiltration.
• Permeable pavement can help projects meet peak discharge requirements for flood control.

Permeable Pavement Maintenance Tips

• Sweep pavers with regenerative air street sweepers when the surface layer begins to clog.
• Replace gravel in the spaces between permeable pavers after sweeping.
• Maintenance requirements vary based on the size and condition of the conventional pavement that drains to the permeable pavement.
• Overhanging trees can cause leaves to accumulate on the permeable pavement and increase the need for maintenance.

CRWP is working with North Carolina State University to do simple infiltration tests to determine when permeable pavement needs maintenance. We are learning that maintenance intervals are site specific. For example, a 2 year old installation has not yet needed maintenance, while another needed to be vacuumed less than a year after installation. CRWP can provide training and technical assistance, including inspection forms to assist with permeable pavement maintenance.
Helping Members Restore Our Streams

Restoring impacted streams, floodplains and riparian corridors are also ways we invest in maintaining the health of the Chagrin River. Healthy watersheds can significantly lower costs associated with flooding, reduce erosion and are less impacted by extreme weather. CRWP provided grant writing and/or project assistance on the restoration projects shown here.

Chardon Township Restores East Branch Headwater Stream

**Before:** Severe erosion on an East Branch headwater stream caused excessive downstream sedimentation and unsafe conditions on the adjacent road (upper left).

**After:** Chardon Township built up the streambed into a series of rock step pools to reduce in-stream erosion and velocity, and graded, planted and stabilized the slopes.

Ursuline College in Pepper Pike Restores Pepper Creek Headwater Stream

**Before:** Pepper Creek headwater stream in Pepper Pike was impacted by erosion and sedimentation.

**After:** Ursuline College graded the streambank and added rock protection and plants to restore the stream.

“We wouldn’t have gotten this done without CRWP. I wouldn’t have had the time to do everything they did.”

– John Washco, Chardon Township Road Superintendent

+ Funded in part by Ohio EPA’s Surface Water Improvement Fund
Willoughby Restores Chagrin River at Todd Field*

The City of Willoughby will install three bendway weirs to stabilize 214 feet of streambank. Bendway weirs are rock structures designed to direct river flow away from eroding streambanks and towards the center of the channel and have been used successfully on large rivers including the Mississippi and the Ottawa Rivers (pictured below right) to reduce damage from erosion. Willoughby will also plant native shrubs along the streambank to provide additional erosion control.

Willoughby will restore the Chagrin River’s eroding streambank at Todd Field by installing bendway weirs in 2015.

Example of bendway weirs on the Ottawa River that direct flow away from eroding streambanks into the center of the stream channel.

CRWP Restores Newell/Ward Creek at the City of Willoughby’s Lost Nation Golf Course^

July 2014: Native plants installed in Fall 2013 along Ward Creek through Lost Nation Golf Course have filled in and help keep the streambanks stable and remove pollutants from runoff before it reaches the stream. This Great Lakes Restoration Initiative funded project restored 1,450 feet of stream and was featured in two trade magazines.

“The Ward Creek stream restoration on Lost Nation Golf Course has provided numerous benefits to the course and the surrounding area. It has helped to decrease flooding for upstream residents and has alleviated longstanding erosion problems on the golf course. As a side benefit, it has greatly contributed to the aesthetic look of the course. Working with CRWP on this project was a pleasure, and we are very happy with the outcome.” – Mayor David Anderson, City of Willoughby

* Funded in part by Ohio EPA’s Section 319 Grant  
^ Funded by USEPA through the Great Lakes Restoration Initiative
Holden Arboretum: East Branch Floodplain Restoration in Chardon Township*

Spring 2014: East Branch floodplain vegetation has filled in after Holden Arboretum removed a levee and planted native vegetation.

Summer 2014: Floodplain access allows the East Branch to dissipate its energy and prevent downstream erosion. Woody vegetation provides added stability.

Holden Arboretum: Pierson Creek Headwater Stream Restoration in the City of Kirtland*

Fall 2013: Holden Arboretum removed a concrete spillway, reshaped the tributary to Pierson Creek, and created floodplain access for the stream.

Spring 2014: Established vegetation helps stabilize Pierson Creek tributary streambanks. Holden Arboretum will plant additional shrubs and plants along the streambanks.

