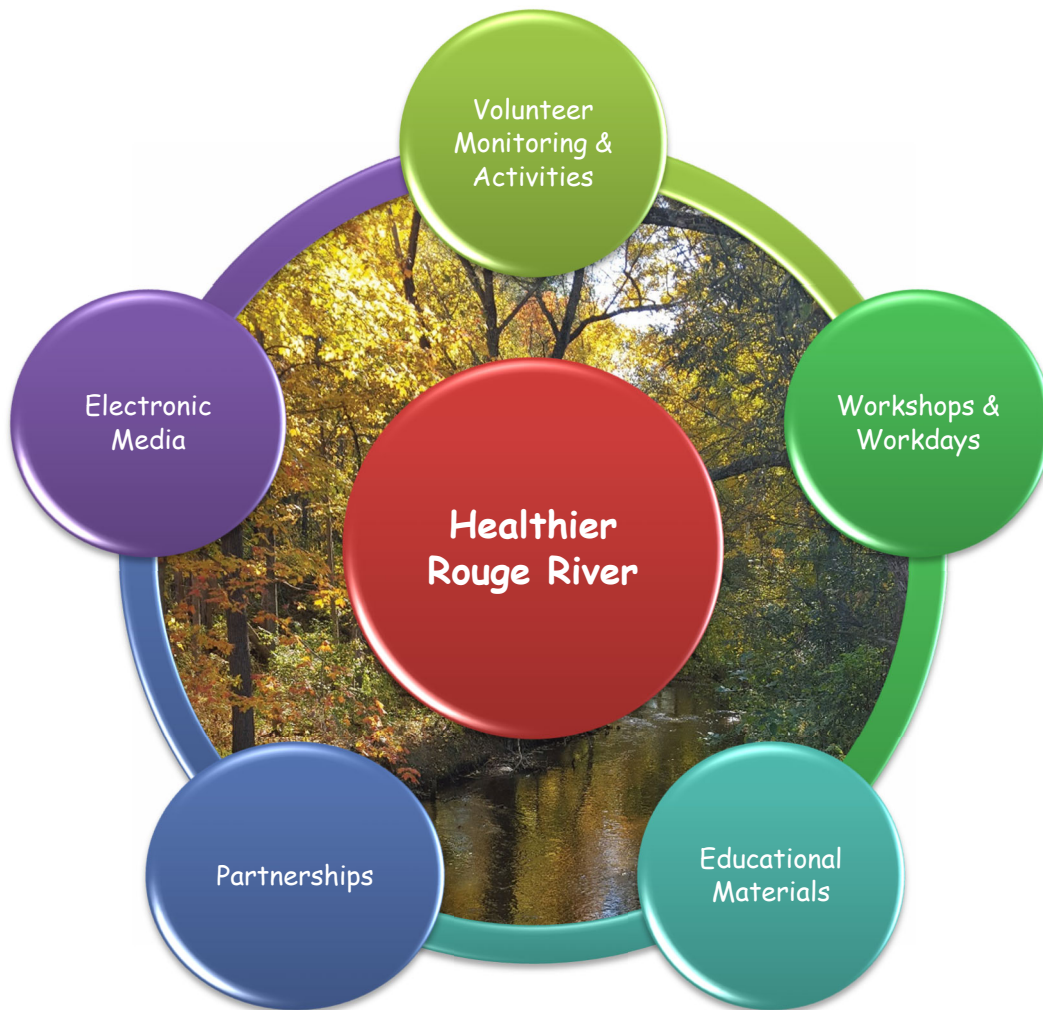


# ROUGE RIVER COLLABORATIVE PUBLIC EDUCATION PROGRAM (PEP) 2018-2019 PROGRESS REPORT



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## A. Purpose

This report summarizes the activities undertaken to implement the Rouge River Collaborative Public Education Program (Plan) which was approved by the Michigan Department of Environment, Great Lakes and Energy (EGLE) in March 2017. The Plan is part of the municipal separate storm sewer system (MS4) permits for several communities in the Rouge River watershed. The report includes activities implemented by or on behalf of members of the Alliance of Rouge Communities (ARC) from April 2017 through December 2019. The permittees participating in the Plan during the reporting period are listed below. Note that Schoolcraft College and Wayne County Airport Authority are currently being added to the Plan. It is anticipated that these permittees will be included in subsequent progress reports.

### Participating Permittees

Beverly Hills, Village of	Northville, City of
Bingham Farms, Village of	Northville Township
Birmingham, City of	Novi, City of
Bloomfield Hills, City of	Oak Park, City of
Bloomfield Township	Plymouth, City of
Canton Township	Plymouth Township
Dearborn Heights, City of	Redford Township
Farmington, City of	Southfield, City of
Farmington Hills, City of	Troy, City of
Franklin, Village of	Walled Lake, City of
Garden City, City of	Wayne, City of
Inkster, City of	Westland, City of
Lathrup Village, City of	West Bloomfield Township
Livonia, City of	
Melvindale, City of	Henry Ford College
Oakland County*	Wayne County*

*\*Participating in the Plan, but their complete efforts will be reported in their individual progress reports.*

## B. Action Strategy Status

The status of each action strategy includes a description of each activity, progress made during the reporting period and status of each metric.

### PEP #1: Distribute pollution prevention literature on various topics through brochures, educational materials, and other media

#### Description

ARC members will be provided copies of materials to be displayed at their facilities or used at community events or will be provided electronic material to use on their community website. With ARC oversight, Wayne County and ARC staff will facilitate the selection, procurement and distribution of various watershed restoration and pollution prevention public education materials to support ARC member public education permit compliance. Other or additional copies of some handout materials are available at cost through the Wayne County Publication Clearinghouse. Materials will also be available to view on the ARC's website. The ARC will also promote its message using electronic media outlets which could include cable TV, social media and billboards.

### Goal

- Create at least 2 brochures/materials during permit cycle including one to educate commercial/industrial/educational & institutional entities
- Develop at least 24 Facebook posts
- Materials available at ARC member facilities

### Assessment

METRIC	STATUS
Number of materials distributed/topic/location/event name	<ul style="list-style-type: none"><li>• 2018 – more than 19,490 materials distributed</li><li>• 2019 – more than 11,230 materials distributed</li><li>• See Appendix A – Material Distribution Report for detailed breakdown</li></ul>
Number of posts/views on ARC Facebook	<ul style="list-style-type: none"><li>• 2018 – 25 created posts</li><li>• 2019 – 51 created posts</li><li>• See Appendix B – Electronic Media Report for detailed breakdown</li></ul>
Viewer numbers from electronic (billboard) media when used	One Water Campaign reached more than 25 million people during spring/summer of 2019. Including: <ul style="list-style-type: none"><li>• 14 million impressions via outdoor advertising on billboards and buses</li><li>• 1.3 million impressions on 120 broadcast TV spots</li><li>• 491,000 video views on social media</li><li>• More than 2,300 shares and retweets</li><li>• 3 million impressions on 115 radio spots</li></ul>

### Comments

The ARC has plans for creating a new brochure in 2020 and another during the remainder of the permit cycle. One of these will focus on educating commercial/industrial/educational & institutional entities.

### **PEP #2: Coordinate and distribute community articles and ad graphics on pollution prevention and watershed restoration and stewardship**

#### Description

With ARC oversight, ARC staff will facilitate the selection (based on an annual theme) and distribution of various articles and/or ad graphics that support watershed restoration and pollution prevention public education themes. Other existing articles or ad graphics will be made available upon request by ARC members. Articles and ad graphics will also be posted on the ARC's website and through social media. ARC members will repost articles and ad graphics to their own social media outlets.

### Goal

- Coordinate/distribute existing articles/ad graphics
- Develop 1 new article/1 new ad graphic per year (total of 5 during permit cycle)
- Increase in ARC website traffic and Facebook views

## **Assessment**

<b>METRIC</b>	<b>STATUS</b>
List of articles/ad graphics with title, topic and date	See Appendix C – Articles/Ad Graphic Report for copies of: <ul style="list-style-type: none"><li>• Brine Instead of Rock Salt to Protect Water Quality! (article)</li><li>• Home Recipe for Brine (graphic)</li><li>• What Is A Watershed &amp; What Does It Have to Do with Me? (article)</li><li>• Watershed you live in (graphic)</li></ul>
List of articles/ad graphics promoted on ARC website/Facebook	<ul style="list-style-type: none"><li>• Brine Instead of Rock Salt to Protect Water Quality! (article)</li><li>• Home Recipe for Brine (graphic)</li><li>• What Is A Watershed &amp; What Does It Have to Do with Me? (article)</li><li>• Watershed you live in (graphic)</li></ul>
Number of views on ARC website/Facebook	See Appendix B – Electronic Media Report

## **Comment**

In addition to developing new articles/ad graphics, the ARC website and Facebook page has promoted and reposted various articles by other organizations that support watershed restoration and pollution prevention themes.

## **PEP #3: Provide static displays and posters on pollution prevention and watershed restoration and stewardship**

### **Description**

Wayne County has various pollution prevention and/or watershed awareness displays available for loan to ARC members. The ARC plans to update existing and/or create new static displays during the permit cycle. The ARC may create new static displays using SEMCOGs “What You Can Do . . .” series or other topic that will be made available for loan to ARC member communities to use at their facilities or community events in each of the subwatersheds. ARC staff may also oversee displays at community events. ARC staff may create new displays if a particular topic is deemed necessary. The ARC is also creating seasonal posters covering a variety of the PEP Topics which will be provided to ARC members for display in their facilities.

### **Goal**

- Distribute 4 seasonal posters, post and rotate seasonally at least 3 out of 5 years during permit cycle.
- Update/create at least 3 static displays and use at 3-4 ARC member community events per year during the permit cycle with a minimum of 2 events in each of the 7 subwatersheds during the permit cycle.



## Assessment

METRIC	STATUS
Report of static display/date/location and title of events where displays were used ( <i>4 events per year, 2 events in each subwatershed during permit cycle</i> )	<ul style="list-style-type: none"><li>• 2018 – banner at 24 events</li><li>• 2019 – banner at 24 events</li><li>• Banners in each subwatershed at least once except for Lower 1</li><li>• See Appendix D – Poster/Banner Report</li></ul>
Number of posters distributed and location ( <i>rotate 3 out of 5 yrs. of permit cycle</i> )	<ul style="list-style-type: none"><li>• 486 copies of seasonal posters were distributed at community events during the reporting period.</li><li>• 23 of the 29 permittees displayed posters in 2 of the reporting years and 3 displayed them in 1 of the years in their buildings</li><li>• See Appendix D – Poster/Banner Report</li></ul>
Number of static displays created annually ( <i>3 over permit cycle</i> )	1, 3-panel display created “You can Protect Water Quality in the Rouge River”

## Comments

The ARC has plans to create a new static display in 2020 and one other during the remainder of the permit cycle.

**PEP #4: Promote environmental hotlines to educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4**

## Description

The environmental hotline numbers and collection/disposal information will be advertised by ARC members through available outlets such as the ARC website, county and local community websites, social media, through hotline brochure distribution, as well as being displayed on other topical brochures, distributed at display events and training sessions, electronic media, and other outlets.

## Goal

- Distribute materials annually with hotline referenced
- Promote on ARC and ARC member community website and Facebook

## Assessment

METRIC	STATUS
Number of materials distributed annually	<ul style="list-style-type: none"><li>• 2018 – 310 Waterfront Wisdom brochures distributed with hotline referenced</li><li>• 2019 – 421 Waterfront Wisdom brochures distributed with hotline referenced</li></ul>
Number of views on ARC website and Facebook	See Appendix B – Electronic Media Report

## Comments

In 2019, the ARC designed the Watershed Wisdom for Homeowners brochure with distribution planned for 2020. Brochures include the environmental hotlines and proper household hazardous waste disposal.

**PEP #5: Distribution of “homeowner” materials to promote the importance of pollution prevention and watershed restoration and stewardship**

**Description**

Homeowner educational materials will be available to ARC members and the public through the ARC website and the ARC’s Facebook. A homeowner educational brochure will be distributed and made available to ARC members to use as part of their welcome to the community new resident packets.

**Goal**

- Develop homeowner materials within 1 year of permit approval

**Assessment**

METRIC	STATUS
Completion of brochure	Completed in 2019 “Watershed Wisdom for Homeowners-Healthy Habits for Clean Water”
Number of materials distributed annually	7,000 copies printed in 2019 and distribution started in January 2020
Number of materials distributed to new homeowners by ARC member communities	100 copies were distributed to each community for use in January 2020
Number of views on ARC website and Facebook	See Appendix B – Electronic Media Report

**Comments**

The ARC will be surveying Rouge River Watershed realtors in early 2020 and will be providing copies of the Watershed Wisdom for Homeowners brochure for them to distribute to new homeowners. The ARC will also be developing a strategy to distribute the brochure to Rouge River Watershed homeowner associations in 2020.

**PEP #6: Develop and promote educational workshops and presentations**

**Description**

With ARC oversight, Friends of the Rouge (FOTR) and ARC staff will determine the topics, coordinate content, and present 6 workshops during the permit cycle. Workshop topics will vary based on annual education themes and/or needs as determined by the ARC. Workshops and presentations to business associations, chamber of commerce, business organizations, and focus groups could also be included. ARC members may host and participate in these workshops and presentations.

**Goal**

- Conduct six workshops/presentations during the permit cycle, 1 or more per year and at least 1 per subwatershed.
- Each event will average at least 15 participants.
- ARC member communities will promote and/or host events
- One or more will target businesses

## **Assessment**

METRIC	STATUS
Number and topics of materials handed out and presented	<ul style="list-style-type: none"><li>• ARC conducted 1 Septic System Webinar on 11/4/19 with 19 participants</li><li>• Facebook/website link to recorded webinar reaching 552 people and growing</li><li>• Topics included septic system maintenance, promoted pollution hotlines and general Rouge River stewardship activities</li><li>• Collaborative activities began upon approval of the Collaborative PEP in March 2017. In 2017, the ARC hosted 2 Septic System Maintenance workshops and developed and hosted 2 Stewards of the Rouge River workshops in partnership with FOTR.</li></ul>
Workshop sign-in sheets with number of attendees and survey results	See Appendix E – Workshop/Volunteer Report
Report of ARC member communities promoting/hosting events	See Appendix E – Workshop/Volunteer Report and Appendix B – Electronic Media Report for additional activities by FOTR that were hosted or promoted by ARC communities

### **PEP #7: Promote and support volunteer activities**

#### **Description**

The ARC members, Wayne, Oakland and Washtenaw County, FOTR and other partners will promote and implement Rouge River awareness and restoration projects such as Rouge Rescue, River Day, workdays, water festivals and green schools programs through websites, social media, distribution of materials and presentations. In addition, four (4) workdays may be organized and coordinated to implement watershed restoration stewardship activities at new or existing green infrastructure project sites during the permit cycle. ARC members are encouraged to promote FOTR's Rouge Rescue and workdays that are held throughout the watershed.

#### **Goal**

- Coordinate 4 workdays during permit cycle
- ARC member communities will promote, participate or host volunteer and other watershed events

## **Assessment**

METRIC	STATUS
Workday sign-in sheets documenting volunteer attendance	FOTR conducted 1 Workday on 8/30/18 at the Newburgh Pointe Grown Zone with 17 participants (See Appendix E – Workshop/Volunteer Report)
Workday survey results	No surveys were conducted
Report of ARC member communities that hosted, participated or promoted events	27 events were hosted/promoted by ARC member communities during 2017-2019. (See Appendix E – Workshop/Volunteer Report)
Number of views on ARC website and Facebook annually	See Appendix B – Electronic Media Report

## **PEP #8: Promotion of and support for volunteer monitoring activities within the Rouge River Watershed**

### **Description**

The ARC and Oakland and Washtenaw County will promote and support Wayne County and the Friends of the Rouge to implement a watershed-wide volunteer monitoring program through websites, social media, distribution of materials, and presentations. ARC members will actively promote public and business participation and lend support to FOTR as appropriate. ARC members will host monitoring activities at their facilities when appropriate.

### **Goal**

- Conduct 1 winter stonefly search, 1 bug hunt and 2 other volunteer monitoring training exercises annually
- ARC member communities will promote, participate or host volunteer events

### **Assessment**

METRIC	STATUS
Monitoring events	Friends of the Rouge conducted monitoring training activities, 2 stonefly searches, 1 spring bug hunt, 2 fall bug hunts, frog and toad surveys, and fish monitoring from 2018-2019 (See Appendix E – Workshop/Volunteer Report)
Number of views on ARC website and Facebook	See Appendix B – Electronic Media Report
Sign-in sheets showing number of volunteers	See Appendix E – Workshop/Volunteer Report
Survey results	
Report of ARC member communities that hosted, participated or promoted events	

## **PEP #9: Rouge River Watershed signage**

### **Description**

Watershed signage will continue to be made available to ARC members including River/Road Crossing signs, Don't Feed the Geese/Waterfowl signs, and Grow Zone signs. ARC Staff will create one new sign and/or sticker for community use during the permit cycle regarding disposal practices of animal waste or other pollution prevention topic. During 2017 and 2018 ARC Staff, with assistance from Wayne County, Oakland County and ARC member communities, will survey the watershed to 1) document current signage to determine if maintenance is needed, and 2) document where future signage placement would be beneficial. This activity helps to educate and increase public awareness about the interconnectedness of the watershed and the storm sewer system.

### **Goal**

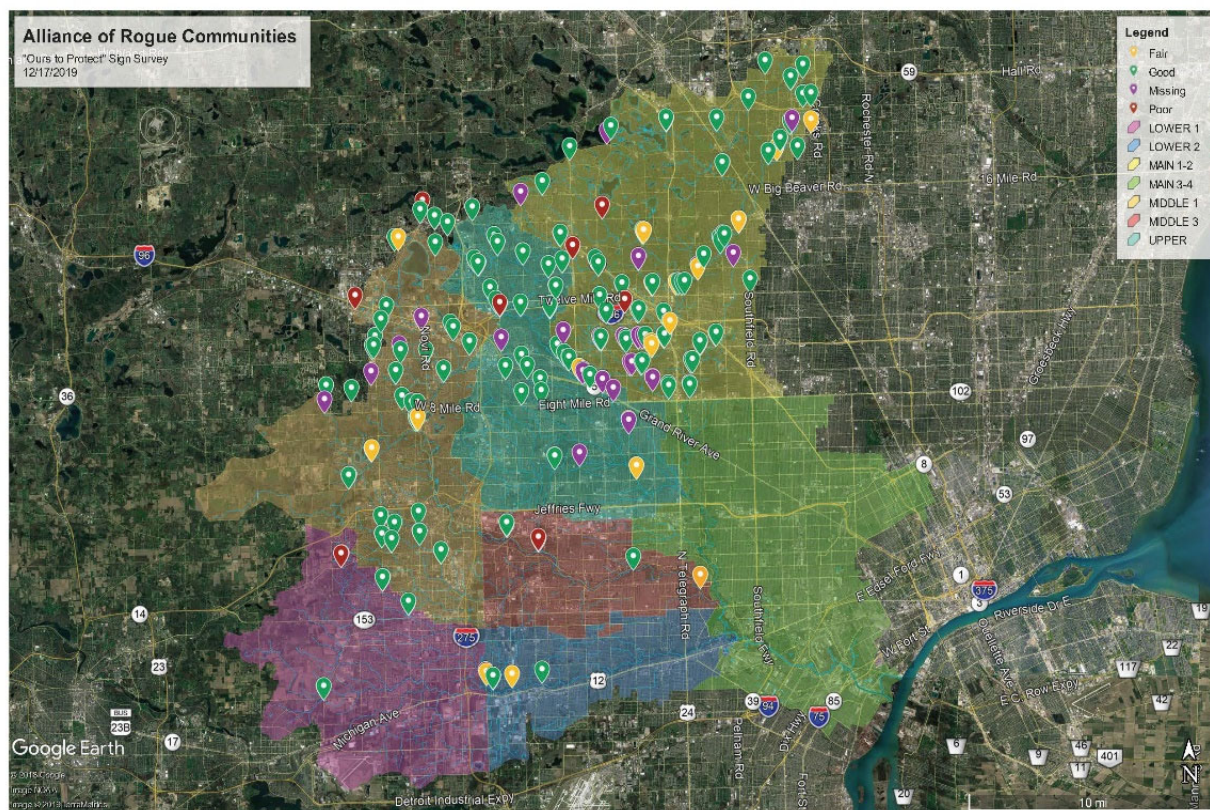
- Develop at least 1 new sign or sticker during permit cycle
- During first 2 years survey watershed signage for maintenance and future sign needs
- Create map during permit cycle documenting survey results
- Implement maintenance and/or new signage at high-priority locations during the first permit cycle

## Assessment

METRIC	STATUS
Complete at least 1 new sign/sticker or other item during permit cycle	Planned for 2021
Number of signs/stickers or other items distributed annually	Planned for 2021
Survey results, map and recommendations during permit cycle	50% completed in 2019, remained planned for 2020
Number of signs maintained and new signage installed during permit cycle	Planned for 2022

## Comments

The ARC surveyed half of the Rouge River Watershed documenting the location and condition of signage in 2019 and will survey the rest of the watershed in 2020. Figure 1 shows the current status of the survey which will continue through 2020.



**Figure 1: Status of Ours to Project sign survey**

**Appendix A**  
**Material Distribution Report**



APPENDIX A - MATERIAL DISTRIBUTION REPORT

Community	Name/Location of Event	Event Date	PET BAGS	ALL SEASONS POSTERS				MANUALS					GOODIES	
			Pet Bags	Spring Poster	Summer Poster	Fall Poster	Winter Poster	Detention Pond	Member Brochures	Waterfront Wisdom	Homeowner Septic System	FOG Brochure	Clips	Kneeling Pad
Walled Lake	Member Request	2018		1	1	1	2			25				
Farmington Hills	Member Request	2018					1							
Farmington	Member Request	2018						10		10				
West Bloomfield Township	Member Request	2018						25	25	25	25			
Beverly Hills	Member Request	2018									36	36		
Crandbrook Inst. Of Science	Spring into Science (BES)	4/5/2018	50		22			20		50		50	100	75
Lathrup Village	Member Request	2018										100		
Farmington Hills	Earth Day Event	4/22/2018	50	15	15			25		50		100	50	55
Canton	Member Request	2018	100	2					20				100	
Novi	Member Request	2018		10	10	10	10	100	10	100			100	
Dearborn Heights	Member Request	7/8/2018	100											
Southfield	60th Anniversary Celebration	4/29/2018												90
Washtenaw County	Member Request	2018						30						
Dearborn Heights	Member Request	2018	150		5								50	
Bloomfield Township	Member Request	2018	200										200	
Bloomfield Township	Member Request (BES)	2018												
Northville	Member Request	2018	250											
Plymouth Township	Member Request	2018	200											
Novi	Spring Palooza	2018												100
Henry Ford College	Member Request	2018		5	5	5	5							
Westland	Member Request	2018	100	4	4								100	
WCAA	Member Request	2018			25	25	25							
Plymouth	Member Request	2018	200	1	1	1	1							
Beverly Hills	Member Request	2018	50	1	1	1	1							
Farmington Hills	Member Request	2018	500					100		50			50	
West Bloomfield Township	Member Request	2018	50								50	100	100	
Wayne County DPS	Member Request	2018										300		
Farmington Hills	City-wide Open House	9/30/2018	300											
Bloomfield Township	Open House (BES)	10/13/2018										200	200	100
Westland	Rouge Rescue Volunteer Event	4/14/2018										50		
Westland	Earth Day	4/20/2018										100		
Canton	Earth Day	4/22/2018										100		
Farmington	Earth Day/Farmers Market	5/19/2018										100		
Farmington	Farmers Market	5/18/2018	100											50
Walled Lake	Farmers Market	5/2/2018										100		
Washtenaw County Roads	Open House	5/3/2018										100	100	
Southfield	Fishing Derby	5/5/2018										100	100	
West Bloomfield Township	Food Truck Tuesdays	5/8/2018										100	100	
Canton	Farmers Market	5/13/2018										100	100	
Canton	River Day	5/19/2018										100	100	
Troy	Farmers Market	6/1/2018										100	100	
Southfield	Beautifcation Council of SE MI	6/21/2018										75	75	
Dearborn Heights		7/8/2018										100	100	
Northville	Member Request	2018												
General Public Giveaways		2018	300											
Bloomfield Township	Home Owners Meeting	10/22/2018	200											
Farmington Hills	Member Request	11/19/2018	500										100	
Plymouth Township	Member Request	12/6/2018	800											
Commerce Township														
TOTALS 2018			4200	39	89	43	45	310	55	310	111	2111	1925	470



