CRWP Sponsors

AECOM

APPLIED ECOLOGICAL SERVICES

Biohabitats

CAVITCH
FAMILO & DURKIN

Coldwater Consulting, LLC

Civil & Environmental Consultants, Inc.

Creative Advisors

Chagrin Valley Engineering, LTD.
CRWP Sponsors

Ohio Stream Preservation

PROCESS TECHNOLOGY

RiverReach Construction

Stephen Hovancsek & Associates, Inc.

TGC Engineering

TETRA TECH

Strand Associates

Western Reserve Land Conservancy
• Minutes of September 17, 2019 Board of Directors Meeting
• Treasurer's Report for November 2019
• 2020 Proposed Budget
• 2020 Schedule of Meetings
• Master Rain Gardener Program
  • Laura Bonnell and Al Barnes
• Village of Chagrin Falls Chagrin River Streambank Stabilization and Riparian Restoration Project
  • Kristen Hebebrand and Bill Tomko
• Staff Activities and Project Updates
• New Business
November 2019 Treasurer’s Report
## November 2019 Treasurer’s Report

<table>
<thead>
<tr>
<th>Income Category</th>
<th>2019 Approved Budget</th>
<th>Current Month</th>
<th>2019 YTD</th>
<th>YTD % of Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRWP Member Dues</td>
<td>114,000</td>
<td>0</td>
<td>114,000</td>
<td>100%</td>
</tr>
<tr>
<td>Sponsors</td>
<td>7,500</td>
<td>0</td>
<td>7,750</td>
<td>103%</td>
</tr>
<tr>
<td>Donations</td>
<td>15,000</td>
<td>521</td>
<td>8,045</td>
<td>54%</td>
</tr>
<tr>
<td>Donated Services (legal and kayak rental)</td>
<td>0</td>
<td>0</td>
<td>459</td>
<td></td>
</tr>
<tr>
<td>Foundation/trust grants</td>
<td>5,167</td>
<td>36,230</td>
<td>36,230</td>
<td>701%</td>
</tr>
<tr>
<td>Government grants</td>
<td>497,920</td>
<td>0</td>
<td>176,194</td>
<td>35%</td>
</tr>
<tr>
<td>Government agencies (service agreements)</td>
<td>181,000</td>
<td>2,000</td>
<td>98,874</td>
<td>55%</td>
</tr>
<tr>
<td>Nonprofit organization contracts/fees</td>
<td>0</td>
<td>2,500</td>
<td>2,712</td>
<td>0%</td>
</tr>
<tr>
<td>Interest-savings/short-term inv</td>
<td>3,725</td>
<td>30</td>
<td>738</td>
<td>20%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Net assets released from restriction: Grants</td>
<td>263,923</td>
<td>91,550</td>
<td>292,648</td>
<td>111%</td>
</tr>
<tr>
<td><strong>TOTAL INCOME</strong></td>
<td><strong>$1,117,462</strong></td>
<td><strong>$133,199</strong></td>
<td><strong>$756,618</strong></td>
<td><strong>68%</strong></td>
</tr>
</tbody>
</table>
# November 2019 Treasurer’s Report

| EXPENSES                              | 2019 Approved Budget | Current Month | 2019 YTD | YTD % of Budget |
|---------------------------------------|----------------------|---------------|----------|----------------|-----------------|
| Contracts - program related           | 480,597              | 128,821       | 291,810  | 61%            |
| Salaries and related expenses         | 503,126              | 40,070        | 445,623  | 89%            |
| Professional services expenses        | 33,000               | 148           | 9,837    | 30%            |
| Non-Personnel related expenses        | 39,870               | 6,661         | 43,235   | 108%           |
| Occupancy                             | 38,460               | 3,187         | 35,489   | 92%            |
| Travel                                | 15,000               | 1,764         | 14,432   | 96%            |
| Other Expenses                        | 7,200                | 473           | 8,085    | 112%           |
| Business Expenses                     | 100                  | 0             | 58       | 76%            |
| **TOTAL EXPENSES**                    | **$1,117,353**       | **$181,124**  | **$848,569** | **76%**      |

