2017 RPBCWD Annual Report Summary

Board Meeting – February 7th 2017
Chanhassen High School Reuse
Invasive plant management
Riley Creek Restoration
Scenic Heights Restoration

Featured project:
Scenic Heights School Forest Ecological Restoration
Explore our yard and discover sustainable practices you can take home to yours.

We Use Rainwater

Installing a rain barrel or cistern. Collecting and reusing rainwater reduces ground water use.

Planting turfgrass alternatives. Low mow and native grasses need less water. They also decrease pollution, like fertilizer, to local rivers, lakes, and wetlands.

Using native plants. These plants provide habitat for pollinators, birds, and other animals.

This project is made possible through financial support from the following partners:

Fire Station 2
Reuse & Conservation
## 2017 Permit summary

<table>
<thead>
<tr>
<th>Permit Type</th>
<th>Number</th>
<th>Total TSS (lbs)</th>
<th>Total TP (lbs)</th>
<th>Volume (cft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governmental</td>
<td>21</td>
<td>3,212</td>
<td>19.5</td>
<td>24,090</td>
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<tr>
<td>Private Development</td>
<td>16</td>
<td>20,426</td>
<td>65.7</td>
<td>98,697</td>
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<tr>
<td>Ex. Single Family</td>
<td>31</td>
<td></td>
<td></td>
<td>Not Computed</td>
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<tr>
<td>Withdrawn/Review in Progress</td>
<td>5</td>
<td></td>
<td></td>
<td>Not Computed</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>73</strong></td>
<td><strong>23,638</strong></td>
<td><strong>85.2</strong></td>
<td><strong>122,787</strong></td>
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2017 RPBCWD Monitoring Summary
2017 LAKE WATER QUALITY
2017 Creek Water Quality
Miscellaneous Projects/Monitoring
Lake Riley Alum Treatment

Epilimnetic Total Phosphorus

Hypolimnetic Total Phosphorus
Spent Lime Treatment System

- System Sealed Up

- 17 Samples Collected

- Variable Results (11 indicated reductions)

- Water was entering the sampling location?

- Sample in Ports
CRAS Update

• Reach 3 – Riley Creek
  - All scores improved except. R3E.
CRAS Update

- **Purgatory Creek – Lotus Ravines**
  - Most subreaches had slightly reduced scores.

- PT2B shifted from good to poor.
AQUATIC INVASIVE SPECIES MONITORING
General AIS Monitoring/Treatment
AIS Monitoring and Treatments
Key
- Monitored for adult zebra mussels
- Monitored for zooplankton
- Treated for invasive aquatic plants
  (EW = eurasian watermilfoil, CPW = curly-leaf pondweed, BN = brittle-nail)
- New Infestations

Note: All lakes were sampled for juvenile zebra mussels (veligers) and none were detected.
Eurasian Water Milfoil – Staring Lake

EWM Infested Areas on Staring Lake

EWM infested areas

7/28/2017

9/7/2017

Google Earth
Carp Monitoring Results
2017 RCL Carp Monitoring

- Carp Biomass (78 kg/h)
- Carp Biomass (0 kg/h)
- Carp Biomass (24 kg/h)
- Carp Biomass (57 kg/h)
- Carp Biomass (15 kg/h)
- Carp Biomass (404 kg/h)
  - 4 Surveys
  - No YOY
  - 52.2 BLG/Net
  - 243 Carp Removed

Fyke Net Surveys Conducted on All Lakes Yielded No YOY Carp
2016 PCL Carp Monitoring

- **Carp Biomass (69 kg/h)**
  - Removed 131 fish
  - Connected nearly all year.
  - No YOY

- **Large Number of Adults (245 kg/h)**
  - Removed 174 fish (includes barrier trap net)
  - 1.33 hrs of electrofishing

- **2 YOY Carp Captured in Fyke Nets**
  - Removed 174 fish (includes barrier trap net)
  - 1.33 hrs of electrofishing

- **Carp Biomass (62 kg/h)**
  - Exceeded threshold in 2016 - 141kg/h
  - Removed 40 fish
  - Tagged 12 fish

Overall, Very Poor Recruitment Year
2018 Next Steps – Common Carp

- Continue Monitoring PCL & LSPP
- Potential Open Water Seine
- Leave Barrier Closed in 2017
- Set trap net – backpack electrofishing
Questions
2017 Education & Outreach
Improving water quality by leveraging the power of an engaged community to effect meaningful change.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Engagement type(s)</th>
<th>Audience</th>
<th>Reach</th>
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</thead>
<tbody>
<tr>
<td>Volunteer Program</td>
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<td>Local Leaders Program</td>
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<td>Youth Outreach Program</td>
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<tr>
<td>Continuing Education Program</td>
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<td>Communications Program</td>
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Citizen advisory committee
Advising the watershed district as representatives of citizen interests and promoting clean water action in our community.

In 2017, the watershed district’s Citizen Advisory Committee contributed to the district’s work through:

- Review of 8 members of projects & programs
- Action projects
Cost share program
Funding and support for community projects that protect, improve, and increase awareness of water resources.

In 2017, the watershed district’s cost-share program funded seven community projects to protect and improve water resources:

- 7 projects
- 14,250 ft² of shoreline restored
Volunteer program
Fostering stewardship and growing capacity through fun, impactful volunteer opportunities.

In 2017, the watershed district’s volunteer program engaged community members through three different opportunities and four events:

- Adopt a Dock
- Master Water Stewards
- Service Learners

40 volunteers
345 hours volunteered
7 programs & events
Local leaders program
Engaging and supporting appointed, elected, and informal leaders in the shared work of protecting clean water.

In 2017, the watershed district’s local leader program engaged community members through a watershed tour, workshops, and presentations:

59 tour attendees
7 planning activities

Community resiliency workshops
Watershed tour
Youth outreach program
Creating meaningful childhood experiences connected to water resources to inspire the next generation of water stewards.

Earth day mini grants
Staring nature center partnership
School & community events

In 2017, the watershed district’s youth outreach program engaged children and their families by:

1170 individuals reached
3 mini-grant projects
14 Activities & events
Continuing education program
Educational opportunities for community members to grow their water resource and best practices knowledge.

Project WET
Turf & Winter Maintenance Training
Other topics

In 2017, the watershed district’s continuing education program served the community through:

178 participants
7 Trainings & events
Communications program

Engaging the public through diverse communication methods from event tabling to social media and publications.

In 2017, the watershed district’s communications program engaged the community and raised awareness through:

- **1000 fact sheets**
- **12 events**
- **6 newsletters**
- **2000 annual communications**