APPENDIX A - MATERIAL DISTRIBUTION REPORT

				HANDOUTS/TIPCARDS/BANNERS											
Community	Name/Location of Event	Event Date	Keychains	Bookmark	ARC Fact Flyer	Value of Trees	Black Eyed Susan Card	Banners	SE MI Partner DVD	Working for CW DVD	Pet Tip Card	Storm Drains Tip Card	Fertilize Tip Card	Chemical Tip Card	Car Care Tip Card
Walled Lake	Member Request	2018		50											
Farmington Hills	Member Request	2018													
Farmington	Member Request	2018			10	10			1	1					
West Bloomfield Township	Member Request	2018			25	25									
Beverly Hills	Member Request	2018												36	
Crandbrook Inst. Of Science	Spring into Science (BES)	4/5/2018	50	100	100	30	100	1							
Lathrup Village	Member Request	2018													
Farmington Hills	Earth Day Event	4/22/2018	50	100	50	50		1							
Canton	Member Request	2018				100									
Novi	Member Request	2018		100	100	100			1	1					100
Dearborn Heights	Member Request	7/8/2018													
Southfield	60th Anniversary Celebration	4/29/2018													
Washtenaw County	Member Request	2018													
Dearborn Heights	Member Request	2018									150				
Bloomfield Township	Member Request	2018													
Bloomfield Township	Member Request (BES)	2018					100		1						
Northville	Member Request	2018													
Plymouth Township	Member Request	2018				50									
Novi	Spring Palooza	2018						1							
Henry Ford College	Member Request	2018				20									
Westland	Member Request	2018			25	50					25	25	25	25	25
WCAA	Member Request	2018			25								25		
Plymouth	Member Request	2018													
Beverly Hills	Member Request	2018										50	50		
Farmington Hills	Member Request	2018				100									
West Bloomfield Township	Member Request	2018		100	100	100							100	100	100
Wayne County DPS	Member Request	2018													
Farmington Hills	City-wide Open House	9/30/2018													
Bloomfield Township	Open House (BES)	10/13/2018		200	200		200								
Westland	Rouge Rescue Volunteer Event	4/14/2018		50	50	50	50								
Westland	Earth Day	4/20/2018		100	100	100	100								
Canton	Earth Day	4/22/2018		100	100	100	100								
Farmington	Earth Day/Farmers Market	5/19/2018		100	100	100	100								
Farmington	Farmers Market	5/18/2018													
Walled Lake	Farmers Market	5/2/2018		100	100	100	100								
Washtenaw County Roads	Open House	5/3/2018		100	100	100	100								
Southfield	Fishing Derby	5/5/2018		100	100	100	100								
West Bloomfield Township	Food Truck Tuesdays	5/8/2018		100	100	100	100								
Canton	Farmers Market	5/13/2018		100	100	100	100								
Canton	River Day	5/19/2018		100	100	100	100								
Troy	Farmers Market	6/1/2018		100	100	100	100								
Southfield	Beautifcation Council of SE MI	6/21/2018		75	75	75	75								
Dearborn Heights		7/8/2018		100	100	100	100								
Northville	Member Request	2018					100								
General Public Giveaways		2018													
Bloomfield Township	Home Owners Meeting	10/22/2018													
Farmington Hills	Member Request	11/19/2018													
Plymouth Township	Member Request	12/6/2018													
Commerce Township															
TOTALS 2018			100	1875	1860	1860	1725	3	3	2	175	75	200	161	225

APPENDIX A - MATERIAL DISTRIBUTION REPORT

Community	Name/Location of Event	Event Date	Pet Bags	Spring Poster	Summer Poster	Fall Poster	Winter Poster	Detention Pond	Member Brochures	Waterfront Wisdom	Homeowner Septic System	FOG Brochure	Clips
Commerce Township	Member Request		50	1	1	1	1	20		20	50	20	200
West Bloomfield	Member Request		50	2	2	2	2			25	50	50	75
Farmington Hills DPS	Member Request		500										
Westland	Member Request		100	2	2	2	2	25					100
Beverly Hills	Member Request		200										100
Bloomfield Township	Member Request		200	3	3	3	3						
Romulus	Member Request		75	1	1	1	1		5				75
Inkster	Member Request			5	5	5	5		5			50	
Walled Lake	Member Request							5		75			
Southfield	Member Request		50										100
Northville Township	Member Request		100										
Cranbrook Institute of Science	Spring into Science	4/2/2019	100					100		100	100	100	100
Farmington DPW	Earth Day Event	4/16/2019	300										
Farmington Hills	Earth Day Event	4/22/2019	50	24	24	24	24	75		100	100	100	180
Dearborn Heights	Vaccination Clinic	June	250	5	5								
Henry Ford College	MI Assoc of County Drain Comm.	5/23/2019	50	15	15	15	15	50		50		50	50
Wayne County	WC Parks Fishing Derby & 100th Year Fun Fest	6/5/19 & 7/13/19	100										100
WHC Council		6/26/2019	30					1		1	1	1	30
Beverly Hills	Member Request		200										
Bingham Farms	Member Request		70										
Farmington DPW	Downtown Farmington		200										
Farmington Hills DPS	Member Request		300										
Wixom	Town Hall Meeting							25					
Wayne								100				100	100
Plymouth Township	Member Request							12					
Wayne	Member Request		200										
Bingham Farms	Member Request		100										
Farmington Hills	Open House	9/13/2019	300										300
ARC/ECTHFC	GLR Event	10/18/2019	100	12	12	12	12	50		50	50	50	200
Farmington Hills	Member Request		100										
TOTALS 2019			3775	70	70	65	65	463	10	421	351	521	1710

APPENDIX A - MATERIAL DISTRIBUTION REPORT

Community	Name/Location of Event	Event Date	Kneeling Pad	Keychains	Bookmark	ARC Fact Flyer	Value of Trees	Black Eyed Susan Card	Banners	SE MI Partner DVD	Working for CW DVD	Pet Tip Card	Storm Drains Tip Card	Fertilize Tip Card
Commerce Township	Member Request					20	20			1	1			
West Bloomfield	Member Request				50	50	50							100
Farmington Hills DPS	Member Request													
Westland	Member Request													
Beverly Hills	Member Request				100		100						100	
Bloomfield Township	Member Request				200									
Romulus	Member Request					50	50							50
Inkster	Member Request					50				2	2		50	50
Walled Lake	Member Request				100	75								
Southfield	Member Request		50											
Northville Township	Member Request													
Cranbrook Institute of Science	Spring into Science	4/2/2019	100	100	100	100	100	100	1					
Farmington DPW	Earth Day Event	4/16/2019												
Farmington Hills	Earth Day Event	4/22/2019	75		100	100	100							
Dearborn Heights	Vaccination Clinic	June												
Henry Ford College	MI Assoc of County Drain Comm.	5/23/2019			50	50	50		1					
Wayne County	WC Parks Fishing Derby & 100th Year Fun Fest	6/5/19 & 7/13/19												
WHC Council		6/26/2019			30	1	1							
Beverly Hills	Member Request													
Bingham Farms	Member Request													
Farmington DPW	Downtown Farmington													
Farmington Hills DPS	Member Request													
Wixom	Town Hall Meeting													
Wayne					100		100							100
Plymouth Township	Member Request													
Wayne	Member Request													
Bingham Farms	Member Request													
Farmington Hills	Open House	9/13/2019	40											
ARC/ECTHFC	GLR Event	10/18/2019			250	100	100	100	1					
Farmington Hills	Member Request													
TOTALS 2019			265	100	1080	596	671	200	3	3	3	0	150	300

APPENDIX A - MATERIAL DISTRIBUTION REPORT

Community	Name/Location of Event	Event Date	Chemical Tip Card	Car Care Tip Card
Commerce Township	Member Request			20
West Bloomfield	Member Request			
Farmington Hills DPS	Member Request			
Westland	Member Request		25	
Beverly Hills	Member Request		100	
Bloomfield Township	Member Request			
Romulus	Member Request		50	50
Inkster	Member Request		50	50
Walled Lake	Member Request			
Southfield	Member Request			
Northville Township	Member Request			
Cranbrook Institute of Science	Spring into Science	4/2/2019		
Farmington DPW	Earth Day Event	4/16/2019		
Farmington Hills	Earth Day Event	4/22/2019		
Dearborn Heights	Vaccination Clinic	June		
Henry Ford College	MI Assoc of County Drain Comm.	5/23/2019		
Wayne County	WC Parks Fishing Derby & 100th Year Fun Fest	6/5/19 & 7/13/19		
WHC Council		6/26/2019		
Beverly Hills	Member Request			
Bingham Farms	Member Request			
Farmington DPW	Downtown Farmington			
Farmington Hills DPS	Member Request			
Wixom	Town Hall Meeting			
Wayne				
Plymouth Township	Member Request			
Wayne	Member Request			
Bingham Farms	Member Request			
Farmington Hills	Open House	9/13/2019		
ARC/ECTHFC	GLR Event	10/18/2019		
Farmington Hills	Member Request			
			225	120

**Appendix B**  
**Electronic Media Report**

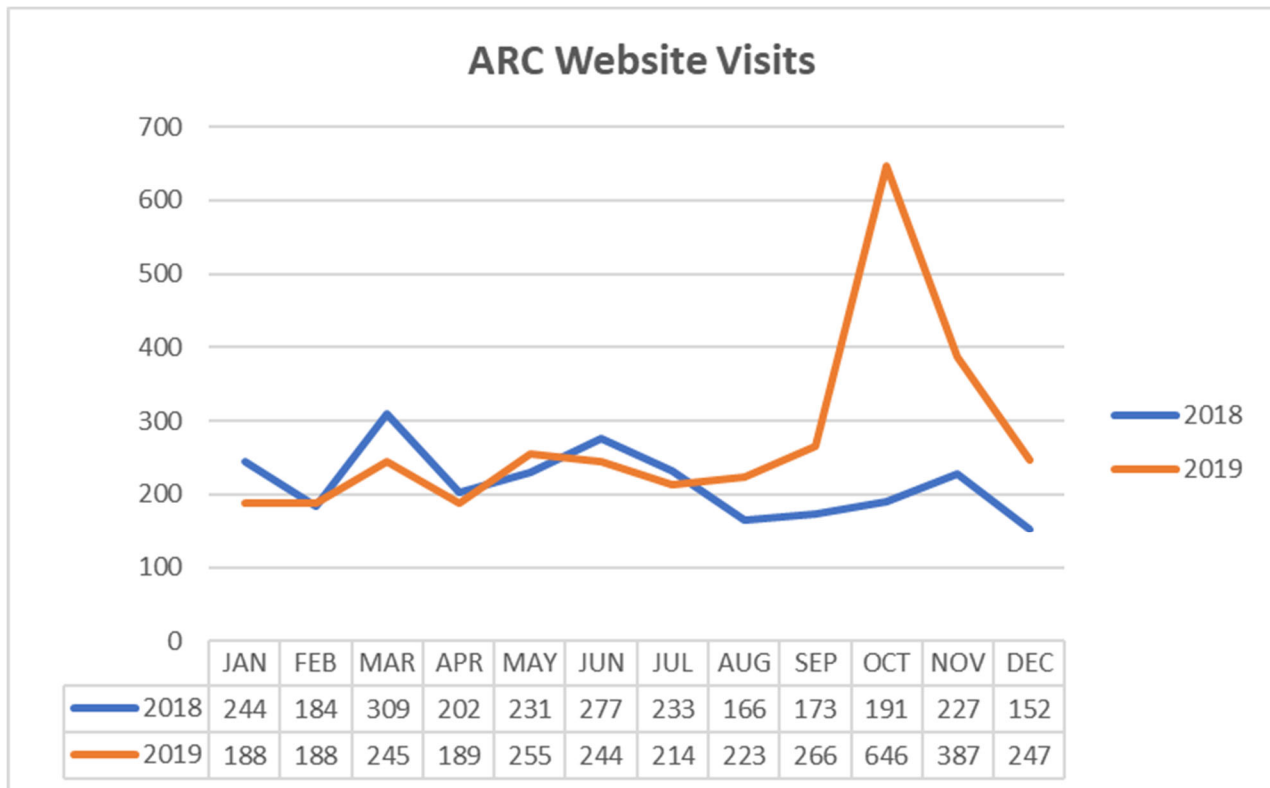
# ARC ELECTRONIC MEDIA REPORT

## ARC WEBSITE VISITORS 2018

Page impressions	6317
Pageviews / Visit	2.44
Visitors	2589
Average Duration per Visit	147
Bounce Visits	1453
New Visitors	1795

## ARC WEBSITE VISITORS 2019

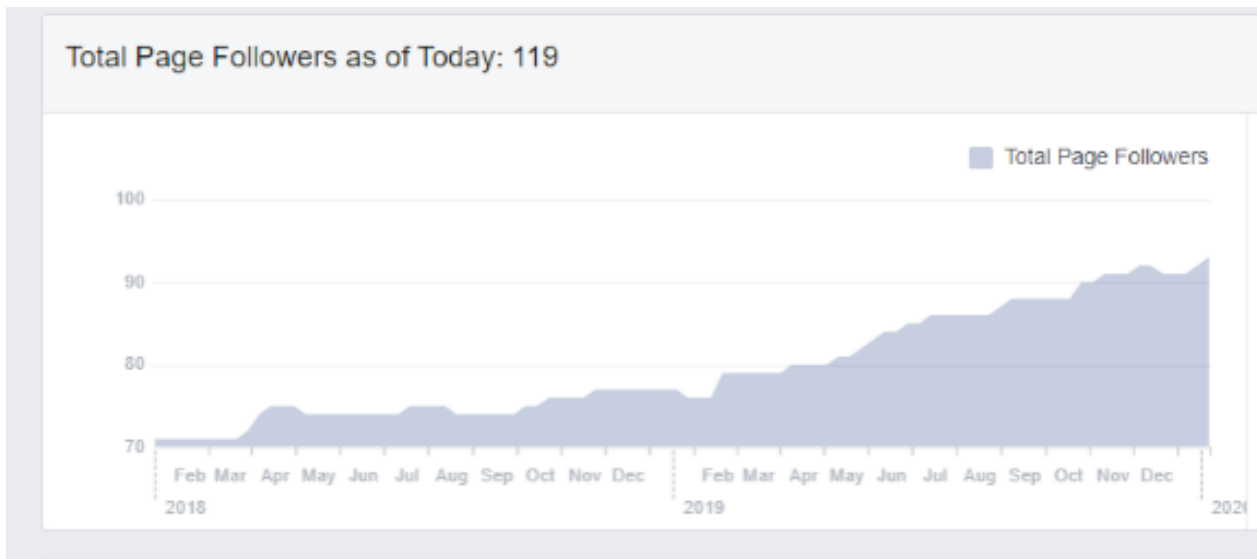
Page impressions:	6753
Pageviews / Visit:	2.05
Visitors:	3292
Average Duration per Visit:	119
Bounce Visits:	2144
New Visitors:	2457



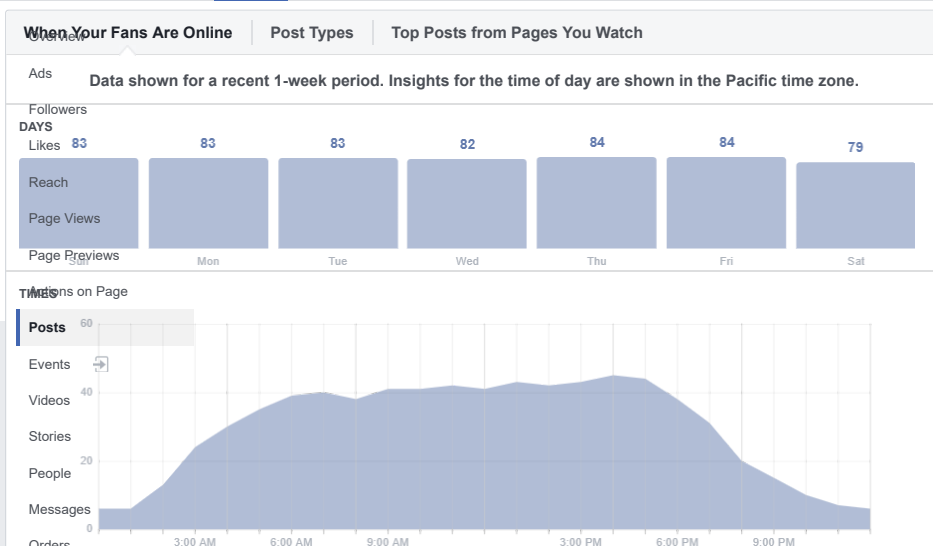
## ARC FACEBOOK POSTS

- ARC created posts in 2018: 25
- ARC created posts in 2019: 51


## ARC FACEBOOK FOLLOWERS 2018-2019










































































## All Posts Published

 Create Post

Reach: Organic / Paid  Post Clicks  Reactions, Comments & Shares 

Published	Post	Type	Targeting	Reach	Engagement	Promote
01/30/2020 9:57 AM	 Those of you in Washtenaw County Government don't			29	0 4	
01/30/2020 9:53 AM	Those of you in Oakland County, Michigan			27	1 3	
01/30/2020 9:50 AM	 Don't pour chemicals down storm drains which lead to			25	0 3	
01/23/2020 11:22 AM	 Are you responsible for salting public areas, parking			144	11 13	
01/17/2020 9:04 AM	 Snows coming! Pick up the pet waste in your yard			37	0 3	
01/16/2020 12:56 PM	 Alliance of Rouge Communities			34	2 2	
01/16/2020 12:49 PM	 When a large rain event is in the forecast - make sure			259	6 4	
11/25/2019 12:43 PM	 Introduction to Lakes - Online Course			44	8 2	
11/15/2019 11:38 AM	 Ever wonder what a watershed is? Or what it			229	17 19	
11/05/2019 12:36 PM	 Did you miss our webinar? View the recording of the			728	24 7	
11/05/2019 11:44 AM	 Washtenaw County Clean up Day - EMU			14	1 0	
11/05/2019 11:36 AM	 Alliance of Rouge Communities			20	1 0	
10/30/2019 9:03 AM	Alliance of Rouge Communities			20	0 0	
10/30/2019 9:02 AM	 Can't wait to see this project benefit us all!			24	2 0	
10/30/2019 8:55 AM	 If you were unable to attend the Grand Opening of the			31	6 3	
10/24/2019 10:03 AM	 Alliance of Rouge Communities			31	4 2	
10/24/2019 10:02 AM	Southfield Household Hazardous Waste Day set			23	0 0	
10/22/2019 2:56 PM	 Thank you to all those that attended the Great Lakes			63	20 6	

10/08/2019 8:50 AM Overview				3.8K		29 15		<a href="#">View Promotion</a>
09/26/2019 3:43 PM Followers				116		2 6		<a href="#">Boost Post</a>
08/26/2019 8:45 AM Reach				31		4 0		<a href="#">Boost Post</a>
08/26/2019 8:44 AM Page Views				33		3 3		<a href="#">Boost Post</a>
07/29/2019 4:34 PM Page Previews				37		0 1		<a href="#">Boost Post</a>
07/29/2019 4:26 PM Actions on Page				32		3 0		<a href="#">Boost Post</a>
07/29/2019 4:21 PM Posts				128		5 13		<a href="#">Boost Post</a>
07/09/2019 10:25 AM Stories				40		2 5		<a href="#">Boost Post</a>
05/09/2019 10:00 AM Messages				20		2 0		
05/09/2019 10:15 AM Orders				37		1 4		<a href="#">Boost Post</a>
04/11/2019 10:33 AM				18		1 0		
04/11/2019 10:31 AM				23		2 1		<a href="#">Boost Post</a>
04/11/2019 10:25 AM				26		0 1		<a href="#">Boost Post</a>
04/11/2019 10:24 AM				17		0 1		
04/04/2019 12:11 PM				29		2 0		<a href="#">Boost Post</a>
04/04/2019 12:10 PM				17		0 0		
04/04/2019 9:47 AM				38		5 3		<a href="#">Boost Post</a>
04/01/2019 11:33 AM				28		3 2		<a href="#">Boost Post</a>
03/22/2019 9:43 AM				83		3 8		<a href="#">Boost Post</a>
03/22/2019 9:17 AM				22		0 0		<a href="#">Boost Post</a>
03/22/2019 9:15 AM				29		3 0		<a href="#">Boost Post</a>
03/22/2019 9:14 AM				24		0 0		<a href="#">Boost Post</a>
03/20/2019 12:04 PM				18		0 0		<a href="#">Boost Post</a>
03/11/2019 3:05 PM				24		0 0		<a href="#">Boost Post</a>
03/11/2019 3:04 PM				401		46 6		<a href="#">Boost Post</a>
03/08/2019 1:54 PM				23		0 1		<a href="#">Boost Post</a>
03/08/2019 1:54 PM				13		0 0		
03/05/2019 3:12 PM				119		4 4		<a href="#">Boost Post</a>
01/31/2019 11:19 AM				35		0 0		<a href="#">Boost Post</a>

01/23/2019 3:40 PM Overview	Check out what the Friends of the Detroit River have been up to!			41		2 1		<a href="#">Boost Post</a>
01/11/2019 1:23 PM Followers	Henry Ford Estate Fishway Project Construction Update			48		5 4		<a href="#">Boost Post</a>
01/09/2019 12:35 PM Reach	Recycle you Christmas tree instead of throwing it away -			39		2 0		<a href="#">Boost Post</a>
01/09/2019 12:19 PM Page Views	Snow finally in the Rouge River Watershed! Use less			177		31 15		<a href="#">Boost Post</a>
12/05/2018 12:00 PM Actions on Page	Winter Stonelly Search			20		0 0		
12/05/2018 12:00 PM Events	HFE Fishway Project Construction Week of			51		8 6		<a href="#">Boost Post</a>
11/15/2018 12:53 PM Stories	11/12 weekly update: Fair Lane, Home of Clara and			82		12 5		<a href="#">Boost Post</a>
11/05/2018 2:19 PM People	11/5 weekly update: Henry Ford Estate Fair Lane -			443		30 16		<a href="#">Boost Post</a>
10/30/2018 1:00 PM Messages	Household Hazardous Waste Collection event:			27		1 1		<a href="#">Boost Post</a>
10/22/2018 12:14 PM Orders	11/5 weekly update: Henry Ford Estate-Fair Lane HFE			38		0 2		<a href="#">Boost Post</a>
10/15/2018 11:58 AM	http://www.allianceofrougecommunities.com/PDFs/pres			29		2 1		<a href="#">Boost Post</a>
10/12/2018 11:07 AM	Fair Lane, Home of Clara and Henry Ford Fishway			35		1 1		<a href="#">Boost Post</a>
10/04/2018 12:27 PM	Get out and enjoy the Rouge River this fall and			36		1 4		<a href="#">Boost Post</a>
10/04/2018 10:54 AM	PLEASE NOTE THAT Fair Lane, Home of Clara and			37		3 3		<a href="#">Boost Post</a>
10/04/2018 10:39 AM	Here are 3 ways you can help protect our drinking water!			24		0 1		<a href="#">Boost Post</a>
09/18/2018 11:01 AM	Alliance of Rouge Communities			16		0 0		<a href="#">Boost Post</a>
09/18/2018 11:00 AM	Annual Meeting Dinner & Guest Speaker Orin			25		2 0		
09/18/2018 10:59 AM	Rain Garden Plant & Seed Swap & Potluck BBQ!			31		3 0		
09/18/2018 10:59 AM	Fall Bug Hunt			29		2 0		
09/10/2018 8:17 AM	Take the Michigan Water Quality Quiz! See if you			112		3 1		<a href="#">Boost Post</a>
08/07/2018 9:26 AM	Check out the informative story about the ARC's			122		11 10		<a href="#">Boost Post</a>
07/16/2018 2:05 PM	Dispose of your boat waste properly, keep bilges clean			32		0 0		<a href="#">Boost Post</a>
07/11/2018 11:56 AM	Great projects happening in the Rouge River Watershed!			48		18 6		<a href="#">Boost Post</a>
07/11/2018 11:42 AM	The Contaminated Rouge River Gets Cleaned Up –			28		2 2		<a href="#">Boost Post</a>
06/14/2018 11:14 AM	Don't feed the geese! The concentration of droppings			92		8 3		<a href="#">Boost Post</a>
05/21/2018 10:06 AM	Look for our black eyed susan seed packets at your			34		1 2		<a href="#">Boost Post</a>
02/22/2018 8:40 AM	Minimize use of your washing machine,			28		0 2		<a href="#">Boost Post</a>
12/13/2017 8:46 AM	The ARC wants to get your opinion, which could get you			0		0 14		<a href="#">View Promotion</a>
12/08/2017 12:42 PM	Rock salt doesn't just disappear when all the			0		0 10		<a href="#">Boost Post</a>

10/02/2017 10:02 AM Overview		Learn what you can do to protect water quality at the			0		0 8		
09/20/2017 11:54 AM Ads		Alliance of Rouge Communities			0		0 0		
09/20/2017 11:46 AM Followers		Alliance of Rouge Communities			0		0 1		
09/20/2017 11:43 AM Reach		The ARC will be giving away free tree seedlings at			0		0 10		
09/19/2017 11:02 AM Page Previews		Don't forget to register for the ARC's FREE Septic			0		0 0		
09/11/2017 11:12 AM Actions on Page		Don't forget to register for the ARC's FREE			0		0 1		
08/29/2017 12:23 PM Posts		This fall plant a variety of native species around			0		0 6		
08/29/2017 12:07 PM Stories		Don't forget to register for the ARC's FREE			0		0 1		
08/29/2017 12:07 PM Messages		Non-Point Source Pollution Survey - Friends of the			0		0 0		
08/15/2017 2:04 PM Orders		Dispose of your boat waste properly, keep bilges clean			0		0 3		
08/04/2017 4:16 PM		ARC Chair, Brandy Siedlaczek, gives Senator			0		0 10		
08/04/2017 2:03 PM		Alliance of Rouge Communities			0		0 1		
08/02/2017 1:01 PM		The ARC is offering two free workshops! Visit			0		0 6		
08/01/2017 12:07 PM		The ARC wants to get your opinion, which could get you a \$100 Visa			0		0 18		
07/31/2017 9:30 AM		Use slow release, phosphorus-free fertilizer			0		0 6		
07/18/2017 9:35 AM		Get out and enjoy the Rouge River, it is closer			0		0 12		
07/17/2017 10:53 AM		ARC banners move on to the City of Westland -			0		0 5		
06/28/2017 10:17 AM		The ARC's banners continue to travel			0		0 7		
06/28/2017 9:56 AM		Pick up after your pet to prevent the bacteria from			0		0 3		
06/12/2017 12:20 PM		Look for the ARC's traveling banners throughout the			0		0 1		
06/06/2017 10:28 AM		Waterfront property owners should plant trees, shrubs,			0		0 13		
05/19/2017 9:34 AM		Keep storm drains clear of debris to prevent storm			0		0 1		
04/24/2017 8:43 AM		Use a broom to sweep fertilizer and grass clippings			0		0 2		
04/05/2017 9:48 AM		Install a rain barrel to capture rainwater for your			0		0 3		
02/23/2017 12:48 PM		The Michigan Chapter of the American Public Works			0		0 3		
02/13/2017 10:35 AM		During the winter all that dirty snow and road salt drip			0		0 2		
01/11/2017 8:47 AM		Use less salt by shoveling early and often to protect			0		0 1		
12/05/2016 10:26 AM		Pick up after your pet, even in the winter, to prevent the			0		0 0		
09/22/2016 10:15 AM		When winterizing your pool, spa or fountain this fall allow			0		0 1		



## ARC FACEBOOK POSTS

### 2018 Posts

12/5/18 HFE Fishway Project Construction Week of December 3, 2018 - HFE Fishway will remain an active construction area at Fair Lane, Home of Clara and Henry Ford in the City of Dearborn Government in Wayne County, Michigan. Work will continue with excavated materials leaving the site. The Michigan Avenue lane closures and traffic control devices will remain in place. The Gateway Trail will be closed by the contractor during the work week (Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 95% completed with the overall project completion around 75%.