<table>
<thead>
<tr>
<th>NET INCOME</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>$109</strong></td>
<td><strong>-$47,925</strong></td>
<td><strong>-$91,952</strong></td>
<td></td>
</tr>
</tbody>
</table>
# November 2019 Treasurer’s Report

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNRESTRICTED CASH - January 1, 2019 per Financial Statement</strong></td>
<td>$78,950</td>
</tr>
<tr>
<td>YTD Income (cash basis)</td>
<td>777,507</td>
</tr>
<tr>
<td>YTD Expenses (cash basis)</td>
<td>767,331</td>
</tr>
<tr>
<td>Released from Board Restricted Cash</td>
<td>79,915</td>
</tr>
<tr>
<td><strong>Unrestricted Cash Remaining</strong></td>
<td>169,040</td>
</tr>
<tr>
<td><strong>Board-Restricted Cash</strong></td>
<td>200,000</td>
</tr>
<tr>
<td><strong>Use Restricted Cash Balance (includes custodial funds)</strong></td>
<td>165,952</td>
</tr>
<tr>
<td><strong>YTD CASH</strong></td>
<td>$534,991</td>
</tr>
</tbody>
</table>

www.crwp.org
Sources of 2019 Operating Income

- Membership Contributions, 12%
- Other Contributions / Income, 2%
- Foundation Grants, 4%
- Governmental Grants & Service Agreements, 82%
2020 Proposed Budget
## 2020 Proposed Budget

<table>
<thead>
<tr>
<th></th>
<th>2019 Actual (11/30/19 and Q4 projected)</th>
<th>2020 Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash - unrestricted</td>
<td>104,518</td>
<td>97,177</td>
</tr>
<tr>
<td>Cash - board-designated</td>
<td>200,000</td>
<td>200,000</td>
</tr>
<tr>
<td><strong>Equity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temporarily restricted net assets</td>
<td>443,612</td>
<td>142,109</td>
</tr>
<tr>
<td>Contributions, Support</td>
<td>2019 Actual (11/30/2019 and Q4 projected)</td>
<td>2020 Proposed</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Member Dues</td>
<td>114,000</td>
<td>121,384</td>
</tr>
<tr>
<td>Sponsors</td>
<td>8,000</td>
<td>9,000</td>
</tr>
<tr>
<td>Donations</td>
<td>11,254</td>
<td>17,500</td>
</tr>
<tr>
<td>Non-govt grants</td>
<td>36,230</td>
<td>42,500</td>
</tr>
<tr>
<td>Government grants</td>
<td>311,963</td>
<td>383,121</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Earned Revenues</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency/government contracts/fees</td>
<td>122,860</td>
<td>189,000</td>
</tr>
<tr>
<td>Nonprofit org. contracts/fees</td>
<td>2,711</td>
<td>0</td>
</tr>
<tr>
<td>Local government contracts/fees</td>
<td>2,261</td>
<td>15,100</td>
</tr>
<tr>
<td>Program Service Fees</td>
<td>19,465</td>
<td>47,900</td>
</tr>
<tr>
<td>Interest-savings/short-term investments</td>
<td>738</td>
<td>2800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Revenues</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Net assets released from restrictions</td>
<td>294,648</td>
<td>226,913</td>
</tr>
</tbody>
</table>

**TOTAL REVENUE**  
$924,130  
$1,055,218
Projected 2020 Revenue
including assets released from restrictions

<table>
<thead>
<tr>
<th>Source</th>
<th>Projected Income</th>
<th>Percent of Budgeted Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member Dues, Sponsors, Donations, Interest</td>
<td>150,684</td>
<td>14%</td>
</tr>
<tr>
<td>Awarded Grants/Service Agreements</td>
<td>600,134</td>
<td>57%</td>
</tr>
<tr>
<td>Pending Grants/Service Agreements</td>
<td>103,500</td>
<td>10%</td>
</tr>
<tr>
<td>Planned Grants/Service Agreements</td>
<td>200,900</td>
<td>19%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$ 1,055,218</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
## 2020 Proposed Budget