Watch for these restoration projects in 2015

- Sulphur Springs headwater wetland at Cleveland Metroparks in Solon*
- Pepper Creek at Morgan Park in Pepper Pike*
- Aurora Branch of the Chagrin River in Aurora –
- East Branch and Lower Main Landowner Assistance #
- Solon St. Mary’s stream restoration*

* Funded in part by Ohio EPA’s Section 319 Grant
* Funded in part by Water Resource Restoration Sponsor Program (WRRSP)
# Funded in part by Great Lakes Basin Program for Soil Erosion and Sediment Control
CRWP Educates Residents and Professionals

Teaching Residents How to Maintain a Healthy Chagrin River

- Fox 8 News broadcasted an interview with CRWP and Lake Soil & Water Conservation District staff about the benefits of rain barrels.
- As part of the Northeast Ohio Public Involvement Public Education (NEOPIPE) workgroup, CRWP helped host a residential workshop in August on maintaining healthy soils that was attended by 84 people across 8 counties; 22 of the attendees were from CRWP Member communities.
- CRWP also helped produce a 2015 calendar with NEOPIPE on healthy lawn care that was distributed to 500 residents in Moreland Hills, Solon, Gates Mills Village, Mentor, Willoughby, and Eastlake.
- CRWP coordinated with the Moreland Hills Green-Parks Commission on an educational program to teach residents about stormwater and erosion management, alternative lawn fertilization methods, and backyard composting.

After the program Moreland Hills’ Mayor, Susan Renda, wrote, “...thank you for the presentation you gave at Moreland Hills Village Hall on September 17. You did a wonderful job and I appreciate your efforts.”

Training and Collaborating with Stormwater Professionals

- Through its NERRS Science Collaborative Project, CRWP worked with stormwater professionals on research to develop credits and incentives for low impact development. Stormwater professionals attended two Collaborative Learning Group meetings to discuss research and learn about pervious pavement and bioretention performance.
- CRWP assisted Old Woman Creek NERR and the Northeast Ohio Stormwater Training Council with a stormwater control measure inspection and maintenance training on October 1.
- Ohio Stormwater Conference – CRWP and project partners presented on pervious pavement and bioretention performance, stream restoration at Lost Nation Golf Course and a residential program providing free rain gardens, rain barrels and shade trees.
- Ohio Planning Conference – CRWP presented on model codes for stormwater management and balanced growth.
- CRWP assisted with a Northeast Ohio Stormwater Training Council erosion and sediment control workshop.
Residents and Volunteers Invest in a Healthy Chagrin River Watershed

Newell/Ward Creek Watershed Residents Reduce Runoff

In September, CRWP wrapped up its Great Lakes Restoration Initiative-funded program to provide free rain garden kits, rain barrels, and shade trees to Newell/Ward Creek watershed residents. Through the program, residents installed 171 trees, 122 rain barrels and 11 rain gardens in Mentor, Eastlake, and Willoughby to help manage stormwater flow and improve water quality in Newell/Ward Creek. We enjoyed working with the residents and hope to expand this type of program throughout the Chagrin River watershed in the future!

If you would like assistance with seeking funding for a similar program in your community please contact CRWP.

“So glad about our trees, we love them! What a difference it makes…thanks again for helping us.”
– Mentor resident

“River birch (left) and cardinal flower (above) are two of the native plants residents received as part of the stormwater program. They do well in wet soils and provide a beautiful addition to any backyard!”

“We got the rain garden in just in time …! It did its job and kept a lot of water from going into the yard.”
– Willoughby resident

“I have been getting a lot of use out of my rain barrels! Especially since we have had our share of rain. I water my veggie garden from the barrels on the days we don’t get help from Mother Nature. I love the fact that I’m using mostly water from above to feed my plants!”
– Willoughby resident

“It All Adds Up

In 2014 Members and CRWP planted over 10 thousand native trees and shrubs in the Chagrin River watershed. These plants will help keep over 12 million gallons of runoff from entering our storm sewers and streams every year!

“We hooked the rain barrels up right away…we enjoyed the Facebook page. Thank you for the opportunity to participate.”
– Eastlake resident
Property Owners and Volunteers Help Keep Streams Clean

CRWP helped Holden Arboretum staff plant native perennials in a stormwater swale along Baldwin Road in Kirtland Hills to filter and slow down runoff that drains to the East Branch as part of a Surface Water Improvement Fund project (photo by Maggie Stark).