11/13/18 11/12 weekly update: Fair Lane, Home of Clara and Henry Ford Fishway will remain an active construction area in the City of Dearborn Government in Wayne County, Michigan. Work on the fishway channel will continue with stone and other materials being delivered and excavated materials leaving the site. The Michigan Avenue lane closures and traffic control devices will remain in place. The Gateway Trail will be closed by the contractor during the work week next week (Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 95% completed with the overall project completion around 75%.

11/5/18 11/5 weekly update: Henry Ford Estate Fair Lane - University of Michigan Dearborn HFE Fishway will remain an active construction area in the City of Dearborn Government in Wayne County, Michigan. Work on the fishway channel will continue with stone and other materials being delivered and excavated materials leaving the site. The Michigan Avenue lane closures and traffic control devices will remain in place. The Gateway Trail will be closed by the contractor during the work week next week (Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 85% completed with the overall project completion around 70%.

10/22/18 10/22 weekly update: Henry Ford Estate-Fair Lane HFE Fishway will remain an active construction area in the City of Dearborn Government in Wayne County, Michigan. Work on the fishway channel will continue with stone and other materials being delivered and excavated materials leaving the site. The Michigan Avenue lane closures and traffic control devices will remain in place. The Gateway Trail will be closed by the contractor during the work week next week (Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 85% completed with the overall project completion around 70%.

10/12/18 Fair Lane, Home of Clara and Henry Ford Fishway Project Construction Week of October 15, 2018

HFE Fishway will remain an active construction area in City of Dearborn Government Wayne County, Michigan. Additional trees and equipment will be delivered on Monday and earthwork and planting will continue through the week. The contract will re-instate the lane closures and traffic control devices along Michigan Avenue during the early part of the week. The Gateway Trail will be closed by the contractor during the work week next week (Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 30% completed with the overall project completion around 20%.

10/4/18 Get out and enjoy the Rouge River this fall and look for wild turkeys which were thought to have all but disappeared from Michigan by 1900 partially due to habitat loss. Protecting water quality has assisted in the comeback of the wild turkey! (spotted in Superior Twp. in Washtenaw County Water Resources Commissioner's Office)

10/4/18 PLEASE NOTE THAT Fair Lane, Home of Clara and Henry Ford (Henry Ford Estate - HFE) Fishway Project Construction will resume the week of October 1, 2018 -

The Wayne County, Michigan /Alliance of Rouge Communities HFE Fishway will remain an active construction area. Equipment and trees will be delivered to the site starting on 10/1/18 and earthwork activity will resume mid to late in the week. As the contractor gains their approvals from MDOT, they will re-instate the lane closures and traffic control devices along Michigan Avenue in City of Dearborn Government during the week. The Gateway Trail will be closed by the contractor during the work week next week (10/8: Monday – Friday) and reopened for weekend passage. The construction of the channel is approximately 30% completed with the overall project completion around 20%. See <http://www.allianceofrougecommunities.com/.../HFE%20Dam%20Fis...> for more information on the project!

10/4/18 Get out and enjoy the Rouge River this fall!

7/16/18 Dispose of your boat waste properly, keep bilges clean with absorbent sponges or pads, and inspect boats and trailers for plant debris and zebra mussels.

6/14/18 Don't feed the geese! The concentration of droppings adds excess nutrients and harmful bacteria to the Rouge River.

5/21/18 Look for our black eyed susan seed packets at your local community offices and events like Washtenaw County Roads Open House #washtenawroads . Michigan native plants help slow runoff and provide added filtration before the runoff enters the Rouge River.

2/22/18 Minimize use of your washing machine, dishwasher or shower during times of heavy rain because it stresses the sewer system.

## **2019 Posts**

1/9/19 Snow finally in the Rouge River Watershed! Use less salt by shoveling early and often to protect the river and choose environmentally friendly alternatives when you can.

1/9/19 Recycle you Christmas tree instead of throwing it away - it's better for the environment! Oakland County 2019 – Oakland County Parks, SOCRRA, and other communities in Oakland County MI that offer Christmas tree recycling.

<https://www.oakgov.com/.../R.../Christmas%20Tree%20Recycling.pdf>

1/11/19 Henry Ford Estate Fishway Project Construction Update January 11, 2019 - No work has occurred onsite since December 21, 2018. It is currently planned for work to re-commence on Monday January 14, 2019. The HFE Fishway will remain an active construction area at Fair Lane in the City of Dearborn Government in Wayne County, Michigan. The lane closures on Michigan Avenue will be reinstated when work resumes. The Gateway Trail is open to pedestrian traffic until work resumes. The



construction of the channel is approximately 98% completed with the overall project completion around 80%.

1/31/19 Rock salt doesn't just disappear when all the snow melts; it is washed into our lakes, rivers, and streams and has an almost immediate effect on water quality. As a homeowner, consider reducing salt use by applying brine, not rock salt, before a snow storm and shoveling frequently to keep snow from accumulating.

3/5/19 HFE Fishway Project Construction Update 3/1/19 Monday, February 25, 2019 through Friday, March 1, 2019, the contractor was onsite progressing with project restoration activities. As of today, March 1, 2019, the Michigan Avenue lane closure has been removed in the City of Dearborn Government in Wayne County, Michigan and the contractor will be off-site for an extended period of time. When warmer weather arrives, the contractor will be onsite intermittently to complete restoration activities. The Gateway Trail is open to pedestrian traffic. Only intermittent closures are to be expected during the spring restoration activities. The construction of the channel is 100% complete with the overall project completion around 95%.

3/22/19 Spring is coming to the Rouge River Watershed! And with that happy growzones and rain gardens to brighten and benefit wildlife habitat and water quality in places like Beech Woods Park in the City of Southfield, Michigan USA - Government.

4/4/19 The frogs say "It's spring in the Rouge River Watershed!" Get involved in a Frog and Toad Survey with the Friends of the Rouge to gage the health of the Rouge River. Video recording

7/29/19 Thanks to a grant from the USDA Forest Service ARC communities are planting 680 trees, like these in City of Novi - Government & Community Services, to help protect water quality in the Rouge River Watershed!

9/26/19 Mark your calendar for the ARC's Septic System Maintenance Webinar! It will be on November 4, 2019 at 7:00 p.m. Stay tuned for more information! Check out this video done by the Michigan Department of Environment, Great Lakes and Energy (formerly MDEQ) [YOUTUBE.COM MI EnviroMinute](https://www.youtube.com/watch?v=MI_EnviroMinute) – Septic System video

10/8/19 Septic System Maintenance Webinar Mon, Nov 4, 2019 7:00 PM - 9:00 PM EST Join the webinar from your computer, tablet or smartphone. <https://global.gotomeeting.com/join/585412933>

10/10/19 Septic System Maintenance Webinar

10/22/19 Thank you to all those that attended the Great Lakes Restoration Celebration at The Henry Ford on 10/18/19, including Senator Debbie Stabenow, Executive Warren C. Evans, and students from the Henry Ford Academy, celebrating restoration activities in southeast Michigan along with the grand opening ribbon cutting of the Rouge River Oxbow Restoration at The Henry Ford funded by National Oceanic and Atmospheric Administration (NOAA), U.S. Environmental Protection Agency, Wayne County, Michigan, Clean Michigan Initiative and the Rouge River National Wet Weather Demonstration Project. Special thanks to our sponsors The Henry Ford, Environmental Consulting & Technology, Inc. and SEMCOG, Southeast Michigan Council of Governments and all the watershed organizations that made the day a success!

10/30/19 If you were unable to attend the Grand Opening of the Rouge River Oxbow at The Henry Ford on October 18, 2019, you can watch it here with special thanks to The Henry Ford for capturing this exciting event! [YOUTUBE.COM Oxbow Ribbon Cutting video](#)

10/30/19 Fish stocking at the Grand Opening of the Rouge River Oxbow at The Henry Ford.

11/5/19 Did you miss our webinar? View the recording of the ARC's Septic System Maintenance Webinar that originally aired on 11/4/19. Visit our website for more information at <http://www.allianceofrougecommunities.com/septic.html>

11/15/19 Ever wonder what a watershed is? Or what it has to do with you? Find out by visiting <http://www.allianceofrougecommunities.com/watershed.html>

## **ARC REPOSTS AND SHARES PROMOTING WORKSHOPS/PRESENTATIONS, VOLUNTEER ACTIVITIES/MONITORING**

### 2018 Reposts

7/11/18 IJC.ORG The Contaminated Rouge River Gets Cleaned Up – Great Lakes Connection/Connexion Grands Lacs Article

7/11/18 Great projects happening in the Rouge Rouge River Watershed FREEP.COM Article Rouge River fish to get exclusive freeway at Ford's Fair Lane Estate

8/7/18 Check out the informative story about the ARC's fishway project going on at the Henry Ford Estate! Thanks to City of Dearborn Government CDTV.VIEBIT.COM This Week in Dearborn Video

9/10/18 Take the Michigan Water Quality Quiz! See if you know your stuff!

<https://www.freep.com/.../intera.../sponsor-story/quiz-mi-water/> FREEP.COM

9/18/18 Friends of the Rouge Fall Bug Hunt

9/18/18 Rain Garden Plant & Seed Swap & Potluck BBQ - Bring seeds or plants that you have collected from your garden to trade and give away. FREE seeds and plants! Ok to come empty-handed too. Bring a dish/drink to share, and a camping chair if you have one. Host Michael says: "It would be great to meet all of you over a beer, a brat and a salad. Please bring your significant others along and whoever you think might enjoy meeting the rain-gardener-crowd. Kids are welcome and there will be entertainment for them."

9/18/18 Friends of the Detroit River Annual Meeting Dinner & Guest Speaker Orin Gelderloos

9/18/18 Washtenaw County Water Resources Commissioner September 18, 2018 · Tuesday's Tip to be Septic Smart: Don't Strain Your Drain! Find even more tips at <http://bit.ly/HRWC-septic> and from the EPA [www.epa.gov/septic](http://www.epa.gov/septic)

10/4/18 Great Lakes Water - Here are 3 ways you can help protect our drinking water!

<https://www.glwater.org/.../2018/10/ProtectDrinkingWater.pdf>

10/15/18 US Army Corps of Engineers News Release Environmental Cleanup to remove sediment, debris in Lower Rouge River will begin soon – article

[https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.allianceofrougecommunities.com%2FPDFs%2Fpress%2FLRROC%2520Contract%2520Award%25202018.pdf%3Ffbclid%3DIwAR3PjpvPiz7g0s9-RnFWAwOrjNwGwihNIOCoa\\_OrDu2u61dumP036R6Pelo&h=AT0QOOjtkapyeJVtP7KBoZY9S4HngLotiqClhs4lrZ4FWTCANOSRLx-jyWCOlruysDi8lGMlnnlGQTQITXyo0e1QEG-gGerNsh3H\\_8cZlvxej8tEkiDLsrB9tRpt2rmEynp5spl6WiWydVvnz2SEk2eXytF6cz1h\\_RTWln2E1o1FxOMnV40pxv9IsPnP26qdHaHfl4q8Qol8dQ-KA\\_uEnAA4ZTxRx9GG3AlpBM6Xr4ws0li-jDY5aOO8l15M5zO20YZ5l4wv3dMNR71hes4\\_RcdmIKlvvBvoHS\\_g22ZBxGVqMp5ZWglFWoK3cs\\_RgS41g44xBkOLwhz3yCr1HxYr\\_0Q2yKPjc6stODy9oGJrAW70Zq0bbNoA3fXwQ2qQ0g\\_qXeEb7gwFJ08iRLphWrnFbXil00oWuMaSyKlKlMfp2u0bwN\\_yiHA0WeoBgWQ4AfmjfrWykgtknGi2Wo7UGn4E7\\_57Aapeptzf5D1cUgXF8Cy9f2Fm2b5gUC8s2Y7dg9L7NLe\\_FCP-](https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.allianceofrougecommunities.com%2FPDFs%2Fpress%2FLRROC%2520Contract%2520Award%25202018.pdf%3Ffbclid%3DIwAR3PjpvPiz7g0s9-RnFWAwOrjNwGwihNIOCoa_OrDu2u61dumP036R6Pelo&h=AT0QOOjtkapyeJVtP7KBoZY9S4HngLotiqClhs4lrZ4FWTCANOSRLx-jyWCOlruysDi8lGMlnnlGQTQITXyo0e1QEG-gGerNsh3H_8cZlvxej8tEkiDLsrB9tRpt2rmEynp5spl6WiWydVvnz2SEk2eXytF6cz1h_RTWln2E1o1FxOMnV40pxv9IsPnP26qdHaHfl4q8Qol8dQ-KA_uEnAA4ZTxRx9GG3AlpBM6Xr4ws0li-jDY5aOO8l15M5zO20YZ5l4wv3dMNR71hes4_RcdmIKlvvBvoHS_g22ZBxGVqMp5ZWglFWoK3cs_RgS41g44xBkOLwhz3yCr1HxYr_0Q2yKPjc6stODy9oGJrAW70Zq0bbNoA3fXwQ2qQ0g_qXeEb7gwFJ08iRLphWrnFbXil00oWuMaSyKlKlMfp2u0bwN_yiHA0WeoBgWQ4AfmjfrWykgtknGi2Wo7UGn4E7_57Aapeptzf5D1cUgXF8Cy9f2Fm2b5gUC8s2Y7dg9L7NLe_FCP-)

[dfPHA6yEjgE33zMmGl0WljpuCHKWf\\_wVqrL\\_P7X1nywlcU25ogVuN8dmMhd3142YJ6XfGOa7E\\_C6MJ1rRk\\_wgJOYFeQHb7kFIKgA6zy1-WUJQnfGF9Rsn6psrMpxPFqB](https://www.waynecounty.com/.../environmental/land-resource-m...)

10/30/18 Household Hazardous Waste Collection event: 11/3/18 Wayne County Community College - <https://www.waynecounty.com/.../environmental/land-resource-m...>

12/5/18 FOTR Winter Stonefly Search

### 2019 Reposts

1/23/19 Check out what the Friends of the Detroit River have been up to! Great stuff for habitat in the Great Lakes! ARCGIS.COM The Detroit River: Its Restoration and Preservation article

1/31/19 FOTR Become a Master Rain Gardener Get your lawn a job – solve big problems and have fun!

3/8/19 FOTR Lower Rouge Water Trail Public Open House at Jefferson Barns Community Vitality Center in Westland

3/8/19 City of Wixom Have you been to the Wixom Habitat lately? Thank you to Russ Meredith for sharing these wonderful photos.

3/11/19 The OAKLANDPRESS.COM Volunteers sought for Rouge Frog and Toad Survey article

3/11/19 HRWC.ORG Norton Creek Restoration Project is Underway – Huron River Watershed Council Article

3/20/19 City of Wixom A beautiful morning view at the Wixom Habitat

3/22/19 Check out these awesome videos from our member communities including Wixom and Farmington Hills on where your recycling items go after they get picked up from your curb! Have you ever wondered what happens after your recycling cart is picked up? This new video from RRRASOC shows how your recyclables are converted into valuable resources that will be reused to make new products. <https://www.youtube.com/watch?v=SI86WvGNaek&feature=youtu.be>

3/22/19 Washtenaw County Water Resources Commissioner - Washtenaw County Water Resources Commissioner · Sarah was doing photo monitoring at the rain gardens at Miller and Madison. While she was there, she picked up this much trash! When the snow melts, it uncovers trash from the whole winter. If you see some, please pick it up!

3/22/19 MDNR Upcoming changes to Michigan's Natural Resources and Environmental Protection Act are aimed at keeping invasive species from spreading across our waters. Beginning March 21, all boaters will be required to perform the following actions before leaving a boating access area:

- ☒ Remove all drain plugs from bilges, ballast tanks, and live wells
- ☒ Drain all water from any live wells and bilges
- ☒ Ensure that the watercraft (including canoes and kayaks), trailer, and any transporting equipment is free of aquatic organisms, including plants

Remember that boaters cannot place watercraft or trailers in the waters of Michigan if an aquatic plant is attached.

Additionally, the changes will require bait to be disposed of in trash containers, never in the water. As a reminder, fish may be released only in the waters where they were caught. These changes are laws and must be followed by all individuals using boating equipment or fishing on Michigan's lakes and rivers - <http://bit.ly/2HuqU11>. Help keep our fishing and recreational activities world class by following the law and remembering to CLEAN, DRAIN, DRY, and DISPOSE. #MiDNR #NotMiSpecies

4/1/19 City of Ann Arbor - Rain puts stress on our stormwater system. Ann Arbor's trees help reduce stormwater runoff that tends to carry pollution. They're just one part of our stormwater system that helps reduce flooding and water pollution. For more info visit <http://a2gov.org/stormwater>.

4/4/19 Friends of the Detroit River – Lower Detroit River Spring Clean Up event

4/4/19 City of Wixom - Household Hazardous Waste Day is Saturday, April 6, 9 a.m. - 2 p.m., at the Wixom Department of Public Works (located at 2041 Charms Road in Wixom). Please see the provided link for a list of items that can be discarded / recycled at this event. <http://rrrasoc.org/household-hazardou.../acceptable-materials/>

4/11/19 FOTR Rouge Rescue 2019 event

4/11/19 Washtenaw County Water Resources Commissioner - Calling all local officials and decision makers! If you're interested in learning about water, its importance to our economy and environment, and what you can do to protect this valuable resource, attend the MSU Water School: Essential Resources for Local Officials on May 13 and 14. Register here by May 3: <http://bit.ly/WaterSchoolHRWC>

4/11/19 Canton Township - Friends of the Rouge will be holding a Lower Rouge River Water Trail Public Open House tonight from 6-8pm at the Jefferson Barns Community Vitality Center located at 32150 Dorsey Street in Westland.

4/11/19 FOTR – Volunteer Tree Planting at E. L. Johnson Nature Center event

5/9/19 FOTR - First fish surveys of the year. Great to be back in the water with this great crew!

5/9/19 Don't forget Rouge Rescue! Your efforts make the Rouge River Watershed healthier for all of us! FOTR Rouge Rescue 2019

7/9/19 Check out these Stormwater@Home videos to help manage all the rain we have received in the Rouge River Watershed from our friends at the University of Illinois Extension and the Illinois-Indiana Sea Grant YOUTUBE.COM Stormwater@ Home – Ep. 1: Introduction

7/29/19 Friends of the Detroit River - Great Lakes Habitat Restoration Efforts Recommended for 2019 NOAA Funding New Partnerships: Friends of the Detroit River (FDR) will partner with NOAA to carry out habitat restoration projects within three Areas of Concern: the Detroit River, Rouge River, and River Raisin. Projects will remove hardened shorelines, protect coastal wetlands, and replace invasive plant species. In the first year of the partnership, FDR will complete plans to restore Sugar Island and Hennepin Marsh in the Detroit River.

7/29/19 Washtenaw County Water Resources Commissioner - Tips for Clean Water: Pick up after your pets to keep #2 out of storm drains. These drains flow directly into our lakes, rivers and streams without treatment. Be an #H2OHero For more tips check out the Huron River Watershed Council at <https://www.hrwc.org/take-action/at-home/>

8/26/19 Friends of the Detroit River - Congrats to the great work in the Detroit River by the Friends of the Detroit River! THENEWSHERALD.COM Stony Island restoration project earns local group Project of Year Award

8/26/19 Washtenaw County Water Resources Commissioner - Remember, wetlands are protected in the State of Michigan! The Department of Environment, Great Lakes, and Energy (EGLE) must be consulted before any work occurs in or around these areas. Click the link for their Wetlands Map Viewer to see if you may have a regulated wetland on your property. <https://www.mcgi.state.mi.us/wetlands/>

10/14/19 FOTR article – FOX2DETROIT.COM In 1969 the Rouge River burned. 50 years and more than a billion dollars later, life has returned to the water

10/24/19 City of Southfield – CITOFSSOUTHFIELD.COM Southfield Household Hazardous Waste Day set for October 26 article

10/24/19 City of Rochester Hills - To some, bats may be a bit spooky, especially this time of year as Halloween approaches. However, these flying mammals are an important part of Michigan's landscape and ecology. Bat Week is Oct. 24-31, which is an international annual recognition of the need for bat conservation!

Here in Michigan, we have nine different bat species. In our area, there are 2 common species of bats that are found; the Little Brown Bat and the Big Brown Bat. Michigan's bats are nocturnal – meaning they're active at night – consuming tons of insects, including mosquitoes! Bats emit pulses of high-frequency sound and use these echoes off objects to determine the object's distance, size and shape.

Despite their benefits, bats are in decline nearly everywhere they are found. Bats, like most wild animals, should be treated with respect and left alone. If you have questions on bats, call our City Naturalist at 248-656-4775. You can also join us for our "Learning to Coexist with our Wild Neighbors" program this Thursday evening at City Hall. To register, visit [www.rochesterhills.org/outdoors](http://www.rochesterhills.org/outdoors)

10/30/19 Washtenaw County Water Resources Commissioner - Together with A2Golf and the City of Ann Arbor, we're planning on 'daylighting' this historic creek and restore wetlands (1:26) at Huron Hills Golf Course.

Daylighting refers to taking a creek that was put underground with a pipe long ago, and bringing it back to the surface.

The project will reduce downstream pollution, improve habitat and be way more interesting to look at. Don't worry, golfers! We're using a golf course architect to make sure play is enhanced too.

See if you can follow the hidden creek in this aerial video from Andrew Walton.

10/30/19 Huron River Watershed Council - Calling all inland lake shoreline property owners. There is a new video series for what you can do on your property to protect your lake, brought to you by the Shoreland Stewards program and the MNSP. Definitely worth the watch! <http://ow.ly/jSrw50wT8px>

11/5/19 Washtenaw County Water Resources Commissioner - Follow the right Rx for drug disposal.

Old or unused prescription meds should never be flushed down the toilet. Instead, find a nearby take-back program. Or wrap the containers in duct tape and several layers of plastic bags before putting them in the trash.

For year-round medication disposal locations in Washtenaw County, check out:

<http://dontflushdrugs.com/>

11/5/19 Washtenaw County Water Resources Commissioner – Clean-up Day EMU HHW event

11/25/19 Michigan Inland Lakes Partnership – Introduction to Lakes Learn About the Lakes you Love, online course

## **Appendix C**


### **Articles/Ad Graphic Report**



## Brine instead of Rock Salt to Protect Water Quality!

Salt keeps our communities safe, by reducing both the number of vehicle accidents as well as slip and fall accidents. Unfortunately, salt doesn't just disappear when all the snow melts; it is washed into our lakes, rivers, and streams and has an almost immediate effect on water quality. As a homeowner, consider reducing salt use by applying brine, not rock salt, before a snow storm and shoveling frequently to keep snow from accumulating. This is the best way to save your back, your knees, and the Rouge River!

Brine, a mixture of salt and water, has become a great alternative to traditional rock salt. The transition to using brine for a homeowner has minimal costs. The brine can be pre-mixed in large quantities and stored in your basement or garage. By spraying brine, you have more control over your application, so you don't apply over the same area twice and it won't bounce off the driveway the way rock salt can. Brine starts working much faster than rock salt due to the increased contact area with the snow. The best method is to apply the brine before a snow storm begins. Not all communities have transitioned to the use of brine on roads because there is a significant startup cost for additional equipment and storage.



### HOME RECIPE FOR BRINE

**What you need:**

- \* 1 1/2 gallons hot water
- \* 3-4 cups rock or table salt
- \* Bucket
- \* Sprayer

**Directions:**

Combine salt and hot water (which helps dissolve the salt) in bucket until all salt is dissolved completely (so salt chunks don't clog sprayer). Pour mixed brine into a sprayer and apply to sidewalk and driveway prior to a snowfall. Each gallon should cover 1,000 square feet of surface (about 200 feet of sidewalk).