<table>
<thead>
<tr>
<th></th>
<th>2019 Actual (11/30/2019 and Q4 projections)</th>
<th>2020 Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Expenses - personnel related</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants, contracts &amp; direct assistance</td>
<td>375,876</td>
<td>404,752</td>
</tr>
<tr>
<td>Salaries &amp; related</td>
<td>486,271</td>
<td>520,780</td>
</tr>
<tr>
<td>Contract service</td>
<td>10,395</td>
<td>16,400</td>
</tr>
<tr>
<td><strong>Non-personnel related expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-personnel</td>
<td>43,744</td>
<td>43,900</td>
</tr>
<tr>
<td>Facility &amp; equipment</td>
<td>38,770</td>
<td>38,800</td>
</tr>
<tr>
<td>Travel &amp; meeting</td>
<td>14,932</td>
<td>14,500</td>
</tr>
<tr>
<td>Other</td>
<td>8,371</td>
<td>7,400</td>
</tr>
<tr>
<td>Business</td>
<td>117</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td><strong>$ 978,477</strong></td>
<td><strong>$ 1,046,632</strong></td>
</tr>
</tbody>
</table>
# 2020 Proposed Budget

<table>
<thead>
<tr>
<th></th>
<th>2019 Actual (11/30/2019 and Q4 projections)</th>
<th>2020 Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Revenue</strong></td>
<td>924,130</td>
<td>1,055,218</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>978,477</td>
<td>1,046,632</td>
</tr>
<tr>
<td><strong>CHANGE IN NET ASSETS</strong></td>
<td>$-53,347</td>
<td>$8,586</td>
</tr>
<tr>
<td><strong>Unrestricted Cash</strong></td>
<td>20,411</td>
<td>105,763</td>
</tr>
<tr>
<td><strong>Board-Restricted Cash</strong></td>
<td>200,000</td>
<td>200,000</td>
</tr>
<tr>
<td><strong>Temporarily-Restricted Cash</strong></td>
<td>161,349</td>
<td>137,500</td>
</tr>
<tr>
<td><strong>TOTAL CASH</strong></td>
<td>$381,760</td>
<td>$443,263</td>
</tr>
</tbody>
</table>
2020 MEETING SCHEDULE

BOARD OF TRUSTEES

4:00 – 6:00 p.m.

• Thursday, February 20
• Thursday, May 14 (Annual Meeting)
• Tuesday, September 15
• Thursday, December 10

EXECUTIVE COMMITTEE

4:30 – 6:00 p.m.

• Thursday, January 23
• Monday, March 16
• Monday, April 20
• Monday, June 15
• Monday, August 17
• Monday, October 19
• Thursday, November 19

www.crwp.org
Master Rain Gardener Program

2019 Updates and 2020 Plans
2019 Program Partners

- Chagrin River Watershed Partners
- Lake County Soil & Water Conservation District
- Cuyahoga Soil & Water Conservation District
- Washtenaw County Water Resources Commissioner
- Cleveland Foundation
- Cleveland Metroparks
- Holden Forests & Gardens
- Lake Metroparks
- Stormwater Management
2019 Online Course

- Week 1: Section 1 Course Introduction
- Master Rain Gardener Certification Course
- Laura Bonnell Project Manager Chagrin River Watershed Partners
- Week 3: Section 2 Soils and Digging
- Elizabeth Hiser Watershed Coordinator Cuyahoga Soil & Water Conservation District

- 8# hhnv#r#Frwxh#Frqwhqw
- Idn{l#epd#h#frp dw
- Vkrw#3l#h#ldn#Z helpdw
- 5<#SdulFlsdqgw
NE Ohio Master Rain Gardener, 2019
Residential Rain Garden
Euclid, OH
Field Trips

Cleveland Metroparks
Wildwood Marina
Bioretention Cell and
Wetland Restoration Project
Avalon Gardens
(In-Person and Online Course)
Impacts and Results