Ursuline College students planted native woody shrubs along a restored stream on campus to reduce runoff and streambank erosion as part of a Surface Water Improvement Fund project.

CRWP & Western Reserve Land Conservancy staff and Chagrin Falls High School student and teacher volunteers planted 1,300 native trees and shrubs along the Chagrin River at Whitesburg Park Preserve in Chagrin Falls Village to reduce runoff and erosion through a US Forest Service grant.

CRWP helped a Munson Township landowner install a heavy use pad for their horses to minimize erosion and sedimentation to the East Branch. The landowner received cost share assistance through the Great Lakes Basin Program for Soil Erosion and Sediment Control.
This year, Ohio EPA released a new National Pollution Discharge and Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit to cover Phase II communities from 2014 through September 2019. Twenty-one CRWP communities are regulated under this permit and have been implementing their stormwater management programs since 2003. The new permit requires that Phase II communities:

- Revise their erosion and sediment control and comprehensive stormwater management codes to ensure compliance with new permit requirements.
- Update Stormwater Management Programs (SWMPs).

CRWP assists our Members with Phase II implementation.

- CRWP, with the Northeast Ohio Areawide Coordinating Agency and Ohio EPA, developed factsheets and guidance to help streamline the required SWMP updates.
- CRWP’s model erosion and sediment control and comprehensive stormwater management codes are recommended by Ohio EPA as the preferred regional models.
- CRWP will continue to work with our Members to review and update their codes and SWMPs to ensure compliance with the new permit.

Local Land Use Codes for Watershed Protection

Based on CRWP-led research to evaluate the performance of stormwater control measures on poorly draining soils, CRWP has updated its model comprehensive stormwater and erosion and sediment control code to include recommended higher standards that encourage low impact development on private property and lessen the burden of aging and undersized stormwater infrastructure on communities.

“Thank you very much for all of your assistance in our stormwater activities. We appreciate it!”
– Rob Jamieson, Superintendent of Streets, Village of Chagrin Falls

“The Mantua Township Zoning Commission worked very closely with Amy Brennan and Kristen Buccier for about a year in developing some cutting edge regulations concerning Conservation Commercial Development as applied to a large block of land currently used as a campground. Should the occasion arise, the Zoning Commission hopes to have in place this conservation plan so that any future commercial development of that property would preserve its lovely lakeside setting of hills, trees, and open space.”
– Lynn Harvey, Chair, Mantua Township Zoning Commission
A Year of Transition

In May 2014, Director Amy Holtshouse Brennan departed CRWP to join The Nature Conservancy as Lake Erie Conservation Director. Amy was hired at CRWP in 2002 and promoted to Director in 2008. During her tenure, she led the development of the Chagrin River Watershed Action Plan and Balanced Growth Plan, two important road maps for protection and restoration of the Chagrin River. Amy continued CRWP’s work to investigate the benefits of low impact development and introduce the concept to Chagrin communities and was integral to the planning and implementation of many stream restoration projects. She expanded CRWP’s GIS capabilities to support effective and efficient Member services and worked to enhance and update CRWP model codes. Under her leadership CRWP secured over $11.9 million in grant funding to help communities address flooding, erosion and water quality issues and maintained strong Member support through the economic recession. The CRWP Board extends its gratitude to Amy for her dedicated leadership and service.

The Board wishes to recognize the dedication and hard work of CRWP’s staff in 2014. Kristen Buccier, Keely Davidson-Bennett, Linda Moran and Christina Znidarsic all took on additional responsibilities and did a tremendous job keeping CRWP on track throughout the transition. Heather Elmer was appointed CRWP Director in July 2014. She brings over a decade of experience assisting communities with effective stormwater and watershed management and looks forward to working with the CRWP staff, Board and Members to build upon our past accomplishments.

Watershed Group Collaboration Benefits the Chagrin River Watershed

Amy Brennan continues working for the benefit of the Chagrin River in her new role at The Nature Conservancy. With support from the Gund Foundation, CRWP and other watershed organizations in the Central Lake Erie Basin met to explore how we can work together more effectively and efficiently. Participating organizations mapped their collective resources and expertise, partnered to improve watershed education and communication, and are exploring additional ways to collaborate and possible funding sources. CRWP has been a leader in this effort and has provided code review and technical expertise through Gund funding and additional external service contracts. Increasing technical capacity, communication and coordination across watershed organizations will enhance CRWP’s impact through adoption of CRWP model codes, increased stormwater management capacity, and additional restoration for healthy streams in the Central Lake Erie Basin.