## What Is a Watershed & What Does It Have to Do with Me?

Have you ever been asked if you live in a watershed? Only to realize you aren't sure, because you don't really know what a watershed is. This is not uncommon. The term watershed is not historically well-known; however, it is starting to make its way into our conversations. Why? Let's start with defining what a watershed is.

A watershed, also referred to as a drainage basin, is the land area that delivers rain and snow/ice melt to a stream or lake. Watersheds are divided by a ridge of high land which serves to separate two (or more) areas drained by different river systems. So, do you live in a watershed? Absolutely! Everyone who lives in Michigan, lives in a watershed!

So why is this important to know? No matter where you are at any given time, you are in a watershed, and your actions directly impact the health of that watershed. Additionally, the health of that watershed impacts you, everyone around you, and even the communities downstream.



When rain and snow/ice melt travel across the land (watershed) and through storm drains, it is called stormwater or runoff. As this runoff travels it picks up trash, contaminants, sediments and dissolved substances along the way until it discharges into the nearest water body. Small streams join to form rivers and flow across sloping land, eventually flowing into a lake. These bodies of water impacted by runoff provide recreational opportunities, habitat for wildlife, and even drinking water for communities. By keeping our cars from leaking, litter off the streets, and properly disposing of animal and chemical wastes we are being good stewards by protecting not only the health of our watershed but also ourselves and everything downstream.

To get more information on how you can protect water quality and to figure out which watershed you live and work in visit [www.allianceofrouragecommunities.com/watershed.html](http://www.allianceofrouragecommunities.com/watershed.html).

[Watershed Management Planning](#)
[ARC History](#)
[Committees](#)
[Documents  
-----  
Meeting Information](#)
[Calendar and Meeting Info](#)
[Activities And Events](#)
[Rouge In The News](#)

[Contact Us](#)
[Home](#)

[Membership In The ARC](#) ~ [Contested Case Information ~ What You Can Do To Improve The River](#)

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## Rouge in The News

- ARC Newsletter Article: [Brine instead of Rock Salt to Protect Water Quality!](#) December 2019
- ARC Newsletter Article: [What is a Watershed & What Does it Have to do with Me?](#) December 2019
- [Officials celebrate restoration of southeast Michigan river systems](#), October 2019
- [Michigan's Senators Push for Hike in Great Lakes Cleanup Aid](#), August 2019
- [Tamarack Creek Slated for Restoration](#), December 2018
- [More Success in the Rouge River AOC: Oxbow Restoration Phase 3](#), GLRI, November 28, 2018
- [Restoration of Fish Passage at the Henry Ford Estate Dam – Rouge River Area of Concern](#), November 2018
- [Dredging the Lower Rouge River Old Channel to Begin in 2019](#), October 2018
- News Release by U. S. Army Corps of Engineers: [Environmental cleanup to remove sediment, debris in Lower Rouge River will begin soon](#)
- [This Week in Dearborn with Mayor O'Reilly - Fishway Project at The Henry Ford Estate](#), August 3, 2018
- [The Contaminated Rouge River Gets Cleaned Up](#) IJC GLC, July 3, 2018
- [Rouge River fish to get exclusive freeway at Ford's Fair Lane estate](#), Detroit Free Press, July 3, 2018
- [Stabenow visits Wayne to highlight success in improving waterways like the Rouge River](#), Hometown Life, August 7, 2017
- [Detroit River back on the recreational map](#), Detroit Free Press, April 26, 2018
- [Battling pollution's legacy in metro Detroit's 'Areas of Concern' waterways](#), Kirk Haverkamp, Issue Media Group, March 24, 2016
- [Aquatic Invasive Species Newsletters](#) - Michigan's Invasive Species Program has developed a [new comprehensive website](#) providing information about existing and potential invasive species threatening our natural resources. The website, a collaborative effort of the Michigan Departments of Natural Resources, Environmental Quality, and Agriculture & Rural Development, includes a catalog containing identifying photos and reporting information. March, 2016
- [Two Detroit area rivers get aid to restore habitats](#), the Detroit News, August 21, 2015
- [On the Rouge](#), Belt Magazine, March 5, 2015
- [Mysterious Windsor Hum traced to Zug Island, Michigan](#) CBC News, May 23, 2014
- [1968 Life Magazine article](#) - Historic perspective on water pollution in the Great Lakes, prior to enactment of the Clean Water Act. It includes some great photos and mention of White Lake, among other future AOCs.,
- [The Mysterious Creatures in the Clinton River](#), Shawn Keenan, Water Resources Coordinator, January 14, 2014
- [GLRI letter to the House and Senate appropriators in support of continued funding, October 22, 2013.](#)
- [Ask the Expert: New Federal Stormwater Rules - Why We Should Care \(and Who's Going to Pay for It\)](#) article, by James W. Ridgway, Michigan Association of Counties eNewsletter, October, 2013
- [Rouge River Trail: Changing Course from Sewer to Scenic Waterway](#) article, by Kurt Kuban, Streamside Journal, March 12, 2013
- [Where's the Concern: Week Five](#) Great Lakes Echo, February 25, 2013
- [What Is the Future of Flow-Based Regulations?](#) By Seth Brown, stormwater program and policy manager, Water Environment Federation, February 7, 2013
- [Fiscal cliff could dump sewage into Great Lakes](#), Great Lakes Echo, December 11, 2012
- [MEMO – WEF's Current Understanding of the Stormwater Rulemaking](#), November 8, 2012
- [Rouge River Watershed, Michigan - A Case Study of How Green Infrastructure is Helping Manage Urban Stormwater Challenges](#)
- [Canoe Trips Offered Saturday Along the Rouge River in Wayne](#) Detroit Free Press, October 12, 2012
- [Rouge Canoe Expedition Successful](#) Canoeing to Grow on Rouge River
- [Fire set to Kill Plants Foreign to Michigan](#), Click on Detroit Channel 4 video, April 6, 2012
- [\\$1 million grant award to the ARC from NOAA](#) to remove the Wayne Road Dam and improve the fishery in the Lower Rouge River , (September 20, 2011)
- [Canton's River Day Plays Host to Multiple Celebrations](#), (June 4, 2011)
- [GE Volunteers Lend a Hand in Lower Rouge River Recreation Trail Cleanup](#) (August, 2010)
- [Friends of the Rouge Urges Public to Report Oil Spills Immediately](#) (August, 2010)
- [Insect Signals Rouge River is on Mend](#), Discovery of caddisfly suggests watershed's conditions improving (Detroit News, 6/29/10)
- [As the Rouge River is Cleaned Up, a New Species Moves In](#) (Michigan League of Conservation Voters Education Fund, 6/28/10)
- [Alliance of Rouge Communities is a finalist for two Great lakes Restoration Initiative grants worth \\$1.1 Million](#) to restore habitat in the Rouge River watershed. (June, 2010)
- [Canton Township - Volunteers Help make River Day a Success](#) press release regarding Rouge Rescue activities (June, 2010)
- [Great Lakes Reporter - Lower Rouge River Trails Connect Community](#) article (Fall 2009)
- American Public Works Association awards [Canton](#) and [Southfield](#) 2008 Project of the Year Awards.

- [MiEARTH](#) - The ARC is working with University of Michigan-Dearborn and public television station WTVS-Channel 56 to present MiEarth.org, a website devoted to the environment. This website will feature ongoing stories about environmental leaders, organizations and initiatives and will be supported by programming on Channel 56, as well as publicity on local television and radio. (3/09) [View the ARC's ad in Signal Magazine.](#)
- [Reduce Runoff: Slow It Down, Spread It Out, Soak It In](#) - New EPA Video Shows Green Practices to Manage Stormwater Runoff (3/09)
- [Canton man takes lead of organization in charge of cleaning up Rouge](#) (12/15/08)
- Press release: [ARC seeks public input on Watershed Management Plan](#) (12/12/08)
- [Liquid Assets, a ninety-minute PBS documentary](#), tells the story of essential infrastructure systems: water, wastewater, and stormwater - SHOWING IN THE DETROIT AREA on WTVS (HD) on Monday 11/10 at 11:00 a.m.
- [Storm Drain Awareness - Public Service Announcement](#)
- [Regional Cooperation - Public Service Announcement](#)
- PBS - [When It Rains...](#) Lee Hochberg reports on how stormwater runoff pollutes the water we drink and use for recreation.
- Free Press Article: [After years of work, 42-acre sanctuary set to open in Southfield](#) (10/3/08)
- [Southfield Living - Carpenter Lake Nature Preserve](#) (Fall 2008)
- Free Press Editorial: [Keep water rules flexible for Rouge River communities](#) (6/5/08)
- Press Release: [Nutrients and the Great Lakes](#) (5/15/08)



Comments or suggestions on this website  
contact: webmaster

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**Appendix D**  
**Poster/Banner Report**

## Appendix D Banner (Static Display) Report

STATIC DISPLAY TOPIC	DATE DISPLAYED	COMMUNITY/ENTITY	LOCATION OR EVENT WHERE DISPLAYED	Rouge River Subwatershed						
				Main 1-2	Main 3-4	Upper	Middle 1	Middle 3	Lower 1	Lower 2
<b><u>2018</u></b>										
You can Protect Water Quality in the Rouge River!	8/27/18-9/7/18	Village of Beverly Hills	Village office	1						
You can Protect Water Quality in the Rouge River!	7/16/18-7/27/18	Farmington	Founders Festival & City Hall	1		1				
You can Protect Water Quality in the Rouge River!	8/13/18-8/24/18	West Bloomfield Twp.	Township office	1		1				
You can Protect Water Quality in the Rouge River!	8/27/18-9/7/18	Henry Ford College	Liberal Arts & Welcome Center		1					
You can Protect Water Quality in the Rouge River!	10/8/18-10/22/18	Bloomfield Twp.	Open House and Township office	1						
You can Protect Water Quality in the Rouge River!	6/4/18-6/15/18	Westland	Jefferson-Barns Community Vitality Center					1		1
You can Protect Water Quality in the Rouge River!	7/30/18-8/10/18	Westland	Jefferson-Barns Community Vitality Center					1		1
You can Protect Water Quality in the Rouge River!	6/18/18-6/29/18	Northville Twp.	Township office			1	1			
You can Protect Water Quality in the Rouge River!	6/4/18-6/15/18	Dearborn Heights	Caroline Kennedy Library					1		1
You can Protect Water Quality in the Rouge River!	8/13/18-8/24/18	Redford Twp.	Township office		1			1		
You can Protect Water Quality in the Rouge River!	4/4/18-4/5/18	Bloomfield Hills	Cranbrook Institute of Science Spring into Science event	1						
You can Protect Water Quality in the Rouge River!	4/6/2018	Novi	Spring palooza			1	1			
You can Protect Water Quality in the Rouge River!	6/18/18-6/29/18	Walled Lake	City office				1			
You can Protect Water Quality in the Rouge River!	4/22/2018	Farmington Hills	Earth Day event	1		1	1			
<b>Number of times in subwatershed in 2018</b>				<b>6</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>3</b>
<b><u>2019</u></b>										
You can Protect Water Quality in the Rouge River!	4/15/19-4/26/19	W. Bloomfield Twp.	Township office	1		1				
You can Protect Water Quality in the Rouge River!	4/2/2019	Bloomfield Hills	Cranbrook Institute of Science Spring into Science event	1						

**Appendix D  
Banner (Static Display) Report**

STATIC DISPLAY TOPIC	DATE DISPLAYED	COMMUNITY/ENTITY	LOCATION OR EVENT WHERE DISPLAYED	Rouge River Subwatershed						
				Main 1-2	Main 3-4	Upper	Middle 1	Middle 3	Lower 1	Lower 2
You can Protect Water Quality in the Rouge River!	4/15/19-4/26/19	Lathrup Village	City office	1						
You can Protect Water Quality in the Rouge River!	4/29/19-5/10/19	Northville Twp.	Township office			1	1			
You can Protect Water Quality in the Rouge River!	5/23/2019	Henry Ford College	Drain Commissioners Southeast District		1					
You can Protect Water Quality in the Rouge River!	5/11/2019	Birmingham	DPS open house	1						
You can Protect Water Quality in the Rouge River!	5/13/19-5/24/19	Novi	Spring palooza			1	1			
You can Protect Water Quality in the Rouge River!	6/3/19-6/14/19	Village of Beverly Hills	City office	1						
You can Protect Water Quality in the Rouge River!	5/27/19-6/7/19	Westland	City office					1		1
You can Protect Water Quality in the Rouge River!	4/8/19-7/19/19	Farmington	Founders Festival and City office	1		1				
You can Protect Water Quality in the Rouge River!	4/22/2019	Farmington Hills	Earth Day event	1		1	1			
You can Protect Water Quality in the Rouge River!	9/16/19-9/26/19	Farmington Hills	City office	1		1	1			
You can Protect Water Quality in the Rouge River!	9/2/19-9/13/19	Livonia	City hall			1		1		
You can Protect Water Quality in the Rouge River!	10/14/19-10/25/19	Bloomfield Twp.	DPW office	1						
<b>Number of times in subwatershed in 2019</b>				<b>9</b>	<b>1</b>	<b>7</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>1</b>

## APPENDIX D POSTER REPORT

Permittee	Year Poster Displayed			Location Poster Displayed	
	2017	2018	2019	City/Twp. Office	Community Bldg.
Beverly Hills, Village of		1	1		
Bingham Farms, Village of		1	1		
Birmingham, City of	1	1	1		
Bloomfield Hills, City of					
Bloomfield Township		1	1		
Canton Township		1	1	X	
Dearborn Heights, City of	1	1	1		
Farmington, City of		1	1		
Farmington Hills, City of	1	1	1	X	X
Franklin, Village of					
Garden City, City of	1			X	
Henry Ford College	1	1	1		X
Inkster, City of	1	1	1	X	
Lathrup Village, City of		1	1	X	
Livonia, City of			1		X
Melvindale, City of		1	1	X	
Northville, City of		1	1	X	X
Northville Township		1	1	X	
Novi, City of			1	X	
Oakland County*	1	1	1	X	
Oak Park, City of					
Plymouth, City of	1	1	1	X	
Plymouth Township		1	1	X	
Redford Township		1		X	
Southfield, City of		1	1	X	
Troy, City of		1	1	X	X
Walled Lake, City of	1	1	1	X	
Wayne County*					
Wayne, City of		1	1	X	X
Westland, City of		1	1	X	X
West Bloomfield Township		1	1	X	



## **Appendix E**

### **Workshop/Volunteer Report**



## Septic System Maintenance Webinar

Annette DeMaria, P.E.  
Executive Director

For more information visit:  
[www.allianceofrougecommunities.com](http://www.allianceofrougecommunities.com)



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## Septic System Maintenance Webinar

Meghan Price  
Environmental Scientist

For more information visit:  
[www.allianceofrougecommunities.com](http://www.allianceofrougecommunities.com)



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## Alliance of Rouge Communities (ARC)

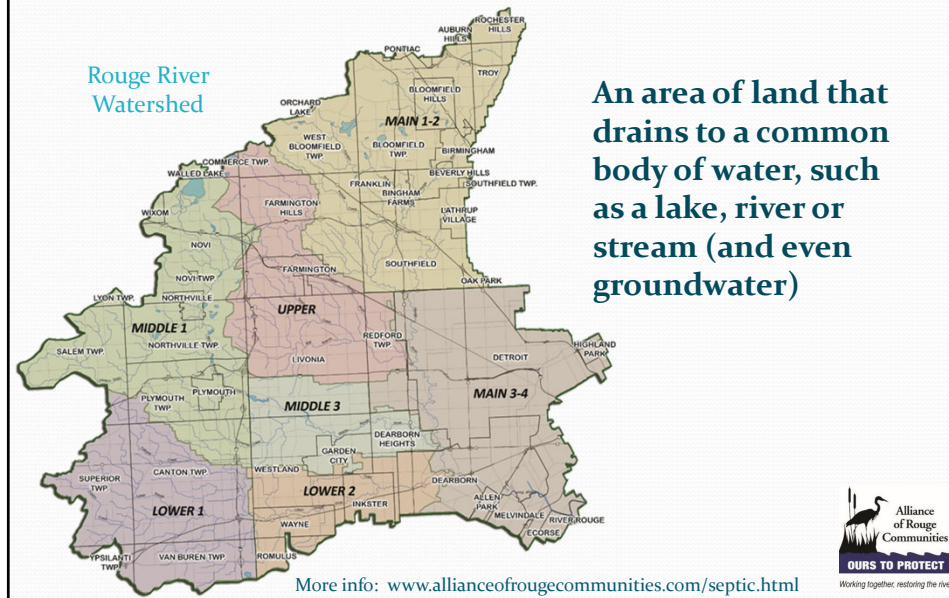
- Non-profit organization
  - Local municipalities
  - Counties
  - Educational institutions
  - Stewardship groups
- Work cooperatively to meet water quality requirements mandated by State's stormwater permit
- Funded by membership dues from local governments and supported by grants

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



3

## We all live in a watershed



4

## We all live in a watershed

- Pollutants travel from upstream to downstream areas
- As land becomes altered or developed it increases the amount of pollutants traveling



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



5

## What is stormwater?

- Water that originates during rain events and snow/ice melt
- Carries the pollutants
- Travels over land or through storm drains, catch basins or pipes (called outfalls)
- Ends up untreated in our rivers, streams and lakes



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



6

## What is wastewater?

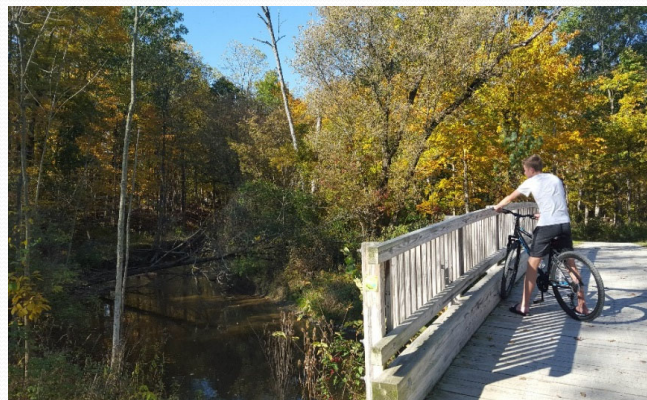
- Water that has been used in the home, in a business, or as part of an industrial process
- Is treated before it is released back to the environment

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



7

## Why protect water quality?



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



8



## What does Improved water quality mean?



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



9

## Sources of bacteria (*E. coli*)

- Humans
  - Illicit connections
  - Failing septic systems
  - Sanitary sewer overflows
- Pets
  - Lack of waste pick-up
- Wildlife
  - Don't feed them



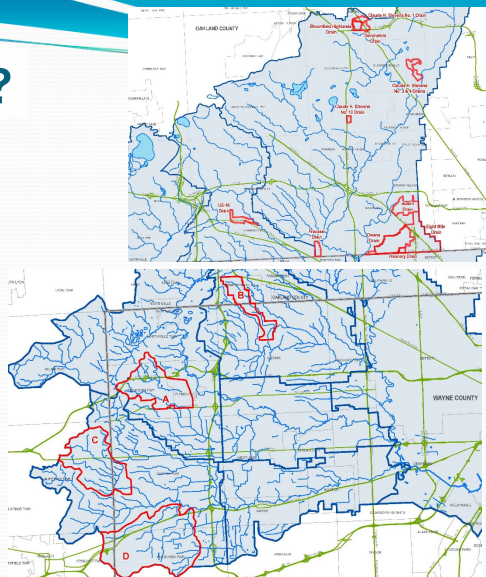
More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



10

## Where to begin?

- Priority areas with the:
  - Highest *E. coli* in dry conditions, and
  - Human sources suspected based on DNA testing

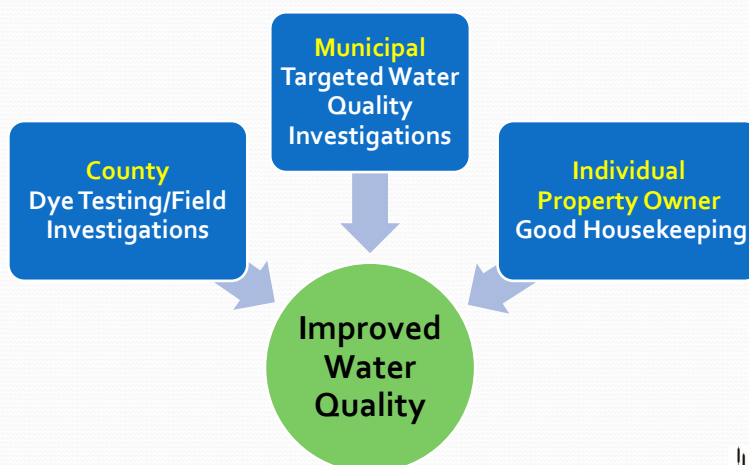


More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



11

## Bacteria improvement efforts



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



12

## What to look for in sewered areas



*Sanitary debris  
in a storm sewer*



*Soap suds  
in a storm sewer*



*Gray/black staining  
in a storm sewer*

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

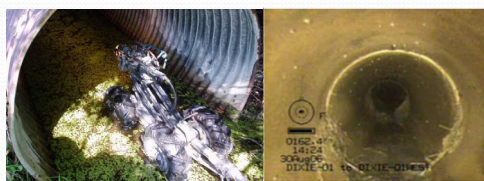


13

## How we find these problems



*Dye testing*



*Televising sewers*



*Smoke testing*

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

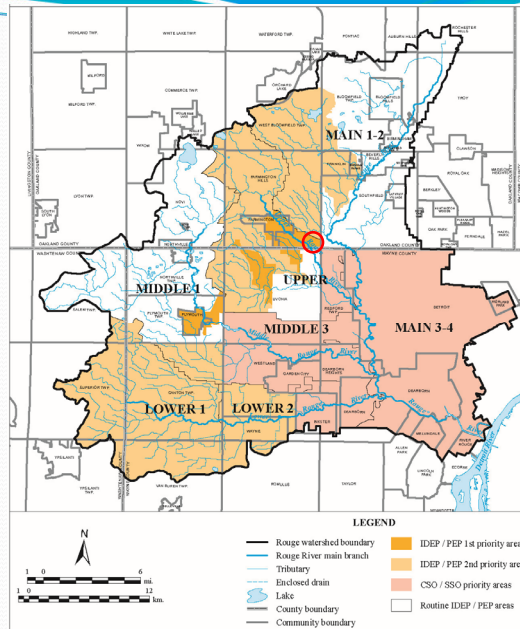


14



## Oakland County Investigations

- Objective:
  - Locate illicit connections in SE Farmington Hills
- Using TV inspection, smoke & dye testing
- Edits to sewer GIS
- Site plans and cost estimates for corrections



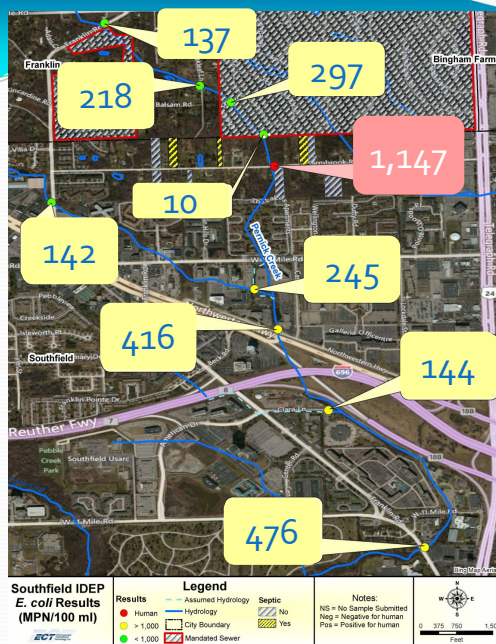
More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

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15

## Example IDEP Investigation

- Human DNA
  - *E. coli*: 1,000 – 2,000
- Likely sources
  - Septic systems
  - Illegal dumping
- Local follow-up:
  - Dye test septic
  - Advertise pollution hot line
  - Septics Workshop



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

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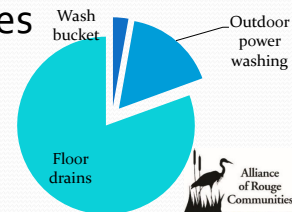
16

## Wayne County Municipal Facility Dye Testing

**Objective: Make sure our houses are in order**

- 108 Municipal facilities inspected
  - Bloomfield Twp, Canton Twp, Dearborn Heights
  - Farmington Hills, Garden City, Livonia, Plymouth
  - Northville, Melvindale, Farmington, Southfield, Wayne, Westland
- 24 Facilities with illicit discharges
- 42 Illicit discharges identified

No sewage discharges identified



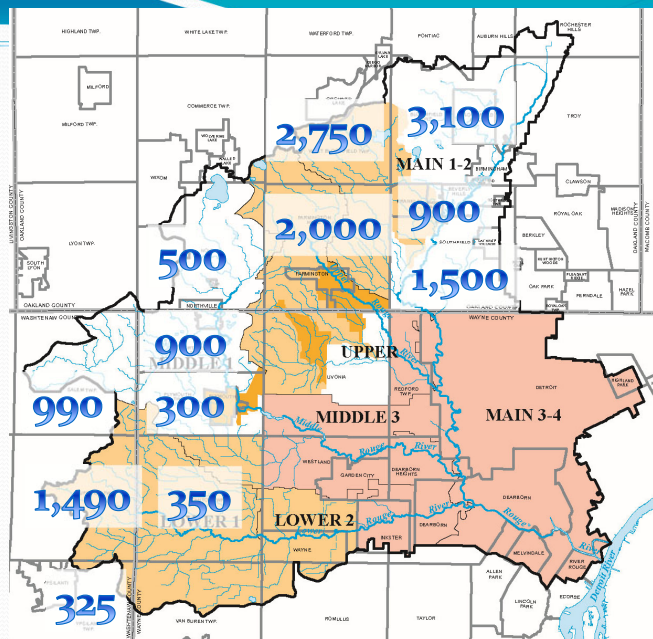
More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



17

## Number of septics in the Rouge watershed

- 19,500 mostly in
  - Bloomfield Twp.
  - West Bloomfield
  - Farmington Hills
  - Southfield
  - Superior Twp.