5 Residential Rain Gardens Installed

2 Public Rain Gardens Installed

9 Professional Master Rain Gardeners Certified

6 Residential Master Rain Gardeners Certified

*Expected: 31 More Residential Rain Gardens To Be Installed*

*Expected: Additional Residential Rain Gardens Professionally Installed by Professional Master Rain Gardeners*
Professional Field Day: Perry Middle School
Adopted Public Rain Gardens

- Lake County Fairgrounds
- Concord Township Hall
- Wildwood Cultural Park
- Dawson Blvd. in Mentor
Lessons Learned

1. Offer more optional courses and/or instructional videos on related topics

2. Add more in-person opportunities for online course participants to increase buy-in

3. Require Professionals to install one residential rain garden post course

4. Offer online course in winter season to reach more landscapers/professionals
2020 Course Dates

**Online Course #1:**
Begins February 3
Final in-person class on Saturday, March 21

**In-Person Course #1:**
Wednesdays from 9:30am-2:00pm
May 20 - June 17
Mayfield Village Community Room

**In-Person Course #2:**
Thursdays from 10:00am-2:00pm
July 30 - August 27
Holden Arboretum

**Online Course #2:**
Begins July 17
Final in-person class on Saturday, August 22
Help Spread the Word!

- Post on your websites and social media accounts
- Tell us about neighborhoods with known flooding issues
- Share with professional landscaping companies

crwp.org
Professional Field Day Locations

Professional Field Days:
Saturday, May 2
Saturday, September 12

* Site must be within Lake County
* Installed at no cost to the community
* Will work with the community on plan, design and plant selection
* Community must provide long-term maintenance after installation

Contact Laura Bonnell at lbonnell@crwp.org or 440-975-3870 ext. 1002
Participant Experience

Al Barnes, 2019 NE Ohio Master Rain Gardener
Participant Experience

Al Barnes, 2019 NE Ohio Master Rain Gardener
• Geauga Park District was awarded a $72,000 GLRI grant to plant 2,300 native trees and shrubs over a 10-acre area

• Project will help maintain cold temperatures in headwater streams of Caves Creek, a tributary to the Chagrin River

• Project will reduce over 41,400 gallons of stormwater runoff each year

• CRWP assisted with the grant application, provided technical assistance and review, developed educational materials, and helped arrange and lead a tour of the site
U.S. Forest Service Great Lakes Restoration Initiative Grant: $77,500
Match: In-kind Chagrin Falls Village and Orange Village
Project: 1,250 native plants and shrubs
- River Run Park (485)
- Orange Village Community Park (765)
Village of Chagrin Falls Chagrin River Streambank Stabilization and Riparian Restoration Project

Kristen Hebebrand and Mayor Bill Tomko
Chagrin Falls Village Restoration

Chagrin River Streambank Stabilization and Riparian Restoration Project (Ohio EPA 319 grant)

- Awarded August 2017
- Total Project Cost: $148,000
  - Federal amount: $88,800
  - Local match: $59,200
- Deliverables:
  - Restore 250 linear feet of flood plain and stream channel
  - Install 3 in-stream habitat structures
  - Remove/treat 0.4 acres of invasive species
  - Restore 0.4 acres of riparian area

Current project status:
- Constructed Fall 2017
- Additional riparian plantings October 2019
Griswold Creek Restoration Project

Chagrin Falls Village Restoration

- Streambank slumping
- Loss of floodplain connection
Chagrin Falls Village Restoration

- Streambank slumping
- Loss of floodplain connection
• 4 bendway weir structures- deflect erosive stream velocity to the center of the channel
• Regrade streambanks
• Plant native vegetation along the river and in the floodplain.
Chagrin Falls Village Restoration

- 4 bendway weir structures - deflect erosive stream velocity to the center of the channel
- Regrade streambanks
- Plant native vegetation along the river and in the floodplain.
Staff Activities and Project Updates
National Weather Service seeking comments on proposal to raise flood stage of Chagrin River at Daniels Park gauge