“Our collaboration with CRWP not only conducted work that the Doan Brook Watershed Partnership staff does not have the expertise to perform, but they also assisted us in ways we did not realize we needed. Our Board and staff appreciated the municipal stormwater code review performed by CRWP for its thorough and innovative suggestions.”

- Victoria Mills, Executive Director, Doan Brook Watershed Partnership
CRWP Leverages Member Dues to Protect and Restore the Chagrin River

In 2014

• For every $1 in member dues CRWP secured $8.50 in additional grant funds for watershed management.
• CRWP assisted Members with 29 funded and 7 pending grant projects totaling $10,586,335.

Sources of 2014 Operating Income

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<td>NERRS Science Collaborative</td>
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*Includes 15 grants from Ohio EPA Section 319 and Surface Water Improvement Fund, Water Resource Restoration Sponsor Program and U.S. Forest Service

Thank You

CRWP Executive Committee
Greg Studen, President
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William Tomko, Treasurer
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Mentor
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Munson Township
Newbury Township
Orange Village
Pepper Pike
Russell Township
Solon
South Russell
Waite Hill
Wickliffe
Willoughby
Willoughby Hills
Woodmere
CRWP’s 2014 accomplishments were made possible through partnerships with CRWP Members; Cuyahoga, Geauga, Lake and Portage County Soil & Water Conservation Districts, Planning Commissions, and Health Departments; Geauga and Lake County Engineers; Lake County Stormwater Management Department; Lake County Port Authority; Port Authority of Eastlake; Grant Funders; Sponsoring Members; Donors; In Kind Services Providers and Volunteers.

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Gund Foundation
NERRS Science Collaborative through NOAA and the University of New Hampshire
NOAA Coastal Storms Program administered by Ohio Sea Grant through Ohio State University Research Foundation
Northeast Ohio Regional Sewer District
Watershed Grants Program
Ohio Department of Natural Resources
Office of Coastal Management
Ohio Environmental Protection Agency,
Ohio Environmental Education Fund through NEORSD
Ohio Environmental Protection Agency,
Section 319 Grant Program
Ohio Environmental Protection Agency,
Surface Water Improvement Fund
Ohio Lake Erie Commission,
Lake Erie Protection Fund
US Environmental Protection Agency –
Great Lakes Restoration Initiative (GLRI)
US Forest Service - Northeastern Area
State & Private Forestry GLRI through Chagrin Falls Village
Water Resource Restoration Sponsor Program through the City of Aurora

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Amy Holtshouse Brennan
Chagrin Falls High School students and faculty
Cleveland Metroparks Watershed Volunteer Program
Colleen Ballow, Cuyahoga Community College student intern
Friends of Old Woman Creek
Gerald and Nancy Goldberg Family Philanthropic Fund at the Cleveland Foundation
Holden Arboretum
James McSherry, McSherry & Associates
Joseph Znidarsic through the Ritz-Carlton “A Vow to Help Others” program
Lake County Stormwater Management Dept.
Northeast Ohio Regional Sewer District
Ohio Central Basin Steelheaders
Old Woman Creek NERR
Rebecca Jacobson, TIDES Intern
The Nature Conservancy - Ohio
Ursuline College students, faculty and community members
Western Reserve Federation of Conservationists
Western Reserve Land Conservancy
CRWP is a non-profit organization that provides technical assistance to its Members and develops cost effective, prevention-focused solutions to minimize new, and address current, natural resource management problems as communities grow. The Chagrin River watershed is a high quality natural resource that is increasingly impacted by urban/suburban development which increases flooding, erosion, and water quality problems. Faced with rising infrastructure costs as a result of these impacts, the cities, villages, townships, counties, and park districts of the watershed formed CRWP in 1996. CRWP is now an established organization that has grown from 16 Members in 1996 to 36 Members in 2014, representing 91% of the watershed.

2015 Board of Trustees
Meeting Dates

February 19, 2015
May 21, 2015 (Annual Meeting)
September 15, 2015
December 10, 2015

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