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



18

## What we look for in septic areas

*Wet lawn  
without rain*



*Cheater pipes to a ditch*



*Gray/black staining in a ditch*

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



19

## Wayne County On-Site Sewage Disposal System (OSDS) Investigations Summary

- OSDS Evaluation and Maintenance ordinance adopted in 1999
- Requires inspection of OSDS regularly and at time home is sold
- 255 failing OSDS identified through 2014
- Prevents 87 million gallons from polluting the Rouge River

2014 Wayne County OSDS Summary		
Type of OSDS Inspection	Number of Inspections	Number of Failures
Time of Sale	133	59
Number of Complaints	1	1
<b>Totals</b>	<b>134</b>	<b>60</b>
Estimated pollutant reduction (lbs/year)		<b>46,745</b>
Estimated gallons of flow removed/year		<b>4,233,544</b>

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



20



## Pollution Complaint Lines

Michigan's Pollution Alert System	800-292-4706
Macomb County	877-679-4337 IDEP@macombcountymi.gov
Oakland County	248-858-0931
St. Clair County	877-504-SWIM
Washtenaw County	734-222-3880
Wayne County	888-223-2363

### Illegal Dumping What to Do and Who to Call



Emergencies  
9-1-1



Non-emergency issues  
(734) 222-3880

[www.ewashtenaw.org](http://www.ewashtenaw.org)



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

21

**Meghan Price**

*Environmental Consulting & Technology, Inc.*

[mprice@ectinc.com](mailto:mprice@ectinc.com)



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



22



## Septic System Maintenance Webinar

**Alice Bailey, P.E.**  
Environmental Engineer

For more information visit:  
[www.allianceofrougecommunities.com](http://www.allianceofrougecommunities.com)



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## Septic System Maintenance Workshop

- What is a septic system and how does it work
- How to care for and maintain a septic system
- How to recognize signs of failure
- Overview of ordinance requirements



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## Why are we concerned about septic systems?



Failing septic systems are suspected to be a significant contributing source of pollution in the Rouge River Watershed.

Septic systems are often neglected and not routinely maintained after the initial installation.

A malfunctioning system can contaminate our waterways and groundwater supply.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



25

## What is a septic system?



Individual wastewater treatment systems that use the soil to treat small wastewater flows, usually from individual homes.

Treats the wastewater from household plumbing by bathrooms, kitchen drains, dishwasher and laundry.

Common in rural areas without centralized sewer systems.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



26

## Do you have a septic system?




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You use well water.

---

The waterline coming into your home doesn't have a meter.

---

You show a "\$0.00 Sewer Amount Charged" on your water bill.

---

Your neighbors have a septic system.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



27

## How to find your septic system

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Look on your home's "as built" drawing.

---

Checking your yard for lids and manhole covers.

---

Contacting a septic inspector/pumper to help you locate it.



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

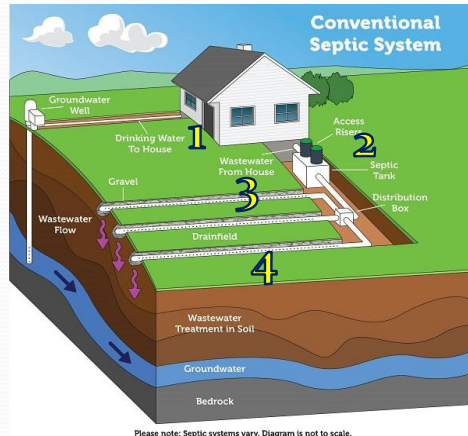


28



## How it works- Overview

1. Drainage Pipe
2. Septic Tank
3. Drain Field
4. Soils



[www.epa.gov](http://www.epa.gov)

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

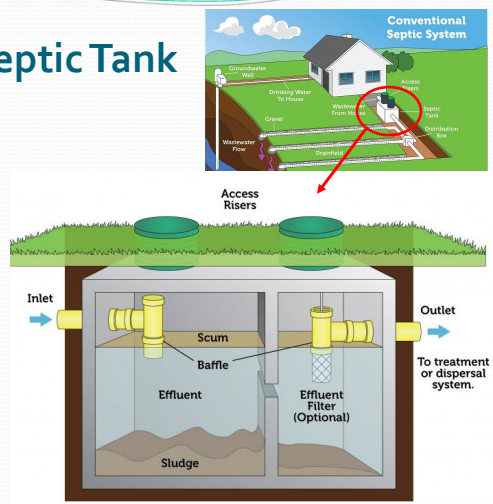


29

## How it works- Septic Tank

Temporarily holds wastewater in the septic tank to separate heavy solids and lighter scum, this process is called primary treatment.

The solids are stored in the tank and are decomposed by bacteria and later removed by a professional septic tank pumper.



[www.epa.gov](http://www.epa.gov)

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



30

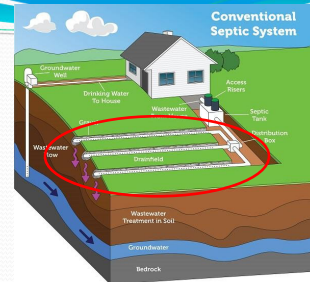


## How it works- Discharge

Once the wastewater leaves the tank it flows into a distribution box which separates this flow evenly into a network of drainfield trenches.

Drainage holes at the bottom of each line allow the wastewater to drain into gravel trenches for temporary storage.

This effluent slowly seeps into the subsurface soil where it is further treated and purified. This process is known as secondary treatment.



[www.epa.gov](http://www.epa.gov)



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



31

## A properly functioning septic system will:



Help protect and enhance the quality of the County's surface and groundwater resources.

Protect public health from disease causing organisms and nuisance conditions.

Properly dispose of your wastewater.

Preserve the County's waterways, including the Rouge River, for recreational enjoyment.

Saves you money!

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



32

## Caring for your septic system

As the homeowner, it is your responsibility to maintain the septic system.

### Neglect or abuse of your septic system can cause it to fail and:

Can cause a serious health threat to your family and neighbors.

Can degrade the environment, especially lakes, streams and groundwater.

Can reduce the value of your property.

Can be very expensive to repair.

Can put thousands of water supply users at risk if you live in a public water supply watershed and fail to maintain your system.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



33

## Caring for your septic system

- ✓ Inspect and Pump
- ✓ Watch for signs of failure
- ✓ Use water efficiently
- ✓ Take care what is sent down the drain.  
"Think at the Sink"
- ✓ Take care what is flushed.  
"Don't overload the commode."
- ✓ Landscape properly

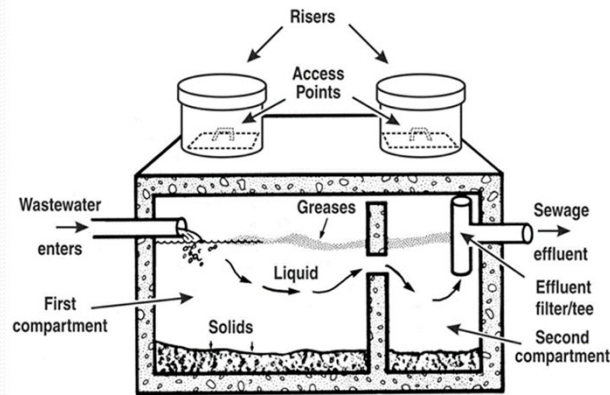
More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



34

## Inspect and Pump

The accumulated solids in the bottom of the septic tank should be pumped out every 3-5 years to prolong the life of the system.



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



35

## Additives

Companies make a lot of claims to sell their products, even promoting and claiming that no pumping is ever required.

The effectiveness of additives is not always agreed on (break down sludge).

We already give tanks all they need.

Every tank needs periodic pumping.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



36

## Watch for signs of failure

Sewage surfacing over the drainfield (especially after storms).

Sewage back-ups in the house.

Lush, green growth over the drainfield.

Slow draining toilets or drains.

Sewage odors.



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



37

## Use water efficiently



Leaky fixtures can add hundreds of extra gallons of water to your system every day.

Overloading with water is a leading cause of failure.



Replacing existing toilets with high-efficiency models is an easy way to reduce the amount of household water entering your septic system.

Faucet aerators and high-efficiency showerheads help reduce water use as well as the volume of water entering your septic system.



Washing small loads of laundry on the large-load cycle wastes water and energy. Use the proper load size to reduce water waste.

Spread your laundry task throughout the week instead of all on one day to allow your septic tank time to adequately treat waste and reduce the possibility of flooding your drainfield.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

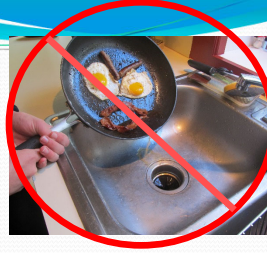


38



## Take care at the drain

Whether you're at the kitchen sink, bathtub or utility sink:



Avoid chemical drain openers for clogged drains, use boiling water or a drain snake.

Never pour cooking oil or grease down the drain.

Never pour oil-based paints, solvents or toxic cleaners down the drain.

Eliminate or limit the use of a garbage disposal which will reduce the amount of fats, grease and solids that enter your septic tank and can clog its drainfield.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



39

## Toilets aren't trash cans

Never flush:



Disposable wipes

Feminine hygiene products

Condoms

Dental floss

Diapers

Cigarette butts

Coffee grounds

Cat litter

Household chemicals like gasoline, oil and paint

Pharmaceuticals

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



40

## Use proper landscaping on and around your septic system

Locate your septic tank and drainfield and make sure the area is clear of:

---

Underground sprinkler lines

---

Driveways, decks and patios

---

Sports courts

---

Storage sheds

---

Swing sets, sandboxes

---

Vehicles, swimming pools

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



41

## Use proper landscaping on and around your septic system

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Plant native, drought-tolerant plants.

---

Direct all surface drainage away from the septic system.

---

Use shallow-rooted plants, tree and shrub roots can grow into the drainlines, clogging and breaking them.

---

Avoid water-loving plants and trees.

---

Make sure the tank lid is secure.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



42

## Ordinances

- Find the ordinances that apply to you
- [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

September 16, 1999

**ENROLLED ORDINANCE**  
No. 99-627

AN ORDINANCE to abate water pollution caused by failing on-site sewage disposal systems; to minimize infiltration of seepage from septic systems into the storm water drainage system; to prescribe the powers and duties of the Wayne County Department of Public Health and its Environmental Health Section; to provide for the administration and enforcement of this Ordinance; and to establish penalties for its violation.

**CONTENTS**

<b>CHAPTER 1 GENERAL PROVISIONS</b>	<b>3</b>
Section 101. TITLE	3
Section 102. FINDINGS, POLICIES AND PURPOSES	3
Section 103. EFFECTIVE DATE	4
Section 104. OTHER LEGISLATION	4
Section 105. ADMINISTRATION	5
Section 106. APPLICABILITY	5
Section 107. ADMINISTRATIVE RULES	5
Section 108. FEES AND CHARGES	5
Section 109. SEVERABILITY	6
<b>CHAPTER 2 DEFINITIONS</b>	<b>6</b>
Section 201. GENERAL	6
Section 202. WORDS AND PHRASES	6

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



43

## As a homeowner under the ordinance



Septic tank overflow

Maintain your septic system to prevent failure.

Notify the health department of any known or suspected disposal system failure.

Remedy any disposal system failure.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



44

## Building a house under the ordinance



A site/soil evaluation is required before building a home that is not served by a municipal or centralized sewage treatment facility.

The evaluation, also referred to as a “perk test”, is an assessment performed by the County Environmental Health Department.

The evaluation determines a site’s suitability for installing a new onsite sewage system.

County building inspectors require either proof of municipal sewer connection or a sewage permit before building permits can be issued.

The evaluation must be **completed and approved** before you can construct your sewage system.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



45

## Selling a house under the ordinance



Have your disposal system evaluated by a registered evaluator.

Cooperate with the registered evaluator by providing pertinent information and paying the costs for the evaluation.

Obtain an authorization for sale or transfer prior to closing from the County Health Department

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



46



## What is included in a septic system evaluation



Identification of your septic tank and drainfield locations.

Pumping out of your septic tank at the time of evaluation.

Exposing the drainfield for inspection.

Determining if your disposal system is functioning satisfactorily, is in a state of failure or contains potential failure conditions.

The evaluation may also identify recommendations which may prevent premature failure of your disposal system.

Educational materials are provided as part of the evaluation.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



47

## Disposal system evaluation report



A report must be provided to the owner within a certain number of days of the evaluation.

The registered evaluator must send the report to the health department within a certain time frame of evaluation and a minimum amount of days prior to closing on a sale of a house.

Disposal system evaluation reports are maintained by the County and are available to prospective buyers or other interested persons.

Reports are valid for certain number of months.

More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

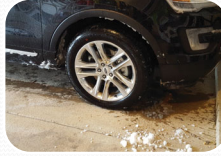


48

## Above and beyond



In your yard



With your  
vehicles



In your  
community



In your business

Alice Bailey, P.E.  
Environmental Consulting & Technology, Inc.  
[abailey@ectinc.com](mailto:abailey@ectinc.com)



More info: [www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)



49

## Questions & thank you!

How did we do? – please take our survey:

[www.surveymonkey.com/r/septicsys](https://www.surveymonkey.com/r/septicsys)



For more information on septic systems and to  
download a copy of the webinar slides visit:

[www.allianceofrougecommunities.com/septic.html](http://www.allianceofrougecommunities.com/septic.html)

If you would like septic system information mailed to  
you, please email your address to:

[info@allianceofrougecommunities.com](mailto:info@allianceofrougecommunities.com)



50

## ARC Septic Workshop Webinar Attendees Summary

<b>Meeting Date</b>	<b>Meeting Duration</b>	<b>Number of Attendees</b>	<b>Meeting ID</b>
November 4, 2019 6:39 PM EST	81 minutes	20	585-412-933

### Details

Name	Email Address	Join Time	Leave Time	Time in Session (minutes)
Alliance of Rouge Communities	gtmgnv@ectinc.com	6:39 PM	8:01 PM	81
Brian		7:13 PM	8:01 PM	47
Brian		7:11 PM	7:13 PM	2
Brian		6:58 PM	7:04 PM	5
Chip	fhfr3impala@gmail.com	6:58 PM	8:00 PM	62
Chris	gtmgnv@ectinc.com	7:10 PM	8:01 PM	50
Cody Buehner		7:14 PM	8:01 PM	46
Jack		7:07 PM	7:15 PM	8
Jason		7:11 PM	7:45 PM	33
Jason		7:53 PM	8:01 PM	7
John Galt		7:45 PM	7:56 PM	11
Kevin		6:53 PM	7:06 PM	12
Lee		7:03 PM	8:01 PM	57
Meghan Price	mprice@ectinc.com	6:39 PM	8:00 PM	81
Mel		7:06 PM	8:01 PM	54
Mike Hahn	mhahn23@hotmail.com	6:54 PM	8:00 PM	65
Reiko McKendry	Reiko@McKendryCompanies.com	7:19 PM	8:00 PM	40
Ryan & Melissa		7:04 PM	7:07 PM	3
Steven GEPPERT	sgeppertco@sprintmail.com	6:54 PM	7:52 PM	57
Tennille	gtmgnv@ectinc.com	7:04 PM	8:01 PM	56
Tim		6:43 PM	7:55 PM	71
Tim Bade		6:54 PM	7:03 PM	8
steven		6:59 PM	7:52 PM	53

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November 5 at 12:36 PM · 🌐

Did you miss our webinar? View the recording of the ARC's Septic System Maintenance Webinar that originally aired on 11/4/19. Visit our website for more information at <http://www.allianceofrougecommunities.com/septic.html>

**How to find your septic system**

Septic System Maintenance Recorded Webinar  
57:32

▶

🌱

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November 5 at 12:36 PM · 🌐

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**Alliance of Rouge Communities**  
November 5 at 12:36

## QUESTIONS DURING WEBINAR

**Chat Log**     **C:\Users\tnewsome\Documents\ChatLog ARC Septic Workshop Webinar 2019\_11\_04 20\_01.rtf**

**Reiko McKendry (to Everyone):** 7:26 PM: It says that this session is being recorded. Would I have access to it later? If so, how?

**Reiko McKendry (to Everyone):** 7:28 PM: I could like to make the recording/slides available to our Homeowners' Association President who can, in turn, make it available to all other association members.

**Reiko McKendry (to Everyone):** 7:28 PM: \*would like to

**Mel (to Everyone):** 7:50 PM: question

**Mike Hahn (to Everyone):** 7:51 PM: how do we know if we have a conventional or engineered septic system?

**Mel (to Everyone):** 7:52 PM: We live on a dirt road with a septic system in Farmington Hills - how can we propose switching to a nearby sewer system?

**Chip (to Everyone):** 7:53 PM: does a replacement septic need to be an engineered system?

**Reiko McKendry (to Everyone):** 7:54 PM: Today's webinar content, when made available tomorrow, would it indicate today's date - so it's obvious for me to find it?

**Mel (to Everyone):** 7:56 PM: ty

**Jason (to Everyone):** 7:56 PM: Are there additional risks with a septic system during extreme cold (polar vortex)? Should we do anything to protect the field?

#1

COMPLETE

**Collector:** Web Link 1 (Web Link)  
**Started:** Monday, November 04, 2019 8:00:45 PM  
**Last Modified:** Monday, November 04, 2019 8:02:38 PM  
**Time Spent:** 00:01:52  
**IP Address:** 97.69.163.77

---

Page 1: Current Activities

**Q1** What community do you live in?

Farmington Hills

---

Page 2

**Q2** How did you hear about tonight's webinar?

Other (please  
specify):  
City sent out an email to the community.

---

Page 3

**Q3** How old is your septic system?

**15+ years  
old**

---

Page 4

**Q4** Do you know the location of your septic system on your property?

**Yes**

---

Page 5

**Q5** How often do you have your septic system pumped out?

**Every 1-2  
years**

---

Page 6

**Q6** Which type of presentation do you prefer?

**Webinar**

---

Page 7

## Septic System Maintenance Webinar Survey

**Q7** Did this webinar provide you with the information you were expecting? **Yes**

---

Page 8

**Q8** Did you learn anything new from this webinar? **Yes**

---

Page 9

**Q9** Based on tonight's webinar, do you intend to change how you care for your septic system? **No**

---

Page 10

**Q10** Are you interested in the ARC doing a webinar on any of the below topics in the future?

**Benefits of green infrastructure including rain gardens and managing lake/river-front land to protect water quality.**

,

**How business practices can protect water quality.**

---

Page 11

**Q11** If you would like to receive more information on septic system maintenance please provide your address and we will mail you additional handouts.

Name	<b>Jason Cerbin</b>
Community	<b>Farmington Hills</b>
Address	<b>34388 Quaker Valley Road</b>
City/Town	<b>Farmington Hills</b>
State/Province	<b>MI</b>
ZIP/Postal Code	<b>48331</b>

---



#2

COMPLETE

**Collector:** Web Link 1 (Web Link)  
**Started:** Monday, November 04, 2019 7:49:16 PM  
**Last Modified:** Monday, November 04, 2019 8:03:45 PM  
**Time Spent:** 00:14:29  
**IP Address:** 73.145.55.223

---

Page 1: Current Activities

**Q1** What community do you live in?

Bloomfield Township

---

Page 2

**Q2** How did you hear about tonight's webinar?

Other (please  
specify):  
Nextdoor app

---

Page 3

**Q3** How old is your septic system?

10-15 years  
old

---

Page 4

**Q4** Do you know the location of your septic system on your property?

Yes

---

Page 5

**Q5** How often do you have your septic system pumped out?

Every 5+  
years

---

Page 6

**Q6** Which type of presentation do you prefer?

Webinar

---

Page 7

## Septic System Maintenance Webinar Survey

**Q7** Did this webinar provide you with the information you were expecting? **Yes**

---

Page 8

**Q8** Did you learn anything new from this webinar? **Yes,**  
If yes, please explain:  
That it is covering a larger community than our own township.

---

Page 9

**Q9** Based on tonight's webinar, do you intend to change how you care for your septic system? **No**

---

Page 10

**Q10** Are you interested in the ARC doing a webinar on any of the below topics in the future?

**Watershed stewardship education and how you can project water quality at home.**

,

**Benefits of green infrastructure including rain gardens and managing lake/river-front land to protect water quality.**

,

**How business practices can protect water quality.**

---

Page 11

**Q11** If you would like to receive more information on septic system maintenance please provide your address and we will mail you additional handouts. **Respondent skipped this question**

---

**APPENDIX E**  
**ARC MEMBER COMMUNITIES HOSTING/PROMOTING**  
**WORKSHOPS & PRESENTATIONS/VOLUNTEER/MONITORING ACTIVITIES**

EVENT	TOPIC	DATE	ARC COMMUNITY	ROUGE RIVER SUBWATERSHED						
				Main 1-2	Main 3-4	Upper	Middle 1	Middle 3	Lower 1	Lower 2
U. S. Forest Service Tour	Benefits to ARC communities collaboration to plant trees in the watershed	7/22/2017	Canton Twp.						1	
Full ARC meeting	Fishway at The Henry Ford	8/3/2017	Novi			1	1			
Senator Stabenow GLRI projet tour	Wayne Rd. Dam removal success	8/4/2017	Wayne							1
Septic System Maintenance	Septic System	9/21/2017	Farmington Hills	1		1	1			
Stewards of The Rouge River	Overall stewardship activities	10/11/2017	Canton Twp.						1	
Stewards of The Rouge River	Overall stewardship activities	10/26/2017	West Bloomfield Twp.	1		1				
Full ARC meeting	Update on ARC activities and grants	11/21/2017	Canton Twp.						1	
IDEP Training & Introduction	Training & introduction	1/9/2018	Troy	1						
Spring Palooza	Volunteer/community event	4/6/2018	Novi			1	1			
Earth Day Celebration	Volunteer/community event	4/22/2018	Farmington Hills	1		1	1			
Full ARC meeting	Southeast Michigan Water Resources Plan	6/20/2018	Lathrup Village	1						
Founders Festival	Volunteer/community event	7/18/2018	Farmington	1		1				
Cranbrook Water Festival	Water festival for 5th grade Oakland Co schools	9/11/2018	Bloomfield Hills	1						
Full ARC meeting	Update on ARC activities and grants	11/19/2018	Bloomfield Hills	1						
Earth Day Celebration	Volunteer/community event	4/18/2019	West Bloomfield Twp.	1		1				
Lower Rouge Water Trail Public Open House	Public open house on water trail	4/11/2019	Westland					1		1
Jacobs Drain Earth Day Cleanup	Volunteer/community event	4/24/2019	West Bloomfield Twp.	1		1				
Lower Rouge River Water Quality	ARC water quality sampling summary	9/19/2019	Westland					1		1
Michigan Water School	Environmental issues affecting municipal leaders to improve conditions	9/26-9/27/19	Northville Twp.			1	1			
Fishing Derby	Volunteer/community event	5/4/2019	Southfield	1						
MACDC Southeast District	Drain Commissioners informational items and Oxbow tour	5/23/2019	Henry Ford College		1					
Southfield Corridor ditch/culvert cleanup	Volunteer/community event	6/1/2019	Lathrup Village	1						
Summer volunteer days at Heritage Park	Volunteer/community event	7/20/2019	Farmington Hills	1		1	1			
Septic System Maintenance Webinar	Septic System & stewardship activities	11/4/2019	Webinar	1	1	1	1	1	1	1
Oakland County Stormwater Summit	Green infrastructure and other sustainability practices, funding and implementation mechanisms, legislative updates, municipal infrastructure project reviews	10/4/2019	Southfield	1						
Full ARC meeting	Update on ARC activities and grants	11/20/2019	Inkster							1
Cranbrook Water Festival	Water festival for 5th grade Oakland Co schools	9/12/2019	Bloomfield Hills	1						
<b>Total Promoted/Hosted Events</b>				<b>16</b>	<b>2</b>	<b>11</b>	<b>7</b>	<b>3</b>	<b>4</b>	<b>5</b>

**Friends of the Rouge  
Annual Reports for 2018 & 2019**

# 2018

## Annual Report for the Alliance of Rouge Communities



Friends of the Rouge

January 1, 2018 through

December 31, 2018

**FRIENDS OF THE ROUGE  
ANNUAL REPORT 2018  
(January 1 through December 31, 2018)  
For the  
ALLIANCE OF ROUGE COMMUNITIES**

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<b>Rouge Education Project</b>	<b>Pages 1-5</b>
<b>Benthic Macroinvertebrate Monitoring</b>	<b>Page 6</b>
<b>Frog and Toad Survey</b>	<b>Pages 7-8</b>
<b>Fish Monitoring</b>	<b>Page 9</b>
<b>Water Trail</b>	<b>Page 10</b>
<b>Rouge Rescue</b>	<b>Pages 11-12</b>
<b>River Restoration</b>	<b>Pages 13-16</b>
<b>Local and Regional Outreach</b>	<b>Page 17</b>