• Comments to CRWP due by Wednesday, December 18th
  – Email: lmoran@crwp.org

• Comments to NWS due by January 10, 2020

crwp.org
## Proposed Flood Stage Changes

### NWS River Forecast Point Flood Stages for the Chagrin River at Willoughby

<table>
<thead>
<tr>
<th>Flood Category</th>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>8</td>
<td>9.0</td>
</tr>
<tr>
<td>Minor</td>
<td>11.0</td>
<td>12.0</td>
</tr>
<tr>
<td>Moderate</td>
<td>13.0</td>
<td>14.0</td>
</tr>
<tr>
<td>Major</td>
<td>16.0</td>
<td>16.0</td>
</tr>
</tbody>
</table>

### Flood Impacts Based on River Stage at USGS in Daniels Park

<table>
<thead>
<tr>
<th>Stage (ft)</th>
<th>Related Impacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>500 year flood level.</td>
</tr>
<tr>
<td>18</td>
<td>100 year flood level. Major flooding from Willoughby Hills to Eastlake. Considerable backwater flooding along all tributaries. Lakeshore Drive threatened by flood waters.</td>
</tr>
<tr>
<td>16.5</td>
<td>The river gage is flooded. Major flooding will affect low lying property near the river. Pelton Road flooded.</td>
</tr>
<tr>
<td>16</td>
<td>Significant flooding in Lake County. In Eastlake areas like Riverside Drive, Willoughby Hills along Dodd Road, Daniels Park in Willoughby, Chagrin River Road, and several other secondary roads along the Chagrin River. Severe flooding occurs along Trailard, Milann, and Chagrin Drives. Floodwaters encroach on North Riverview Drive in Eastlake.</td>
</tr>
<tr>
<td>15</td>
<td>Flood waters threaten properties along Dodd Road in Willoughby Hills. Properties on Riverside Drive impacted in Eastlake.</td>
</tr>
<tr>
<td>14</td>
<td>Property flooded in Trailard, Milann, and Chagrin Drives in Willoughby Hills. Riverside Drive and Boulevard in Eastlake cut off.</td>
</tr>
<tr>
<td>13</td>
<td>Flooding is possible along the northern section of Trailard, Milann, and Chagrin Drives in Willoughby Hills. Dodd Road inundated near Eagle Road.</td>
</tr>
<tr>
<td>12</td>
<td>Some secondary roads near the Chagrin River flood.</td>
</tr>
<tr>
<td>11</td>
<td>Lowland flooding occurs in Daniels Park in Willoughby and in the City of Eastlake.</td>
</tr>
</tbody>
</table>
• 3 focus areas for funding:
  – Land-based strategies to protect our waterways
  – Water-based restoration through natural remedies, treatment, technologies, and innovation
  – Science, research, and measurement

• Funds allocated to each agency in 1st year
  – ODNR: $43 million
  – ODA: $32 million
  – Ohio EPA: $8 million

• November 13th meeting with Senator Dolan, Director Mary Mertz and ODNR/Ohio EPA representatives

• Community support needed to continue future funding

crwp.org
Member Service and Regional Service Highlights
2020 Invoices & Member Service Reports

• Invoices
  – Early January

• Member service reports
  – By the end of January
Thank you for your input!

Input Gathering Session
September 2019
Board of Directors Meeting

Your input helps us:
• Propose 2020 services to members
• Develop 2020 workplan
• Update watershed plans
• Site visits
  – 93 landowners assisted so far in 2019

• Code updates
  – Assisting multiple member and CLEB communities
    • Adoption assistance
    • Implementation assistance

• Plan review
  – To ensure natural resource protection is considered early in planning process
  – 11 plan reviews provided so far in 2019
Member and CLEB Service Highlights

• Phase II assistance available to CRWP members:
  – Provide advice on how to meet MS4 Permit and SWMP requirements
  – Recommend changes to improve programs
  – Provide summary of services to assist members with preparing annual reports to Ohio EPA