Friends of the Rouge  
2018 Annual Report for ARC  
ROUGE EDUCATION PROJECT  
January 1, 2018 through December 31, 2018

Schools - Spring Monitoring 2018				
Community	School	# Teachers	# Students	Monitoring Location
Allen Park	Inter-City Baptist School	1	55	Melvindale Civic Center Arena, Melvindale; Goudy Park, Wayne
Beverly Hills	Detroit Country Day Middle School	6	385	School grounds
Canton	Achieve Charter Academy	3	88	Plymouth Township (McClumpha) Park, Plymouth Township
Canton	Crescent Academy International	3	34	Lower Rouge Recreational Trail, Canton
Canton	Plymouth High School	1	70	School grounds
Canton	Tonda Elementary School	4	106	School grounds
Dearborn Heights	Crestwood High School	1	12	Parr Recreation Area, Wayne Co Parks/Hines Dr, Dearborn Heights
Dearborn Heights	Tawheed Center School	3	24	Parkland Park, Dearborn Heights
Detroit	Academy of the Americas High School	1	22	Sunnyside Farms, Detroit
Detroit	Clippert Multicultural Honors Academy	2	45	Bell Creek Park, Redford
Detroit	Medicine & Community Health Academy at Cody	2	30	Ashcroft-Sherwood Drain/Joe Prance Park, Detroit
Detroit	Ronald Brown Academy	2	32	Lola Valley Parkway, Redford
Farmington Hills	Power Middle School	2	75	Gill Elementary School grounds
Farmington Hills	Steppingstone School	2	11	Shiawassee Park, Farmington Hills
Harper Woods	Chandler Park Academy High School	2	17	Heritage Park, Farmington Hills
Harper Woods	Tyrone Elementary School	2	14	Rotary Park, Novi
Lathrup Village	MacArthur K-8 University Academy	1	35	Telegraph / Civic Center Dr, Southfield
Livonia	Emerson Middle School	1	31	Bicentennial Park, Livonia
Redford	Thurston High School	1	19	Woodbine / Graham Rds, Redford
Salem	Salem Elementary School	3	68	School grounds
Troy	Smith Middle School	2	10	Stage Nature Center, Troy
Troy	Troy College & Career High School	1	17	Firefighter's Park, Troy
Troy	Troy High School	1	85	Coolidge / Long Lake Rds (detention pond), Troy
Walled Lake	Mary Helen Guest Elementary School	3	72	Ella Mae Power Park, Novi
Warren	Lincoln Senior High School	1	35	Helm's Haven, Wayne Co Parks/Hines Dr, Dearborn Heights
Westland	Huron Valley Lutheran High School	1	24	Nankin Mill, Wayne Co Parks/Hines Dr, Westland
Wyandotte	Roosevelt High School	3	42	Plymouth Township (McClumpha) Park, Plymouth Township
<b>TOTALS</b>		<b>55</b>	<b>1458</b>	



Friends of the Rouge  
2018 Annual Report for ARC  
ROUGE EDUCATION PROJECT  
January 1, 2018 through December 31, 2018

Schools - Fall Monitoring 2018				
Community	School	# Teachers	# Students	Monitoring Location
Allen Park	Inter-City Baptist High School	1	25	Ford Field Park, Dearborn / Goudy Park, Wayne
Bloomfield Hills	Birmingham Covington School	8	215	Linden Park, Birmingham
Canton	Tonda Elementary School	4	95	School grounds
Dearborn Heights	Crestwood High School	1	140	Parr Recreation Area, Wayne Co Parks/Hines Dr, Dearborn Heights
Farmington Hills	Power Middle School	2	48	Gill Elementary School grounds
Farmington Hills	Steppingstone School	1	2	Shiawassee Park, Farmington Hills
Harper Woods	Chandler Park Academy High School	2	24	Heritage Park, Farmington Hills
Redford	Thurston High School	1	22	Woodbine / Graham Rds, Redford
Troy	Troy High School	1	68	Coolidge / Long Lake Rds (detention pond), Troy
<b>TOTALS</b>		<b>21</b>	<b>639</b>	

Workshops - Returning Teacher Refresher		
January 25, 2018 - 5:00-7:00PM		
University of Michigan-Dearborn, Environmental Interpretive Center, Room 118, Dearborn		
Community	Affiliation	# Teachers
Canton	Crescent Academy International	1
Canton	Crescent Academy International	1
Canton	Crescent Academy International	1
Detroit	Clippert Multicultural Honors Academy	1
Harper Woods	Tyrone Elementary School	1
Harper Woods	Tyrone Elementary School	1
Troy	Smith Middle School	1
<b>TOTALS</b>		<b>7</b>

Friends of the Rouge  
2018 Annual Report for ARC  
ROUGE EDUCATION PROJECT  
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Workshops - Advanced Chemical Training			
March 10, 2018 - 9:00AM-2:30PM Detroit Country Day Middle School, Beverly Hills			
Community	Affiliation	# Teachers	# Volunteers
Canton	Crescent Academy International	2	
Canton	Volunteer		1
Clinton Twp	University of Detroit Mercy		1
Detroit	Academy of the Americas High School	1	
Detroit	Medicine & Community Health Academy at Cody	1	
Farmington Hills	Steppingstone School	1	
Livonia	University of Detroit Mercy		1
Livonia	Volunteer		1
Plymouth	Eastern Michigan University		1
Redford	Thurston High School	1	
Roseville	Wayne State University		1
Shelby Twp	Oakland University		1
South Lyon	Eastern Michigan University		1
Troy	Troy College & Career High School	1	
<b>TOTALS</b>		<b>6</b>	<b>8</b>

Workshop - Bug Identification & Sampling Techniques			
March 24, 2018 - 9:00AM - 1:30PM Stage Nature Center, Troy			
Community	Affiliation	# Teachers	# Volunteers
Beverly Hills	Detroit Country Day Middle School	1	
Detroit	Academy of the Americas High School	1	
Detroit	Medicine & Community Health Academy at Cody	1	
Redford	Thurston High School	1	
Shelby Twp	Oakland University		1
St. Clair Shores	Wayne State University		1

Friends of the Rouge  
2018 Annual Report for ARC  
ROUGE EDUCATION PROJECT  
January 1, 2018 through December 31, 2018

<b>Troy</b>	Troy College & Career High School	1	
<b>Warren</b>	Wayne State University		1
<b>TOTALS</b>		<b>5</b>	<b>3</b>

<b>Workshop - Bug Identification &amp; Sampling Techniques</b>			
April 7, 2018 - 9:00AM - 1:30PM			
Plymouth Township Hall/Plymouth Township (McClumpha) Park, Plymouth Township			
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>	<b># Volunteers</b>
<b>Brighton</b>	University of Detroit Mercy		1
<b>Dearborn</b>	Henry Ford College		1
<b>Dearborn Heights</b>	Tawheed Center School	3	
<b>Grand Rapids</b>	University of Detroit Mercy		1
<b>Livonia</b>	Volunteer		1
<b>Nothville</b>	University of Detroit Mercy		1
<b>Shelby Twp</b>	University of Detroit Mercy		1
<b>West Bloomfield</b>	University of Detroit Mercy		1
<b>TOTALS</b>		<b>3</b>	<b>7</b>

<b>Workshops - New Teacher Orientation</b>		
December 8, 2018 - 9:00AM - 12:00PM		
University of Michigan-Dearborn, Environmental Interpretive Center, Room 118 Dearborn		
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>
<b>Canton</b>	Crescent Academy International	1
<b>Dearborn</b>	O.L. Smith Middle School	1
<b>Dearborn</b>	Fordson High School	1
<b>Farmington Hills</b>	Farmington STEAM Academy	4
<b>TOTALS</b>		<b>7</b>

Friends of the Rouge  
2018 Annual Report for ARC  
ROUGE EDUCATION PROJECT  
January 1, 2018 through December 31, 2018

Workshops - How to Engage Students in Environmental Action		
December 19, 2018 - 5:00PM - 8:00PM Friends of the Rouge Office, Plymouth		
Community	Affiliation	# Teachers
Beverly Hills	Detroit Country Day Middle School	1
Canton	Crescent Academy International	1
Livonia	Wayne RESA	1
Redford	Thurston High School	1
<b>TOTALS</b>		<b>4</b>

Lessons, Water Festivals, & Conferences - 2018
<b>Conference</b>
<i>Earth Force Environmental Action Conference</i>
July 23-25, 2018: Burgess Shadbush Nature Center, Shelby Twp
<b>Rouge River Water Festival</b>
<i>DO Limbo</i>
September 12, 2018: Cranbrook Institute of Science

## 2018 Report for ARC

## BENTHIC MACROINVERTEBRATE MONITORING

January 1, 2018 through December 31, 2018

Event	Stonefly Search	Spring Team Leader Training	Spring Bug Hunt	Spring Bug Identification	Canton	Fall Bug Hunt	Fall Bug ID	Fall Additional Sampling
Date	1/20/2018	4/7/2018	4/21/2018	5/3/2018	6/2/2018	10/13/2018	10/29/2018	10/26/2018
Time	9am-3pm	9am-2pm	9am-4pm	5pm-7pm	9am-4pm	9am-4pm	5pm-7pm	1pm-3pm
City/Township	Dearborn	Plymouth Twp	Dearborn	Dearborn	Canton	Livonia	Dearborn	Dearborn Detroit
Location	UM-D EIC	Pymouth Twp Hall and Park	UMD-EIC	UMD-EIC	Lower Recreation Trail	Schoolcraft College	UMD-EIC	Fordson Island Oxbow
Attendee Residency								
Ann Arbor	2					4		
Belleville			1			1		
Beverly Hills	3		2			3	1	1
Bloomfield Hills						1		
Brighton						1		
Brownstown Twp		1						
Canton	4		4		1	4		
Dearborn	7	1	4		1	2		
Dearborn Heights	2	1	1	1	1	1	1	1
Detroit	7		2		1	4	1	1
Erie						4		
Farmington	1							
Farmington Hills	3		2	1				
Garden City	1		1			1		
Grosse Pte			1			1		
Grosse Pointe Pk	1		1					
Hamtramck	1		1	1		1		
Hartland	1		1			1		
Lake Orion	1							
Lansing	1							
Lincoln Park	2							
Livonia	5		1			3	2	
Midland			1					
Mount Clemens			2			2		
Northville	5		1	1		4	2	
Novi	1	2	2					
Oak Park			1					
Plymouth	8	1	2	1		1	1	
Redford	3		2			2		
Royal Oak	1	1	4		1	5		
Saint Clair Shores		1	1	1		3		
Shelby Twp	1							
Southfield	1							
Sterling Heights	1		2		1	1		
Trenton	1							
Troy	1							
Warren	1		1			1	2	
Wayne			7					
West Bloomfield	1							
Westland	2	2	5	1		4		
Wixom						2		
Ypsilanti			1					
Unknown	8		21			13		
TOTALS	77	10	75	7	6	70	10	3

## 2018 Report for ARC

## FROG AND TOAD SURVEY

January 1, 2018 through December 31, 2018

Event	Frog & Toad Survey Training Workshop	Frog & Toad Survey Training Workshop	Frog & Toad Survey Training Workshop	Group Listen	Surveyors
Date	2/17/2018	3/10/2018	3/17/2018	4/6/2018	
Time	10am-12pm	10am-12pm	10am-12pm	7-8 pm	
City/Township	Canton	Farmington Hills	Livonia	West	
Location	Summit	City Hall	Library	Preserve	
Ann Arbor	1				
Belleville		1			1
Beverly Hills		2			
Birmingham					2
Bloomfield Hills		2	1		4
Bloomfield Twp					2
Brownstown Twp			1		
Canton	28	3	8		10
Dearborn	2	3			
Dearborn Heights	1	1	1		2
Detroit		2	2		2
Eastpointe			1		
Farmington		3	3		3
Farmington Hills		13	2		2
Garden City	1				
Hamtramck		1			
Hazel Park			1		1
Huntington Woods		2			
Livonia		1	13		5
Melvindale		1			2
Milan	1				
Mount Clemens		2			
New Boston	1				
New Hudson			1		
Northville	2	4	7		8
Novi	1	2	4	2	1
Oak Park					1
Plymouth	3		8		5
Plymouth Township					1
Redford		2	1		4
Romulus		2			
Royal Oak	1	1			1
Southfield		1			2
Southgate		3	1		
Troy					3
Trenton	1				
Walled Lake					1
Waterford		4			1
Wayne	3				

Friends of the Rouge  
2018 Report for ARC  
FROG AND TOAD SURVEY  
January 1, 2018 through December 31, 2018

Page 8

Event	Frog & Toad Survey Training Workshop	Frog & Toad Survey Training Workshop	Frog & Toad Survey Training Workshop	Group Listen	Surveyors
Date	2/17/2018	3/10/2018	3/17/2018	4/6/2018	
Time	10am-12pm	10am-12pm	10am-12pm	7-8 pm	
City/Township	Canton	Farmington Hills	Livonia	West	
Location	Summit	City Hall	Library	Preserve	
West Bloomfield	1	7	2		2
Westland		4	6		4
White Lake		2			
Unknown		1	1	13	
<b>TOTALS</b>	<b>47</b>	<b>70</b>	<b>64</b>	<b>15</b>	<b>70</b>

2018 Blocks Surveyed	
Subwatershed	# blocks surveyed
Main 1-2	32
Upper	16
Middle 1	32
Lower 1	29
Lower 2	7
Middle 3	2
Main 3-4	7
<b>TOTAL</b>	<b>125</b>



Friends of the Rouge  
2018 Report for ARC  
FISH MONITORING

Page 9

January 1, 2018 through December 31, 2018

Spring Fish Surveys									
Date	4/30/18	5/5/18	5/11/18	5/25/18	5/29/18	6/1/18	6/14/18	6/22/18	6/26/18
City/Township	Superior Township	Canton	Canton	Wayne	Inkster, Dearborn	Southfield	Farmington Hills	Southfield	Northville
Attendee Residency									
Beverly Hills				1	1		1	1	1
Dearborn Heights	1	1	1	1		1	1	1	1
Farmington Hills							1		
Ferndale							1		
New Baltimore		1		1	1	1	1	1	1
Northville	2	1	2	1	2	1	1	1	1
Royal Oak	1	1	1	1	1	1	1	1	1
Sterling Heights	1	1	1	1	1	1	1	1	1
Ypsilanti	2								
<b>TOTALS</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>6</b>

Fall Fish Surveys									
Date	8/16/18	8/17/18	8/23/18	8/24/18	8/25/18	8/29/18	9/8/18	9/14/18	9/28/18
City/Township	Superior Twp/Canton	Canton	Wayne	West Bloomfield	Wayne	Bloomfield Twp	West Bloomfield	Canton/Inkster /Dearborn	Detroit
Attendee Residency									
Ann Arbor	1				2				
Beverly Hills	1			1	1	1	1	1	1
Bloomfield Hills							2		
Dearborn Heights		1	1	1	1	1	1	1	1
Detroit									1
New Baltimore						1	1		
Northville		2		1	1	1	1		2
Royal Oak	1	1	1	1	1	1	1	1	1
Southgate			1	1	1			1	
Sterling Heights	1	1	1	1	1	1	1	1	1
<b>TOTALS</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>5</b>	<b>7</b>

**Friends of the Rouge**  
**2018 Report for ARC**  
**ROUGE RIVER WATER TRAIL**  
**January 1, 2018 through December 31, 2018**

Date	1/18/18	2/15/18	3/21/18	4/19/18	5/9/18	5/17/18	6/5/18	7/19/18	8/22/18	9/15/18	9/20/18	9/25/18	9/29/18	10/18/18	10/27/18	11/15/18	12/13/18
Event	WDM Work Group	Committee Meeting	Committee Meeting	Committee Meeting	Planning	Committee Meeting	Public Meeting	Committee Meeting	WDM Work Group	Industrial Rouge Paddle	Committee Meeting	Detroit Zoo Work Day	Logjam Training	WDM Work Group	Chainsaw Safety Training	Committee Meeting	Committee Meeting
City/Township	Westland	Westland	Westland	Westland	Plymouth	Westland	Westland	Westland	Westland	Melvindale Dearborn Detroit River Rouge	Westland	Dearborn	Wayne	Westland	Canton	Westland	Westland
Attendee Residency																	
Brownstown Twp													1				
Canton		1		1													
Dearborn	1	3	3	2	1	2		2	3		1	1	1	1	1	1	3
Dearborn Heights	1	1	1	1	1	1		1	1		1	1			1	1	1
Detroit	1	3	3	2		1		1	1		1			1			2
Farmington	2												1	1	1		
Garden City															1		
Flat Rock		1	1			1		1								1	1
Hazel Park						1											
Inkster				1		1		1	1							1	1
Lansing			1														
Livonia	2	1	1	1		1			1			1	1	2	2	1	
Melvindale												1	1				
Milford								1									
New Baltimore													1		1		
Northville	1								1				1		2		
Plymouth		1	1	1				1	1		1		1		1	1	
Royal Oak						1						1	1				
Sterling Heights													1				
Southgate												1					
Traverse City			1	1		1		1	1					1		1	
Warren															1		
Wayne									1			2	3		1		
Westland	2	3	1	2	1	2		1	1				2	1	1	2	2
West Bloomfield															1		
Unknown			1	1		2	20	2	2	36	3	21	5		1	1	
<b>TOTALS</b>	<b>10</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>3</b>	<b>14</b>	<b>20</b>	<b>12</b>	<b>14</b>	<b>36</b>	<b>7</b>	<b>29</b>	<b>20</b>	<b>7</b>	<b>15</b>	<b>10</b>	<b>10</b>

**Friends of the Rouge  
2018 Annual Report for ARC**

Page 11

**ROUGE RESCUE**

**EVENT SITE INFORMATION**

**January 1, 2018 through December 31, 2018**

Date	Site Coordinator Event	Location	City	Attendance
3/20/2018	Rouge Rescue Kick-off Meeting	EIC, University of Michigan-Dearborn	Dearborn	22
6/14/2018	Rouge Rescue Wrap-up Meeting	UM-D Environmental Interpretive Center	Dearborn	8

Date	Rouge Rescue Work Sites	Sponsoring Community or Organization	City/Twp/Village	2018 Participation
4/21/2018	EL Johnson Nature Center	E.L. Johnson Nature Center	Bloomfield Hills	38
4/21/2018	Lola Valley	Redford Beautification Commission	Redford Twp	38
4/21/2018	Merriman Hollow	City of Livonia	Westland	7
4/28/2018	Rouge Park	Friends of Rouge Park	Detroit	32
5/5/2018	Rotary Park	City of Novi, Parks, Recreation & Cultural Services	Novi	21
5/12/2018	Henry Ford Estate - Garlic Mustard Removal	Henry Ford Estate Fair Lane	Dearborn	15
5/12/2018	Commissioner Marecki Park Clean Up Day	Wayne County Commissioner Terry Marecki	Northville	30
5/12/2018	Dynamite Park	River Restorations, Inc	Wayne	rained out
5/17/2018	Inglennook Park		Southfield	10
5/19/2018	Douglas Evans Nature Preserve	The Village of Beverly Hills	Beverly Hills	15
5/19/2018	Linden Park	City of Birmingham	Birmingham	
5/19/2018	Lower Rouge Trailhead	Charter Township of Canton	Canton	131
5/19/2018	Meadows Of Canton	Wayne County Department of Public Services, Water Quality Division	Canton Township	89
5/19/2018	Ford Field Gateway Trail	City of Dearborn	Dearborn	16
5/19/2018	University of Michigan - Dearborn	University of Michigan - Dearborn	Dearborn	37
5/19/2018	Oakwood Heights/Fordson Island	FROG	Detroit	15
5/19/2018	Rouge Park	Friends of Rouge Park	Detroit	304
5/19/2018	Heritage Park	City of Farmington Hills	Farmington Hills	54
5/19/2018	Foch/Geoff Nature Preserve	City of Livonia	Livonia	25
5/19/2018	Newburgh Pointe Rec Area - Hines Park	FOTR Volunteers with WC Parks support	Livonia	16
5/19/2018	Allen Drive Park	City of Northville Residents	Northville	21
5/19/2018	Northville Community Park	Friends of the Rouge	Northville Township	8
5/19/2018	Northville Rec Area - Hines Park	Northville Residents with support from WC Parks	Northville Township	97
5/19/2018	Lions Club Park	City of Plymouth	Plymouth	81
5/19/2018	Lola Valley		Redford Twp	23
5/19/2018	Berberian Woods	Southfield Parks and Recreation	Southfield	17
5/19/2018	Beech Woods Recreation Center	City of Southfield	Southfield	21
5/19/2018	Jack R. Smiley Nature Preserve	Southeast Michigan Land Conservancy	Superior Township	18
5/19/2018	Kosch-Headwaters Preserve	Washtenaw County	Superior Township	1
5/19/2018	Weatherbee Woods Preserve	Washtenaw County	Superior Township	3
5/19/2018	Hix Park/ Tonquish Creek	Holliday Nature Preserve Association	Westland	17
5/19/2018	Merriman Hollow	City of Livonia	Westland	40
6/2/2018	Tonquish Creek	Charter Township of Plymouth	Plymouth Township	25
6/16/2018	Merriman Hollow	Livonia Residentst with WC Parks Support	Westland	13
6/23/2018	Henry Ford College	Henry Ford College	Dearborn	10
			<b>Total Participation</b>	<b>1288</b>

**Friends of the Rouge  
2018 Annual Report for ARC**

Page 12

**ROUGE RESCUE  
VOLUNTEER RESIDENCY**

**January 1, 2018 through December 31, 2018**

City/Township	Total Number of Volunteers	City/Township	Total Number of Volunteers
Allen Park	3	Melvindale	2
Ann Arbor	19	Milan	1
Auburn Hills	6	Monroe	1
Birmingham	1	Nashville	2
Beverly Hills	12	New Hudson	1
Bloomfield Hills	19	Northville	30
Bloomfield twp	1	Novi	20
Brighton	2	Oak Park	7
Byron	2	Orchard Lake	2
Canton	111	Ortonville	1
Carver	4	Petoskey	1
Center Line	1	Plymouth	79
Chesterfield	2	Pontiac	2
Clarkston	1	Redford	24
Clinton twp	2	Rochester	1
Commerce Twp	5	Rochester Hills	7
Dearborn	37	Romulus	2
Dearborn Heights	17	Roseville	1
Detroit	139	Royal Oak	3
East China	1	Saginaw	2
East Lansing	1	Shelby Twp	4
Eastpointe	1	South Lyon	5
Farmington	8	Southfield	14
Farmington Hills	41	Southgate	1
Fenton	1	Spring Lake	1
Ferndale	2	Sterling Heights	3
Flint	1	Sylvan Lake	3
Fowlerville	1	Taylor	2
Franklin	1	Trenton	2
Garden City	11	Troy	7
Gibraltar	1	Walled Lake	1
Grant	1	Warren	2
Grosse Pointe Park	1	Waterford	3
Hamtramck	2	Wayne	1
Harper Woods	2	West Bloomfield	12
Highland Park	2	Westland	19
Holt	1	White Lake	2
Howell	2	Willis	1
Huntington Woods	5	Wixom	4
Lake Orion	1	Woodhaven	2
Lapeer	1	Wyandotte	1
Livonia	57	Ypsilanti	4
Macomb	1		
Madison Heights	2	Unknown/ not stated	332

Friends of the Rouge  
2018 Annual Report for ARC  
RIVER RESTORATION  
EVENTS

January 1, 2018 through December 31, 2018

**ARC Grow Zone Maintenance Workdays & Public Education Events**

Date	Event	City	Project	Audience	Participation
8/30/2018	Newburgh Pointe Grow Zone Maintenance Workday	Livonia	ARC - PIE	Bosch employees	17
				<b>Total</b>	<b>17</b>

**Rain Gardens to the Rescue (RGttr)**

Date	Event	City	Location	Audience	Participation
4/14/2018	Green Your Neighborhood Forum	Detroit	Wayne County Community College Western Campus	Public	49
See below	RGttr Workshop Series	Detroit	Detroit Edison Public Library	Detroit residents and public institutions*	15
	<i>5/21/2018 Workshop 1 - Introduction to Rain Gardens</i>		<i>*the same people attended the workshop series</i>		
	<i>6/4/2018 Workshop 2 - Native Plants, Site Conditions and Garden</i>				
	<i>6/11/2018 Workshop 3 - Rain Garden Design</i>				
	<i>6/18/2018 Workshop 4 - Rain Garden Maintenance</i>				
See below	RGttr Plantings (10 sites, listed below)	Detroit	Various sites	Detroit residents and their friends and family	145
	<i>Rain Garden Planting_ Lawton</i>				
	<i>Rain Garden Planting_ Grand River Ave</i>				
	<i>Rain Garden Planting_ Oak Drive</i>				
	<i>Rain Garden Planting_ Warwick</i>				
	<i>Rain Garden Planting_ Muirland</i>				
	<i>Rain Garden Planting_ Grizdale</i>				
	<i>Rain Garden Planting_ Greendale</i>				
	<i>Rain Garden Planting_ Schoolcraft</i>				
	<i>Rain Garden Planting_ Grand River Ave</i>				
	<i>Rain Garden Planting_ Rutherford</i>				
11/29/2018	RGttr Celebration	Detroit		RGttr participants	19
<i>Residency for the RGttr program and events were Detroit residents and partner organizations working in Detroit</i>				<b>Total</b>	<b>228</b>

**Friends of the Rouge  
2018 Annual Report for ARC  
RIVER RESTORATION  
EVENTS**

**January 1, 2018 through December 31, 2018**

<b>Land + Water WORKS Coalition</b>					
<b>Date</b>	<b>Event</b>	<b>City</b>	<b>Location</b>	<b>Audience</b>	<b>Participation</b>
3/26/2018	Land + Water WORKS Forum	Detroit	Rosedale Park Community House	Public	22
4/7/2018	Land + Water WORKS Forum	Detroit			12
5/12/2018	Land + Water WORKS Forum	Detroit			20
5/30/2018	Land + Water WORKS Forum	Detroit			50
6/18/2018	Land + Water WORKS Forum	Detroit			12
6/28/2018	Land + Water WORKS Forum	Detroit			11
6/5/2018	GSI Bus Tour	Detroit		LWW Ambassadors	45
5/24/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	St. Suzanne School	Public	45
6/7/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Burton International Academy	Public	8
6/9/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Wellspring Community Center	Public	9
9/25/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Oakwood Avenue Urban Farm	Public	7
10/6/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Palmer Park	Public	21
10/10/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Bethany Lutheran Church	Public	5
10/19/2018	Rain Garden Workshops & Demonstration Plantings	Detroit	Bethany Lutheran Church	Public	8
<i>Residency for the LWW program and events were Detroit residents and partner organizations working in Detroit</i>				<b>Total</b>	<b>275</b>



**Friends of the Rouge**  
**2018 Annual Report for ARC**  
**RIVER RESTORATION**

**RESIDENCY**

**January 1, 2018 through December 31, 2018**

<b>Event</b>	Newburgh Pointe Workday	GLRI Workday FORD	GLRI Workday FORD
<b>Date</b>	8/30/2018	10/2/2018	10/23/2018
<b>City/Township</b>	Livonia	Detroit	Detroit
<b>Location</b>	Hines Park	Rouge Park	Rouge Park
<b><i>Attendee Residency</i></b>			
Canton	2		
Northville	1		
Novi	2		
Plymouth	2		
West Bloomfield	1		
Unknown	6	11	7
<b>Total</b>	<b>14</b>	<b>11</b>	<b>7</b>

Friends of the Rouge  
2018 Annual Report for ARC  
RIVER RESTORATION  
NPS

January 1, 2018 through December 31, 2018

Event	Rain Garden Design Review Meeting	Presentation Trailwood Garden Club	Presentation 4 Seasons Garden Club	Rain Garden Design Workshop	Presentation Master Gardeners Western Wayne County	Presentation Northville Country Garden Club	Presentation Plymouth AM Rotary	Presentation Get Your Lawn a Job	Presentation Canton Rotary	Canton High School Rain Garden Workday	Canton High School Rain Garden Workday	Hulsing Elementary Rain Garden Workday	Hulsing Elementary Rain Garden Workday	Plymouth Municipal Yard Rain Garden Workday	Ford Workday Rain Garden
Date	1/11/2018	1/16/2018	1/19/2018	2/22/2018	3/1/2018	3/7/2018	5/26/2018	6/16/2018	8/13/2018	9/8/2018	9/16/2018	9/22/2018	9/29/2018	9/28/2018	11/15/2018
City/Township	Canton	Plymouth Township	South Lyon	Northville	Van Buren Twp	Northville	Plymouth	Plymouth	Canton	Canton	Canton	Canton	Canton	Plymouth	Canton
Location	Canton High School	Plymouth Township Hall	South Lyon	Northville Community Center	WCC Western Campus	Northville	PARC	Plymouth Library	Canton	Canton High School	Canton High School	Hulsing Elementary School	Hulsing Elementary School	Plymouth Municipal Yard	Canton High School
Attendee Residency															
Canton	10	3			5			3	13	23	15	19	15		
Dearborn					3										
Detroit					5										
Livonia		1			3	2									
Northville				8	1	11	3	6							
Plymouth		10			3		6	35						11	
Redford					3										
Salem Township			8					1							
Southfield					1										
Wayne					1			1							
Westland					3			1							
Unknown					7			6							13
Total	10	14	8	8	35	13	9	53	13	23	15	19	15	11	13

Friends of the Rouge  
2018 Annual Report for ARC  
LOCAL AND REGIONAL OUTREACH  
January 1, 2018 through December 31, 2018

Page 17

Date	Event/Meeting Name	Location	FOTR Staff	Display	Participation	Presentation
1/17/2018	Meeting w Dr. Selby of University of Detroit Mercy	Dearborn	Cassady		Y	
1/17/2018	Detroit Water Board Public Meeting	Detroit	Petrella		Y	
2/1/2018	RRAC Mtg - demonstrated terrain model	Wayne	Petrella	Y		Y
2/3/2018	Shiver on the River	Detroit	Petrella, Vankerckhove, Brosko, Weis	Y		
2/15/2018	Meeting w Yu Man Lee of MSU Extension	Dearborn	Cassady		Y	
2/16/2018	Earth Force Training	Detroit	Cassady		Y	
2/18/2018	Southfield Winterfest	Southfield	Siedlaczek, Vankerckhove, Brosko	Y		
2/21/2018	Rogell Golf Course planning meeting	Detroit	Petrella		Y	
2/18/2018	Holliday Nature Preserve planning public meeting	Westland	Petrella		Y	
3/12/2018	Site visit to Orchard Place Condos	Farmington Hills	Petrella, Craig		Y	
3/17/2018	Interview with UM students about Rouge PAC	Livonia	Petrella		Y	
3/10/2018	Rogell Golf Course planning meeting	Detroit	Petrella		Y	
3/21/2018	Meeting w Earth Force & Wayne RESA	Dearborn	Cassady		Y	
3/22/2018	Land and Water Works Public Forum	Detroit	Petrella		Y	
3/23/2018	Downriver Delta Legislative Breakfast	Melvindale	Petrella		Y	
3/27/2018	Rouge Park Greening of Detroit	Detroit	Petrella		Y	
3/28/2018	Gordie Howe Bridge Meeting	Detroit	Petrella		Y	
3/28/2018	Lower Rouge River Old Channel Public Meeting	Detroit	Petrella, McCormick		Y	
4/4/2018	Rogell Golf Course planning meeting	Detroit	Petrella		Y	
4/22/2018	Heritage Park Earth Day	Farmington Hills	Al Vankerckhove, Carl Clark	Y		
5/1/2018	SDEV Meeting	Detroit	Petrella, McCormick		Y	
5/5/2018	Southfield Fish Derby	Southfield	Siedlaczek	Y		
6/7/2018	Interview with UM students about Rouge PAC	Dearborn	Petrella		Y	
7/9/2018	Meeting w Communities in Schools of Metropolitan Detroit / E	Dearborn	Cassady		Y	
7/23 - 7/25/18	Earth Force Environmental Action Conference	Shelby Township	Cassady		Y	
8/29/2018	Plymouth Geology Bike Tour	Plymouth	Cassady, Petrella, McCormick		Y	
9/5/2018	Meeting with Alyssa Atkinson about Detroit Greenbelt	Plymouth	Petrella, McCormick		Y	
9/11/2018	Canton Do Good Expo	Canton	Al Vankerckhove	Y		
9/12/2018	Cranbrook Rouge River Watershed Festival	Bloomfield Hills	Cassady			Y
10/10/2018	Rogell Golf Course planning meeting	Detroit	Petrella		Y	
10/11/2018	Meeting with John Schmittroth about Rouge Book	Plymouth	Petrella, McCormick		Y	
11/27/2018	Meeting w Lisa Perez of USFS	Plymouth	Cassady		Y	

# 2019

## Annual Report for the Alliance of Rouge Communities



Friends of the Rouge

January 1, 2019 through

December 31, 2019

**FRIENDS OF THE ROUGE  
ANNUAL REPORT 2019  
(January 1, 2019 through December 31, 2019)  
For the  
ALLIANCE OF ROUGE COMMUNITIES**

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**EDUCATION**

School Monitoring	Page 3
Training Workshops	Pages 4-6
Student Symposium	Page 6
Partnering Events and Conference Participation	Page 6

**RESTORATION**

Rouge Rescue Event	Pages 7-8
Restoration Detroit	Pages 9-10
RainSmart Events	Pages 11-12

**MONITORING**

Frog and Toad Survey	Pages 13-14
Benthic Macroinvertebrate Sampling	Pages 15-16
Fish Surveys	Page 17

**WATER TRAIL**

Rouge River Water Trail	Pages 18-19
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**OUTREACH**

Local and Regional Outreach	Pages 20-21
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**Friends of the Rouge**  
**2019 Annual Report for ARC**  
**EDUCATION**  
**January 1, 2019 through December 31, 2019**

Schools - Spring Monitoring 2019				
Community	School	# Teachers	# Students	Monitoring Location
Beverly Hills	Detroit Country Day Middle School	6	360	School grounds
Canton	Crescent Academy International	2	44	Lower Rouge Recreational Trail, Canton
Canton	Plymouth High School	1	70	School grounds
Dearborn	Fordson High School	2	30	Ford Field Park, Dearborn
Dearborn	O.L. Smith Middle School	2	15	Ford Field Park, Dearborn
Dearborn Heights	Crestwood High School	1	15	Parr Recreation Area, Wayne Co Parks/Hines Dr, Dearborn Heights
Detroit	Clippert Multicultural Honors Academy	1	30	Bell Creek Park, Redford
Farmington Hills	Farmington STEAM Academy	8	224	School grounds
Farmington Hills	Steppingstone School	2	5	Shiawassee Park, Farmington Hills
Garden City	Garden City High School	4	40	Inkster Wetlands, Inkster
Hamtramck	Hamtramck High School	3	30	Commerce Ct, Wayne
Harper Woods	Chandler Park Academy High School	2	12	Heritage Park, Farmington Hills
Lincoln Park	Lincoln Park High School	2	10	Ford Field Park, Dearborn
Salem	Salem Elementary School	2	56	School grounds
Troy	Troy College & Career High School	1	17	Firefighter's Park, Troy
Troy	Troy High School	1	68	Coolidge / Long Lake Rds (detention pond), Troy
Warren	Lincoln Senior High School	1	30	Helm's Haven, Wayne Co Parks/Hines Dr, Dearborn Heights
Westland	Huron Valley Lutheran High School	1	24	Nankin Mill, Wayne Co Parks/Hines Dr, Westland
Wyandotte	Roosevelt High School	3	50	Plymouth Township (McClumpha) Park, Plymouth Township
<b>TOTALS</b>		<b>45</b>	<b>1130</b>	

Schools - Fall Monitoring 2019				
Community	School	# Teachers	# Students	Monitoring Location
Allen Park	Inter-City Baptist High School	1	25	Ford Field Park, Dearborn / Goudy Park, Wayne
Beverly Hills	Detroit Country Day Middle School	7	420	School grounds
Bloomfield Hills	Birmingham Covington School	8	215	Linden Park, Birmingham
Dearborn Heights	Crestwood High School	1	150	Parr Recreation Area, Wayne Co Parks/Hines Dr, Dearborn Heights
Dearborn Heights	Tawheed Center School	2	25	Parkland Park, Dearborn Heights
Detroit	Academy of the Americas High School	1	79	Scout Hollow, Rouge Park, Detroit
Detroit	Clippert Multicultural Honors Academy	1	35	Bell Creek Park, Redford
Farmington Hills	Farmington STEAM Academy	9	240	School grounds
Harper Woods	Chandler Park Academy High School	2	5	Heritage Park, Farmington Hills
Lincoln Park	Lincoln Park High School	1	45	Ford Field Park, Dearborn
Novi	Novi Meadows Elementary School	2	50	Orchard Hills West Park, Novi
Plymouth	Steppingstone School	2	6	Riverside Park, Wayne Co Parks/Hines Dr, Plymouth
Troy	Troy College & Career High School	1	15	Firefighter's Park, Troy
Troy	Troy High School	1	111	Coolidge / Long Lake Rds, Troy
Warren	Lincoln Senior High School	1	30	Helm's Haven Park, Wayne Co Parks/Hines Dr, Dearborn Heights
Westland	Huron Valley Lutheran High School	1	20	Nankin Mill, Wayne Co Parks/Hines Dr, Westland
Wyandotte	Roosevelt High School	3	30	Plymouth Township/McClumpha Park, Plymouth Township
<b>TOTALS</b>		<b>44</b>	<b>1501</b>	

**Friends of the Rouge**  
**2019 Annual Report for ARC**  
**EDUCATION**  
**January 1, 2019 through December 31, 2019**

<b>Workshop - Advanced Chemical Training</b>			
March 9, 2019 - 9:00AM-2:30PM Detroit Country Day Middle School, Beverly Hills			
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>	<b># Volunteers</b>
Canton	Crescent Academy International	1	
Canton	Grand Valley State University		1
Dearborn	Fordson High School	1	
Dearborn	O.L. Smith Middle School	1	
Dearborn	Communities in Schools	1	
Farmington Hills	Farmington STEAM Academy	4	
Garden City	Garden City High School	1	
Pontiac	Oakland University		1
Riverview	University of Michigan-Dearborn		1
Royal Oak	Wayne State University		1
Troy	Troy College & Career High School	1	
West Bloomfield	Oakland University		1
<b>TOTALS</b>		<b>10</b>	<b>5</b>

<b>Workshop - Bug Identification &amp; Sampling Techniques</b>			
April 6, 2019 - 9:00AM - 2:30PM FOTR Office / Plymouth Township (McClumpha) Park, Plymouth			
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>	<b># Volunteers</b>
Canton	Grand Valley State University		1
Farmington Hills	Farmington STEAM Academy	2	1
Grosse Pointe	Wayne State University		1
Oxford	Oakland University		1
West Bloomfield	Oakland University		1
<b>TOTALS</b>		<b>2</b>	<b>5</b>

<b>Workshop - Bug Identification &amp; Sampling Techniques</b>			
April 20, 2019 - 9:00AM - 2:30PM FOTR Office / Plymouth Township (McClumpha) Park, Plymouth			
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>	<b># Volunteers</b>
Dearborn	University of Michigan-Dearborn		1
Dearborn	Fordson High School	1	
Farmington Hills	Farmington STEAM Academy	1	
Garden City	University of Michigan-Dearborn		1
Novi	Oakland University		1
<b>TOTALS</b>		<b>2</b>	<b>3</b>

<b>Workshop - Returning Teacher Refresher: Mock Monitoring Day</b>		
June 19, 2019 - 9:00AM - 2:00PM Plymouth Township (McClumpha) Park / FOTR Office, Plymouth		
<b>Community</b>	<b>Affiliation</b>	<b># Teachers</b>
Beverly Hills	Detroit Country Day Middle School	1
Harper Woods	Chandler Park Academy High School	1
Lincoln Park	Lincoln Park High School	1
Warren	Lincoln Senior High School	1
Westland	Huron Valley Lutheran High School	1
<b>TOTALS</b>		<b>5</b>



Friends of the Rouge  
2019 Annual Report for ARC  
EDUCATION  
January 1, 2019 through December 31, 2019

<b>Workshop - Returning Teacher Refresher: How to Engage Students in Community Action</b>			
June 21, 2019 - 9:00AM - 2:00PM FOTR Office, Plymouth			
Community	Affiliation	# Teachers	# Volunteers
Beverly Hills	Detroit Country Day Middle School	1	
Detroit	U.S. Forest Service		1
Lincoln Park	Lincoln Park High School	1	
Westland	Huron Valley Lutheran High School	1	
<b>TOTALS</b>		<b>3</b>	<b>1</b>

<b>Workshop - Returning Teacher Refresher: Reflection &amp; Planning Time</b>		
June 24, 2019 - 9:00AM - 2:00PM FOTR Office, Plymouth		
Community	Affiliation	# Teachers
Warren	Lincoln Senior High School	1
Westland	Huron Valley Lutheran High School	1
<b>TOTALS</b>		<b>2</b>

<b>Workshop - Summer Institute: New Teacher Orientation</b>			
August 5, 2019 - 9:00AM - 12:00PM FOTR Office, Plymouth			
Community	Affiliation	# Teachers	# Volunteers
Canton	Crescent Academy International	1	
Detroit	Trix Academy	1	
Northville	Northville High School	1	
Novi	Volunteer		1
Novi	Novi Meadows Elementary School	1	
<b>TOTALS</b>		<b>4</b>	<b>1</b>

<b>Workshop - Summer Institute: How to Engage Students in Community Action</b>		
August 6, 2019 - 9:00AM - 2:00PM FOTR Office, Plymouth		
Community	Affiliation	# Teachers
Farmington Hills	Farmington STEAM Academy	2
Northville	Northville High School	1
<b>TOTALS</b>		<b>3</b>

Friends of the Rouge  
2019 Annual Report for ARC  
EDUCATION  
January 1, 2019 through December 31, 2019

<b>Workshop - Summer Institute: Advanced Chemical Training</b>			
August 7, 2019 - 9:00AM - 2:30PM FOTR Office, Plymouth			
Community	Affiliation	# Teachers	# Volunteers
Allen Park	Inter-City Baptist School	1	
Dearborn	University of Michigan-Dearborn		1
Detroit	Trix Academy	1	
Northville	Northville High School	1	
Troy	Troy High School	2	
Wyandotte	Roosevelt High School	1	
<b>TOTALS</b>		<b>6</b>	<b>1</b>

<b>Workshop - Summer Institute: Bug Identification &amp; Sampling Techniques</b>			
August 8, 2019 - 9:00AM - 2:30PM FOTR Office / Plymouth Township (McClumpha) Park, Plymouth			
Community	Affiliation	# Teachers	# Volunteers
Canton	Crescent Academy International	1	
Dearborn	University of Michigan-Dearborn		1
Detroit	Trix Academy	1	
Lansing	U.S. Forest Service		1
Northville	Northville High School	1	
Novi	Novi Meadows Elementary School	1	
Novi	Volunteer	1	
Troy	Troy High School	2	
<b>TOTALS</b>		<b>7</b>	<b>2</b>

<b>Workshop - Summer Institute: Reflection &amp; Planning Time</b>		
August 12, 2019 - 9:00AM - 2:00PM FOTR Office, Plymouth		
Community	Affiliation	# Teachers
Northville	Northville High School	1
<b>TOTALS</b>		<b>1</b>

<b>Student Symposium</b>			
November 15, 2019 - 9:30AM - 1:30PM Schoolcraft College, VisTaTech Center, Livonia			
Community	Affiliation	# Teachers	# Students
Beverly Hills	Detroit Country Day Middle School	1	7
Dearborn Heights	Crestwood High School	1	18
Westland	Huron Valley Lutheran High School	1	18
<b>TOTALS</b>		<b>3</b>	<b>43</b>

<b>Lessons, Water Festivals, &amp; Conferences - 2019</b>	
<b>Lesson</b>	
<b>Bug Hunt</b>	
April 25: Farmington STEAM Academy, Farmington Hills	
<b>Partner Event</b>	
<b>St. Suzanne STEAM Camp Monitoring Day</b>	
August 2: Scout Hollow-Rouge Park, Detroit	
<b>Conference</b>	
<b>Place-Based Education Conference</b>	
November 8-9: University of Michigan-Flint, Flint	

**Friends of the Rouge**  
**2019 Annual Report for ARC**  
**RESTORATION**  
**ROUGE RESCUE EVENT SITE INFORMATION**  
**January 1, 2019 through December 31, 2019**

Date	Site Coordinator Event	Location	City	Attendance
2/21/2019	Rouge Rescue Kick-off Meeting	Plymouth Art & Recreation Center (PARC)	Plymouth	19
6/7/2019	Rouge Rescue Wrap-up Meeting	Plymouth Art & Recreation Center (PARC)	Plymouth	15

Date	Rouge Rescue Work Sites	Sponsoring Community or Organization	City/Twp/Village	2019 Participation
4/13/2019	Merriman Hollow Work Day	-	Westland	18
4/27/2019	E.L. Johnson Nature Center	Bloomfield Township, Bloomfield Hills Schools	Bloomfield Hills	65
5/11/2019	Fair Lane (Henry Ford Estate)	Henry Ford Estate Fair Lane	Dearborn	12
5/11/2019	Riverside Park	Keep Plymouth Leafy	Plymouth	22
5/18/2019	University of Michigan - Dearborn EIC	University of Michigan- Dearborn	Dearborn	17
5/18/2019	Moelke Park	City of Livonia	Livonia	59
5/18/2019	Beech Woods Rec. Center	City of Southfield	Southfield	40
5/18/2019	Jack R. Smiley Nature Preserve	Southeast Michigan Land Conservancy	Superior Township	16
5/18/2019	Tonquish Creek (Holliday Nature Preserve)	Holliday Nature Preserve Association; Partner w	Westland	32
5/18/2019	Dearborn Gateway Trail	City of Dearborn	Dearborn	28
5/18/2019	Henry Ford College	Henry Ford College	Dearborn	14
5/18/2019	Heritage Park	City of Farmington Hills	Farmington Hills	82
5/18/2019	Brightmoor (Eliza Howell)	-	Detroit	15
5/18/2019	Linden Park	City of Birmingham	Birmingham	20
5/18/2019	Oakwood Heights/Fordson Island	FRoG (The Fort/Rouge Gateway)	Detroit	27
5/18/2019	Rouge Park	Friends of Rouge Park; Partner with the City of D	Detroit	355
5/18/2019	Meadows Of Canton	Wayne County Department of Public Services, W	Canton Township	74
5/18/2019	Merriman Hollow	-	Westland	31
5/18/2019	Lola Valley	-	Redford Twp	8
5/18/2019	Preservation Park	Canton Township	Canton	85
5/18/2019	Allen Drive Park	City of Northville Residents	Northville	14
5/18/2019	Dozier Recreation Center - PLANTING RESCHEDU	City of Inkster	Inkster	18
5/18/2019	Smith Elementary School	City of Plymouth	Plymouth	95
5/18/2019	Douglas Evans Nature Preserve	The Village of Beverly Hills	Beverly Hills	17
5/18/2019	Redford Cemetery	Redford Cemetery Association	Redford Twp	19
5/18/2019	Berberian Woods	City of Southfield	Southfield	33
5/22/2019	Newburgh Lake/ Sumac Pointe	Friends of the Rouge	Livonia	5
5/25/2019	Dozier Recreation Center	City of Inkster	Inkster	16
6/1/2019	Novi Cemetery	City of Novi	Novi	14
6/1/2019	Goudy Park	River Restoration Inc.	Wayne	15
6/3/2019	Rouge Park	Friends of Rouge Park	Detroit	56
			Total Participation	1322

**Friends of the Rouge**  
**2019 Annual Report for ARC**  
**RESTORATION**  
**ROUGE RESCUE VOLUNTEER RESIDENCY**  
**January 1, 2019 through December 31, 2019**

City/Township	Total Number of Volunteers	City/Township	Total Number of Volunteers
Allen Park	2	Melvindale	0
Ann Arbor	12	Milan	0
Auburn Hills	4	Monroe	0
Birmingham	14	Nashville	0
Beverly Hills	7	New Hudson	0
Bloomfield Hills	24	Northville	34
Bloomfield twp	4	Novi	23
Brighton	0	Oak Park	3
Byron	0	Orchard Lake	0
Canton	93	Ortonville	0
Carver	0	Petoskey	0
Center Line	1	Plymouth	66
Chesterfield	1	Pontiac	0
Clarkston	0	Redford	10
Clinton twp	1	Rochester	0
Commerce Twp	8	Rochester Hills	1
Dearborn	47	Romulus	1
Dearborn Heights	21	Roseville	2
Detroit	176	Royal Oak	15
East China	0	Saginaw	0
East Lansing	0	Shelby Twp	1
Eastpointe	4	South Lyon	1
Farmington	8	Southfield	9
Farmington Hills	72	Southgate	1
Fenton	1	Spring Lake	0
Ferndale	3	Sterling Heights	1
Flint	0	Sylvan Lake	0
Fowlerville	0	Taylor	1
Franklin	2	Trenton	2
Garden City	6	Troy	2
Gibraltar	0	Walled Lake	1
Grant	0	Warren	5
Grosse Pointe Park	0	Waterford	2
Hamtramck	3	Wayne	3
Harper Woods	1	West Bloomfield	12
Highland Park	1	Westland	24
Holt	0	White Lake	2
Howell	1	Willis	0
Huntington Woods	0	Wixom	2
Lake Orion	0	Woodhaven	0
Lapeer	2	Wyandotte	2
Livonia	42	Ypsilanti	4
Macomb	1		
Madison Heights	0	Unknown/ not stated	466

Friends of the Rouge  
2019 Annual Report for ARC  
RESTORATION  
January 1, 2019 through December 31, 2019