• CRWP can also provide quarterly inspections for industrial permit (fee for service)

• Anticipated timeframe for release of MS4 permit

• Contact Kristen Hebebrand to request Phase II Services
  khebebrand@crwp.org
  (440) 975-3870 ext. 1004
• Grant-writing assistance
  – 28 grant applications submitted year to date
  – Contact CRWP now for assistance with preparing applications in 2020!
  – Involve CRWP early in project planning as many projects span multiple years
• The Cleveland Foundation Lake-Geauga Fund
  – Chagrin River and Lakefront Trail Connection Plan in western Lake County ($60,000)
• ODNR NatureWorks
  – Auburn Township Community Park Pavilion ($30,145)
  – Eastlake Public Access and Green Stormwater Infrastructure at Erie Road Park ($19,292)
• WRLC Dominion Energy Watershed Mini Grant Program
  – Northeast Ohio Master Rain Gardener Program ($5,500)
Chagrin River & Lakefront Trail Connection Plan

- Chagrin River Park
- Erie Road Park, Eastlake
- Hach-Otis State Nature Preserve
- North Chagrin Reservation
- Penitentiary Glen
- Holden Arboretum
- North Chagrin Reservation
- Penitentiary Glen
- Holden Arboretum
## Chagrin River & Lakefront Trail Connection Plan

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Amount Requested</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleveland Foundation Lake-Geauga Fund</td>
<td>$60,000</td>
<td>Awarded to CRWP</td>
</tr>
<tr>
<td>Local Funding</td>
<td>$49,100</td>
<td>Committed</td>
</tr>
<tr>
<td>ODNR Coastal Management Assistance Grant</td>
<td>$100,000</td>
<td>To be submitted 12/13/2019 by the Lake County General Health District</td>
</tr>
<tr>
<td>NOACA Transportation for Livable Communities Initiative (TLCI)</td>
<td>$140,000</td>
<td>Pending, potential overlap with NOACA led regional studies</td>
</tr>
<tr>
<td>Communities &amp; Park Districts</td>
<td>Other Partners</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>---------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>• Cleveland Metroparks</td>
<td>• Chagrin River Watershed Partners</td>
<td></td>
</tr>
<tr>
<td>• Eastlake</td>
<td>• Cleveland Metroparks</td>
<td></td>
</tr>
<tr>
<td>• Kirtland</td>
<td>• Holden Forests &amp; Gardens</td>
<td></td>
</tr>
<tr>
<td>• Lakeline</td>
<td>• Lake County Board of Commissioners</td>
<td></td>
</tr>
<tr>
<td>• Lake Metroparks</td>
<td>• Lake County General Health District</td>
<td></td>
</tr>
<tr>
<td>• Mentor</td>
<td>• Lake County Planning &amp; Community Development</td>
<td></td>
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<tr>
<td>• Mentor on the Lake</td>
<td>• Lake County Port and Economic Development Authority</td>
<td></td>
</tr>
<tr>
<td>• Waite Hill</td>
<td>• Lake County Stormwater Management Department</td>
<td></td>
</tr>
<tr>
<td>• Wickliffe</td>
<td>• Lake County SWCD</td>
<td></td>
</tr>
<tr>
<td>• Willoughby</td>
<td>• LakeTran</td>
<td></td>
</tr>
<tr>
<td>• Willoughby Hills</td>
<td>• ODNR Scenic Rivers Program</td>
<td></td>
</tr>
<tr>
<td>• Willowick</td>
<td>• Port Authority of Eastlake Ohio</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Western Reserve Land Conservancy</td>
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</tbody>
</table>
• 12 plans to be completed by end of December
• Plans can be updated to include additional critical areas and projects
• Project partners
  • Lake SWCD
  • Cuyahoga SWCD
  • Lake County Planning and Community Development
  • Cuyahoga River Restoration
  • Others
• Funded through the ODNR Coastal Management Assistance Grant Program
  • $62,575 grant
  • 1:1 local match
Chagrin River, Grand River, Cuyahoga River, & Coastal Watershed Plans