Rain Gardens to the Rescue (RGttr)					
Date	Event	City	Location	Audience	Participation
3/16/2019	Green Your Neighborhood Community Forum	Detroit	Wayne County Community College Eastern Campus	Public	83
4/2019- 6/2019	RGttr Workshop Series	Detroit	Eastside Community Network	Detroit residents and public institutions*	
	<i>4/29/2019 Workshop 1 - Introduction to Rain Gardens</i>				
	<i>5/6/2019 Workshop 2 - Native Plants, Site Conditions and Garden Sizing</i>				
	<i>5/13/2019 Workshop 3 - Rain Garden Design</i>				
	<i>5/20/2019 Workshop 4 - Design Reveal</i>				
	<i>6/3/2019 Workshop 5 - Just Weed It! Maintenance Workshop</i>				
9/2019- 10/2019	RGttr Plantings (10 sites, listed below)	Detroit	Multiple locations, Detroit	Detroit residents and their friends and family	98
	<i>9/14/2019 Rain Garden Planting_Montclair</i>		Residential site		
	<i>9/14/2019 Rain Garden Planting_Courville</i>		Residential site		
	<i>Rain Garden Planting_W. Outer Drive</i>		Residential site		
	<i>Rain Garden Planting_Elmdale</i>		Residential site		
	<i>Rain Garden Planting_Baylis</i>		Residential site		
	<i>Rain Garden Planting_Lemay</i>		Residential site		
	<i>Rain Garden Planting_Goddard</i>		Residential site		
	<i>Rain Garden Planting_Haverhill</i>		Residential site		
	<i>Rain Garden Planting_Davison Elementary School</i>		Public site		
	<i>Rain Garden Planting_St. Suzanne Cody Rouge CRC</i>		Semipublic site		
9/25/2019	RGttr Celebration	Detroit	Samaratin Center	RGttr and SWST Participants & guests	30
7/2019- 11/2019	Rain Barrel Workshops (3)	Detroit	Multiple locations, Detroit	Public	37
8/10/2019	Rain Gardens to the Rescue bus tour	Detroit	Samaratin Center	Public	12
4/2019- 6/2019	Storm Water Specialist Training Program (8 week, 16 class course)	Detroit	St. Suzanne Cody Rouge CRC	RGttr Participants	9
Residency for the RGttr program and events were Detroit residents and partner organizations working in Detroit				<b>Total</b>	<b>269</b>

Friends of the Rouge  
2019 Annual Report for ARC  
RESTORATION  
January 1, 2019 through December 31, 2019

Land + Water WORKS Coalition					
Date	Event	City	Location	Audience	Participation
8/3/2019	GSI Bus Tour	Detroit		LWW Ambassadors	20
8/13/2019	Ambassador training_Downspout Disconnect #1	Detroit		LWW Ambassadors	30
9/3/2019	Ambassador training_Downspout Disconnect #2	Detroit		LWW Ambassadors	30
9/28/2019	Ambassador training/Community Canvassing	Detroit		LWW Ambassadors	15
9/12/2019	Rain Garden Workshop	Detroit	Cristo Rey #1	Students	17
9/19/2019	Rain Garden Workshop & Demonstration Planting	Detroit	Cristo Rey #2	Students and GM Employees	17
10/3/2019	Rain Garden Workshop	Detroit	Cristo Rey #3	Students	4
9/13/2019	Rain Garden Workshop	Detroit	Oak Grove #1	Public	5
9/27/2019	Rain Garden Workshop & Demonstration Planting	Detroit	Oak Grove #2	Public	18
10/15/2019	Rain Garden Workshop	Detroit	Oak Grove #3	Public	3
Residency for the LWW program and events were Detroit residents and partner organizations working in Detroit				<b>Total</b>	<b>159</b>

TNC Signage Project					
Date	Event	City	Location	Audience	Participation
12/3/2019	Rain Garden Educational Signage Unveiling	Detroit	Cristo Rey High School	Students and Community	26
12/5/2019	Rain Garden Educational Signage Unveiling	Detroit	St. Suzanne Cody Rouge CRC	Public, St. Suzanne Board students, and program participants	30
Residency for the TNC project were Detroit residents and partner organizations				<b>Total</b>	<b>56</b>

Friends of the Rouge  
2019 Annual Report for ARC  
RESTORATION  
RAINSMART EVENTS  
January 1, 2019 through December 31, 2019

Event	Westland Get Your Lawn a Job!	Plymouth Study Group Rain Garden Presentation	Plymouth Garden Club Presentation	Master Rain Gardener Training Program	Master Rain Gardener Training Program	Master Rain Gardener Training Program	Master Rain Gardener Training Program	Master Rain Gardener Training Program	Ford rain garden workday	Bosch rain garden workday	Geneva rain garden workday	Groen Rain Garden Workday	Groen Rain Garden Workday	Rain garden maintenance workday	Salem Rain Garden Workday	Salem Rain Garden Workday	Geneva rain garden workday
Date	1/12/2019	2/23/2019	1/14/2019	2/2/2019	2/9/2019	2/16/2019	2/23/2019	3/2/2019	6/24/2019	6/27/2019	6/1/2019	5/14/2019	5/17/2019	5/22/2019	5/23/2019	5/24/2019	5/31/2019
City/Township	Westland	Plymouth	Plymouth	Plymouth	Plymouth	Plymouth	Plymouth	Plymouth	Plymouth	Plymouth	Canton	Plymouth Township	Plymouth Township	Plymouth	Salem Township	Salem Township	Canton
Location	Westland Public Library	Plymouth Arts Council	Plymouth District Library	PARC, FOTR office	PARC, FOTR office	PARC, FOTR office	PARC, FOTR office	PARC, FOTR office	PARC	PARC	Geneva Presbyterian Church	Groen Residence	Groen Residence	Plymouth Municipal Yard	Salem Township Hall	Salem Township Hall	Geneva Presbyterian Church
Attendee Residency																	
Allen Park															2		
Canton	7		3	4	3	3	3	3	1						1		1
Dearborn				1	1	1	1	0							1		4
Dearborn Heights																	
Detroit				1	2	2	2	1									
Farmington												1			1		
Farmington Hills				2	1	1	1	2									1
Garden City	4																
Livonia	6			3	3	3	2	2				1					
Northville	2	2										1					
Northville Township																	
Novi																	1
Plymouth	4	2	7	2	2	2	1	2							2		
Plymouth Township				3	2	3	3	3				2	2				
Redford	2			2	2	2	2	2									
Salem Township																	
Southfield																	1
Van Buren Twp.				1		1	1	1									
Wayne																	
Walled Lake		1															
Westland	11		2	1	1	1	1	1									
West Bloomfield																	
Outside watershed				4	4	4	4	4						1	2		1
Unknown	2	28	20						15	7	3	10	6			9	1
Total	38	33	32	24	21	23	21	21	16	7	3	15	8	1	9	9	10



Friends of the Rouge  
2019 Annual Report for ARC  
RESTORATION  
RAINSMART EVENTS  
January 1, 2019 through December 31, 2019

Event	Michowski Rain Garden Install	Yarrington Rain Garden Install	Deluka Rain Garden Install	Starr Rain Garden Install	Moraine Rain Garden Install	Moraine Rain Garden Install	Moraine Rain Garden Install	Plymouth Township Park Rain Garden	Ford Rain Garden at PARC	Yarrington Rain Garden Install	Hulsing Maintenance	Hause Rain Garden Build	Bosch Rain Garden at PARC	Hause & Shock Rain Garden Completions	Viars Rain Garden Install	Shock Rain Garden Install	St Suzanne Rain Garden Installation
Date	6/2/2019	6/3/2019	5/10/2019	6/30/2019	6/27/2019	6/26/2019	6/29/2019	6/18/2019	6/24/2019	6/6/2019	6/8/2019	6/7/2019	6/12/2019	6/15/2019	6/15/2019	6/14/2019	8/24/2019
City/Township	Northville	Plymouth Township	Westland	Plymouth Township	Northville Township	Northville Township	Northville Township	Plymouth Township	Plymouth	Plymouth Township	Canton	Plymouth Township	Plymouth	Plymouth Township & Canton	Canton	Canton	Detroit
Location	Michowski Residence	Yarrington Residence	Deluka Residence	Starr Residence	Moraine Elementary School	Moraine Elementary School	Moraine Elementary School	Plymouth Township Park	PARC	Yarrington Residence	Hulsing Elementary School	Hause Residence	PARC	Hause Residence and Shock Residence	Viars Residence	Shock Residence	9357 Westwood St, Detroit, MI 48228
Attendee Residency																	
Allen Park																	
Canton	1							2	1		2	1					
Dearborn												2					
Dearborn Heights								1									
Detroit																	12
Farmington								1					1	1			
Farmington Hills												1					
Garden City																	
Livonia							1										
Northville							7										
Northville Township														2			
Novi	3																
Plymouth								6		1		1					
Plymouth Township	1			2				3		3		1		1			
Redford							1										
Salem Township																	
Southfield							1	1				1					
Van Buren Twp.																	
Wayne																	
Walled Lake																	
Westland							1	2				1		1			
West Bloomfield												1					
Outside watershed								2			2	4					
Unknown	7	14	13	12	13	6	5	11	15	1			27	10	13	13	
Total	12	14	13	14	13	6	16	29	16	5	4	13	28	15	13	13	12

**Friends of the Rouge**  
**2019 Report for ARC**  
**MONITORING**  
**FROG AND TOAD SURVEY**  
**January 1, 2019 through December 31, 2019**

Event	Frog & Toad Survey Training Workshop	Frog & Toad Survey Veterans	Frog & Toad Group Listen	Data Submission
Date	3/16/2019	March thru June	4/26/2019	March thru June
Time	10am-12pm	after dark	7-9pm	7-8 pm
City/Township	Bloomfield Township	same as home	West Bloomfield	same as home
Location	Township Hall		Nature Preserve	
Ann Arbor				
Belleville				
Beverly Hills		1	2	1
Birmingham		4		1
Bloomfield Hills	4	4		4
Bloomfield Twp	2			
Brownstown Twp	1			
Canton	2	13		8
Dearborn	4	3		4
Dearborn Heights	1	2	2	
Detroit	1	3		2
Eastpointe				
Farmington		2		1
Farmington Hills	2	2	1	2
Franklin	2			
Garden City	2			
Hamtramck		1		1
Hazel Park		1		
Huntington Woods	2	2		1
Lathrup Village	3			
Livonia	6	3	1	2
Melvindale		1		1
Milan				
Mount Clemens				
New Boston				
New Hudson				
Northville		5		6
Novi	1	2		2
Oak Park		1		
Plymouth	5	5		7
Plymouth Township				
Redford		2		
Riverview	1			
Rochester Hills	1			

**Friends of the Rouge**  
**2019 Report for ARC**  
**MONITORING**  
**FROG AND TOAD SURVEY**  
**January 1, 2019 through December 31, 2019**

Event	Frog & Toad Survey Training Workshop	Frog & Toad Survey Veterans	Frog & Toad Group Listen	Data Submission
Date	3/16/2019	March thru June	4/26/2019	March thru June
Time	10am-12pm	after dark	7-9pm	7-8 pm
City/Township	Bloomfield Township	same as home	West Bloomfield	same as home
Location	Township Hall		Nature Preserve	
Royal Oak	2	1		3
Southfield	1	1		1
Southgate		1		1
Sylvan Lake	1			1
Troy	5	1		2
Trenton				
Walled Lake				
Waterford	1			1
Wayne		4		
West Bloomfield		4		3
Westland		4		4
Wyandotte	2			
Ypsilanti	1			1
Unknown		1	78	
<b>TOTALS</b>	<b>53</b>	<b>74</b>	<b>84</b>	<b>60</b>

<b>2018 Blocks Surveyed</b>	
Subwatershed	# blocks
Main 1-2	32
Upper	16
Middle 1	32
Lower 1	29
Lower 2	7
Middle 3	2
Main 3-4	7
<b>TOTAL</b>	<b>125</b>

**Friends of the Rouge**  
**2019 Report for ARC**  
**MONITORING**  
**BENTHIC MACROINVERTEBRATE SAMPLING**  
**January 1, 2019 through December 31, 2019**

<b>Event</b>	<b>Stonefly Refresher</b>	<b>Stonefly Search</b>	<b>Spring Sampling</b>	<b>Eliza Howell Discovery Day</b>	<b>Fall Training</b>	<b>Fall Bug Hunt</b>	<b>Fall Bug ID</b>
<b>Date</b>	1/12/2019	1/26/2019	4/6, 4/9, 4/12	7/13/2019	9/28/2019	10/19/2019	11/4/2019
<b>Time</b>	10am-12pm	9am-3pm	9am-2pm	10am-2pm	9am-2pm	9am-4pm	5pm-7pm
<b>City/Township</b>	Plymouth	Plymouth	various	Detroit	Plymouth	Livonia	Plymouth
<b>Location</b>	FOTR Lab	PARC Building		Eliza Howell Park	FOTR Office	Schoolcraft College	FOTR Office
<b>Attendee Residency</b>							
Allen Park		1				1	1
Ann Arbor						3	
Belleville							
Beverly Hills	1	3	2				
Birmingham						1	
Bloomfield Hills		1					
Brighton							
Brownstown Twp							
Canton		7		1		1	
Commerce						3	
Dearborn	2	10				3	
Dearborn Heights	1	4	3		1	1	1
Detroit		4				2	
Erie							
Farmington		1					
Farmington Hills		1	2			2	
Ferndale		1					
Garden City	1	1				1	
Grosse Pte		1	3			1	
Grosse Pointe Pk							
Hamtramck				1		1	
Hartland							
Lake Angelus		4					
Lansing		1					
Lincoln Park	2	2	1				
Livonia	4	7				8	3
Midland							
Mount Clemens	2					2	
Northville	1	3				2	
Novi							
Oak Park						2	
Plymouth	2	4	8		2	4	3
Redford		3				5	
Richmond		1					
Royal Oak	1	2				1	
Saint Clair Shores		1					
Shelby Twp		1			1	1	

**Friends of the Rouge**  
**2019 Report for ARC**  
**MONITORING**  
**BENTHIC MACROINVERTEBRATE SAMPLING**  
**January 1, 2019 through December 31, 2019**

<b>Event</b>	<b>Stonefly Refresher</b>	<b>Stonefly Search</b>	<b>Spring Sampling</b>	<b>Eliza Howell Discovery Day</b>	<b>Fall Training</b>	<b>Fall Bug Hunt</b>	<b>Fall Bug ID</b>
<b>Date</b>	1/12/2019	1/26/2019	4/6, 4/9, 4/12	7/13/2019	9/28/2019	10/19/2019	11/4/2019
<b>Time</b>	10am-12pm	9am-3pm	9am-2pm	10am-2pm	9am-2pm	9am-4pm	5pm-7pm
<b>City/Township</b>	Plymouth	Plymouth	various	Detroit	Plymouth	Livonia	Plymouth
<b>Location</b>	FOTR Lab	PARC Building		Eliza Howell Park	FOTR Office	Schoolcraft College	FOTR Office
<b>Attendee Residency</b>							
Southfield							
Sterling Heights							
Taylor							
Troy		1					
Warren	1	2		1		1	
Waterford							
Wayne						2	
West Bloomfield			1				
Westland	1	4	3		2	10	
Wixom						2	
Ypsilanti							
Unknown	1	8	1			16	
<b>TOTALS</b>	<b>20</b>	<b>79</b>	<b>24</b>	<b>3</b>	<b>6</b>	<b>76</b>	<b>8</b>

**Friends of the Rouge  
2019 Report for ARC  
MONITORING  
FISH SURVEYS**

**January 1, 2019 through December 31, 2019**

<b>Fish Surveys</b>							
<b>Date</b>	5/6/2019	5/14/19	8/16/19	8/18/19	8/23/19	8/24/19	9/6/19
<b>City/Township</b>	Coon Creek	Farmington/ Redford	Canton	Canton	Canton/ Wayne	Inkster/ Dearborn	Dearborn
<b>Attendee Residency</b>							
Beverly Hills	1	1	1	1		1	1
Canton				1	1		
Dearborn						2	
Dearborn Heights	1	1			1		1
Farmington					1	1	1
Ferndale							
New Baltimore	1			1		1	1
Plymouth					1		
Northville	1	2	2				2
Royal Oak	1	1	1	1	1	1	1
Sterling Heights	1	1	1	1	1	1	1
Westland				1			
Unknown		1	1	1	3	1	5
<b>TOTALS</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>9</b>	<b>8</b>	<b>13</b>

**Friends of the Rouge**  
**2019 Report for ARC**  
**ROUGE RIVER WATER TRAIL**  
**January 1, 2019 through December 31, 2019**

Date	1/7/19	2/13/19	2/21/19	3/13/19	3/21/19	4/11/19	4/18/19	6/20/19	7/18/19	8/9/19	9/19/19	11/21/19	9/14/19	9/20/19	10/5/19
Event	Committee Meeting	Safety Summitt	Committee Meeting	Safety Meeting	Committee Meeting	Public Open House	Committee Meeting	Planning	Committee Meeting	WDM	Committee Meeting	Committee Meeting	Industrial Rouge Paddle	WDM Work Day	Group Paddle
City/Township	Westland	Inkster	Westland	Plymouth	Plymouth	Westland	Westland	Plymouth	Plymouth	Plymouth	Westland	Dearborn	Melvindale Dearborn Detroit River Rouge	Wayne	Wayne
Attendee Residency															
Allen Park		1													
Berkley															2
Birmingham												1			
Bloomfield Hills								1	1		1				
Canton		4													
Dearborn	2	3	2	4	2	3	2	2	1		3	2			4
Dearborn Heights	1	2	1	1		1	1	1	1	1	1	1			2
Detroit	2	1	2	1	1	1	1		1			1			1
Farmington						1	1				1	1			1
Ferndale															1
Garden City						1									1
Flat Rock	1					1	1					1			
Huntington Woods															1
Inkster	1	5	1		1		1				1				
Lansing											1				
Livonia	1					3		1				1			3
Melvindale															
Milford						1									
New Baltimore															
Northville						1						1			1
Oak Park															1
Plymouth	1	1	1		1	1	1	1	1	1	2	1			1
Royal Oak															1
Sterling Heights															



**Friends of the Rouge**  
**2019 Report for ARC**  
**ROUGE RIVER WATER TRAIL**  
**January 1, 2019 through December 31, 2019**

Date	1/7/19	2/13/19	2/21/19	3/13/19	3/21/19	4/11/19	4/18/19	6/20/19	7/18/19	8/9/19	9/19/19	11/21/19	9/14/19	9/20/19	10/5/19
Event	Committee Meeting	Safety Summitt	Committee Meeting	Safety Meeting	Committee Meeting	Public Open House	Committee Meeting	Planning	Committee Meeting	WDM	Committee Meeting	Committee Meeting	Industrial Rouge Paddle	WDM Work Day	Group Paddle
City/Township	Westland	Inkster	Westland	Plymouth	Plymouth	Westland	Westland	Plymouth	Plymouth	Plymouth	Westland	Dearborn	Melvindale Dearborn Detroit River Rouge	Wayne	Wayne
Attendee Residency															
Southgate															
Traverse City	1	1	1	1											
Van Buren															1
Warren															
Wayne		1				4				1	1				3
Westland	3	1	1			9	2					1			1
West Bloomfield															2
Unknown	2	4	3		2	5	4	8	4		4	2	25	10	
<b>TOTALS</b>	<b>15</b>	<b>24</b>	<b>12</b>	<b>7</b>	<b>7</b>	<b>32</b>	<b>14</b>	<b>14</b>	<b>9</b>	<b>3</b>	<b>15</b>	<b>13</b>	<b>25</b>	<b>10</b>	<b>27</b>

Friends of the Rouge  
2019 Annual Report for ARC  
LOCAL AND REGIONAL OUTREACH  
January 1, 2019 through December 31, 2019

Date	Event/Meeting Name	Location	FOTR Staff	Display	Participation	Presentation
2/9/2019	UM AOC students meeting with RRAC	Wayne	Petrella		Y	
2/12/2019	John Dingell Funeral	Dearborn	Petrella		Y	
2/22/2019	Presentation at Env Issues UM-D Class	Dearborn	Petrella			Y
2/23/2019	The Monarch: Rain Gardens to the Rescue Storytelling event	Detroit	Ross		Y	Y
3/7/2019	Rouge Rescue meeting with Westland	Westland	Ross, Heikkila, Craig		Y	
3/7/2019	City Nonprofit Gathering	Westland	Heikkila	Y	Y	
3/14/2019	Boy Scouts Volunteer Event	Livonia	Heikkila	Y	Y	
3/15/2019	GSI Tour and Dinner with Dr. Wolf	Detroit	Ross, Heikkila		Y	
3/16/2019	Green Your Neighborhood Community Forum	Detroit	Ross, Heikkila	Y	Y	Y
3/30/2019	Watershed Tour	West Bloomfield	Petrella, Muller, Vankerckhove	Y	Y	Y
4/10/2019	Riverside Park Rouge Rescue site visit	Plymouth	Ross, Heikkila		Y	
4/22/2019	St. Suzanne GSI Program for Middle Schoolers	Detroit	Ross			Y
4/22/2019	Heritage Park Earth Day Celebration	Farmington Hills	Heikkila	Y	Y	
4/23/2019	BOSCH Earth Day	Farmington Hills	Heikkila	Y	Y	
4/24/2019	BOSCH Earth Day	Plymouth	Heikkila	Y	Y	
4/25/2019	Hosted Bug Hunt w Farmington STEAM teachers	Farmington Hills	Cassady			Y
4/27/2019	Detroit Zoo Green Fest	Royal Oak	Petrella	Y		
4/29/2019	UM AOC student presentations	Ann Arbor	Petrella		Y	
5/2/2019	UMD Water Festival	Dearborn	Heikkila			Y
5/3/2019	Eliza Howell Rouge Rescue site visit	Detroit	Ross, Heikkila, Craig		Y	
5/9/2019	Lola Valley Rouge Rescue site visit	Redford	Ross, Heikkila		Y	
5/15/2019	Pure Michigan Luncheon	Plymouth	Petrella, McCormick, Ross, Cassady		Y	
6/4/2019	Land + Water Works Coalition: enviroscape lesson	Detroit	Ross, Heikkila	Y	Y	Y
6/8/2019	Art, Fish, Fun Festival	Orchard Lake	Heikkila, Bernstein	Y	Y	
6/19/2019	Rain Garden Ribbon Cutting event (ECN)	Detroit	Ross	Y	Y	
6/27/2019	Wayne County Conservation Stewards Meeting	Dearborn	Petrella		Y	
7/8/2019	St. Suzanne STEAM Camp planning meeting	Detroit	Bertrand, Cassady, Ross		Y	
7/13/2019	Eliza Howell Discovery Day	Detroit	Petrella, Van kerckhove, Jaja, Sosin	Y	Y	
7/17/2019	Oakland County Cisma	Waterford	Petrella, Ross		Y	Y
7/17/2019	Special meeting, Oakland County Commissioner	Waterford	Ross, Petrella		Y	Y
7/22/2019	Met w teacher re: Earth Force Process	Plymouth	Cassady			Y
7/22/2019	Tour for UM AOC students	Melvindale, Dearborn, Detroit	Petrella		Y	Y
8/2/2019	Hosted monitoring event with St. Suzanne STEAM camp	Detroit	Cassady			Y
8/10/2019	RGttr Bus Tour	Detroit	Ross, Heikkila		Y	Y

Friends of the Rouge  
2019 Annual Report for ARC  
LOCAL AND REGIONAL OUTREACH  
January 1, 2019 through December 31, 2019

Date	Event/Meeting Name	Location	FOTR Staff	Display	Participation	Presentation
8/24/2019	Environmental Fair	Beverly Hills	VanKerckhove, Martin	Y		
9/4/2019	Land + Water Works Coalition: lantern event	Detroit	Ross, Heikkila	Y	Y	
9/11/2019	CIS Water Festival	Bloomfield Hills	Heikkila			Y
9/18/2019	Met w Ellen Koehler at MSU Tollgate re: programming	Novi	Cassady		Y	
9/18/2019	Meeting w Bryon of Debbie Dingell's Office	Plymouth	McCormick, Petrella, Ross, Bertrand, Cassady		Y	
9/18/2019	Schoolcraft College School Daze Fall Festival	Livonia	Heikkila	Y		
10/4/2019	Stormwater Summit	Southfield	Ross, Bertrand, Bernstein, Heikkila	Y	Y	
10/4/2019	Great Global Cleanup	Detroit	Ross, Heikkila		Y	
10/5/2019	MSU Tollgate Festival	Novi	Heikkila, Van kerckhove	Y		
10/6/2019	MSU Tollgate Festival	Novi	Heikkila, Van kerckhove	Y		
10/10/2019	Rouge Burnniversary Celebration	Detroit	All	Y	Y	Y
10/10/2019	Oakland County CISMA	Waterford	Petrella		Y	
10/11/2019	Farmington STEAM native planting	Farmington	Heikkila		Y	
10/18/2019	GLRI Celebration	Dearborn	Ross, Petrella, Bertrand, McCormick	Y	Y	Y
10/25/2019	RGttR Celebration	Detroit	Ross, McCormick, Heikkila, Edwards		Y	Y
10/29/2019	USDN Bus Tour (Erb)	Detroit	Ross			Y
11/1/2019	Great Global Cleanup	Royal Oak	Ross, McCormick		Y	
11/7/2019	Dearborn Heights Garden Club	Dearborn Heights	Ross			Y
11/8/2019	Place-Based Education Conference	Flint	Cassady		Y	
11/12/2019	SEMI Wild meeting	Dearborn	Ross		Y	
11/14/2019	Clear Water: Detroit's River Revival film screening	Detroit	All	Y	Y	Y
11/14/2019	Oakland County CISMA	Waterford	Heikkila		Y	
12/10/2019	Great Global Cleanup	Detroit	Ross, Heikkila		Y	
12/12/2019	Oakland County CISMA	Waterford	Heikkila		Y	
12/12/2019	Beautification Commission of Southeast Michigan	Redford	Ross			Y
Monthly	Land + Water Works Coalition	Detroit	Ross		Y	