Includes the following CRWP members: Auburn, Bainbridge, Cleveland Metroparks, Eastlake, Geauga Park District, Kirtland, Kirtland Hills, Lake County, Lake Metroparks, Mantua Township, Mentor, Munson, Newbury, Willoughby
Ohio EPA Section 319 Funding

- Project must be in an approved 9-element HUC-12 nonpoint source implementation strategy (NPS-IS)
- Deadline expected March 2020
  - 40% match
  - 3-year grants
  - Project awards typically $50,000 to $300,000
- Habitat assessment data needed:
  - QHEI for stream restoration
  - ORAM for wetland restoration
- Potential eligibility of stormwater management projects such as:
  - Large public rain gardens
  - Pocket wetland treatment trains
  - Retrofit parking lot with permeable pavement
  - Rainwater harvesting
ODNR NatureWorks

— Deadline is June 1, 2020
  • 25% match (up to 75% reimbursement)
  • 2-year projects
  • Acquisition, development, and rehabilitation of recreational areas

— Example development projects:
  • Swimming and water sports facilities
  • Boating facilities
  • Outdoor game courts & playgrounds
  • Recreational trails

— Application requires:
  • Purpose and need
  • Documentation of local funds
  • Operation and maintenance plan
  • Accessibility
  • Planning
  • Public participation

<table>
<thead>
<tr>
<th>County</th>
<th>Available Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake</td>
<td>$57,605</td>
</tr>
<tr>
<td>Geauga</td>
<td>$30,145</td>
</tr>
<tr>
<td>Cuyahoga</td>
<td>$281,236</td>
</tr>
<tr>
<td>Portage</td>
<td>$58,223</td>
</tr>
</tbody>
</table>

2019 County Allocations
Many grants require or prefer public input documentation specific to the project:

- City council / Township trustee meeting minutes
- Public survey on website
- Public meeting for park master plan
- Newspaper article inviting input
Water Resource Restoration Sponsorship Program (WRRSP)

- Deadline expected **August 2020**
- No match required
- Typically $15 million available each year
- Pre-nomination site visit required
- Highly competitive application
- **Restoration Projects:** wetland or stream to address identified sources of impairment
- **Protection Projects:** purchase of parcel(s) containing existing high-quality wetlands and/or streams and buffers
- More intensive habitat / biological surveys
- Two-year cycle
  1. Planning/design
  2. Implementation
Clean Ohio Fund

- Preserve natural areas or open space, especially along riparian corridors
- Restore landscapes that have been degraded or destroyed
- Enhance the quality of natural areas or open space

Upcoming Funding Opportunities

**District 1** (Cuyahoga): likely due October 2020

**District 7** (Lake, Geauga, Ashtabula, Portage): January 24, 2020
USFS GLRI

• Likely due **May or June 2020**
• Expected match required is 20% of total project cost (Can include in-kind such as site prep, maintenance, volunteer hrs)

<table>
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<tr>
<th>Program Area &amp; Limits of Requested Federal Share</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
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<tbody>
<tr>
<td>1. Forest Insect &amp; Disease Mitigation</td>
<td>$50,000</td>
<td>$200,000</td>
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<tr>
<td>2. Reduce Runoff from Degraded Sites through Green Infrastructure</td>
<td>$100,000</td>
<td>$350,000</td>
</tr>
<tr>
<td>3. Enhance Coastal Wetland Filtration</td>
<td>$100,000</td>
<td>$350,000</td>
</tr>
</tbody>
</table>
• Contracts with 10 private property owners to conduct streambank stabilization projects
  – Mannik Smith Group selected contractor
  – Construction anticipated winter 2020, plantings in spring
  – Projects in Aurora, Munson Township, Chagrin Falls Village, Kirtland, & Chardon Township

• Heavy use areas for horses
  – Construction complete at Chagrin Valley Farms (7200 square feet)
  – Plans completed by NRCS for private property in Aurora
• $194,278 grant matched by $104,000 from local landowners
• Cost-share of 50% (up to $100/linear foot)
• Project goal is to stabilize 2,000 linear feet of streambank
• Anticipate 5 to 9 cost-share contracts
• Focus: residential landowners
Eligible Subwatersheds

<table>
<thead>
<tr>
<th>HUC-12 Code(s)</th>
<th>HUC-12 Watershed Name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04110003 04 02</td>
<td>Griswold Creek-Chagrin River</td>
</tr>
<tr>
<td>04110003 04 01</td>
<td>East Branch-Chagrin River</td>
</tr>
<tr>
<td>04110003 03 04</td>
<td>Beaver Creek-Chagrin River</td>
</tr>
<tr>
<td>04110003 03 02</td>
<td>Headwaters Aurora Branch</td>
</tr>
</tbody>
</table>

Portions of the following CRWP member communities are eligible:

- Auburn Township
- Bainbridge Township
- Chagrin Falls Township
- Chagrin Falls Village
- Gates Mills Village
- Kirtland Hills Village
- Mantua Township
- Mayfield Village
- Newbury Township
- Orange Village
- Russell Township
- South Russell Village
- Waite Hill Village
- Chardon Township
- City of Aurora
- City of Chardon
- City of Kirtland
- City of Mayfield Heights
- City of Mentor
- City of Pepper Pike
- City of Solon
- City of Wickliffe
- City of Willoughby
- City of Willoughby Hills
- Munson Township
- Village of Bentleyville
- Village of Hunting Valley
- Village of Moreland Hills
- Village of Woodmere
NOWCorps Update
Kevin Saracino

• Helped Laura compile resources for Master Rain Gardener Program
• Attended site visits and drafted recommendations
• Assisted with organizing volunteer tree plantings
• Planning Chagrin River watershed festival
Madison Wisniewski

- Assisting Kristen with Great Lakes Commission cost-share program
- Helped Laura with Master Rain Gardener Program
- Attended site visits and drafted recommendations
- Will assess bioretention and permeable pavement at Gully Brook and Penitentiary Glen
- Planning Chagrin River watershed festival
Conquer Invasive Plants Without Toxic Pesticides
– August 8, 2019

Ohio Pollinator Habitat Initiative Symposium
– August 22, 2019
Conquer Invasive Plants Without Toxic Pesticides

- Provided an overview on common invasive species
- Types of invasive species control:
  - Biological (grazing animals or natural predators)
  - Cultural
  - Manual/Mechanical
  - Chemical
- Use other methods before chemical
- Combine methods to be more successful
- Sometimes chemical control is the best option

CRWP can provide assistance with invasive species management
• **Building a Better Monarch Waystation** – Adam Baker, University of Kentucky
  - Study of garden layout for monarch use
  - Small gardens help create a network of resources
  - Monarchs *are* using waystations

• How to improve?
  - Plant milkweed around the perimeter of the garden with nectar plants inside
    - This resulted in more caterpillars
    - “Nativars” had no real difference for study
  - Increased visitation at sites with a clear line of site running north - south

**CRWP can provide assistance with native landscaping**
• **ODOT: Roadside Pollinator Program** – Joel Hunt
  - Currently, .97 cents of every dollar spent goes to maintenance projects
  - Establishing pollinator habitat costs $400/ac
    - No maintenance after establishment
  - ODOT has agreed to 8% of acreage into conservation for 50 years

• How?
  - Native plantings
  - Reduced mowing in foreslope
  - Leaving Zones 3 and 4 natural

CRWP can provide assistance with pollinator habitat
Next Board Meetings

BOARD OF DIRECTORS
February 20, 2020
4:00 - 6:00 p.m.
Location to be determined

EXECUTIVE COMMITTEE
January 23, 2020
4:30 - 6:00 p.m.
St. Christopher’s Church
Gates Mills

www.crwp.org
THIS YEAR HAS BEEN A WONDERFUL ADVENTURE WITH YOU

HAPPY HOLIDAYS

FROM ALL OF US AT CHAGrin RIVER WATERSHED PARTNERS