

City of Auburn Hills



Storm Water General Permit Biannual Report

**January 1, 2022 – December 31,
2023**

March 28, 2024

**City of Auburn Hills Storm Water General Permit – Biannual
Report January 1 2022 - December 31, 2023
Illicit Discharge Elimination Plan**

ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
1 Identifying and Eliminating Illicit Connections and Discharges	a. Review existing legal authority to implement the IDEP.	Completed – City Ordinance No. 686	The City has in place adequate legal authority and enforcement capability to allow it to find, track, and eliminate illicit connections.
	b. Establish a citizen reporting system.	Completed - The City has reviewed its reporting procedures and has determined that they are adequate. Community Newsletters Fall, Spring Summer 2022-2023	Please see Exhibit A. # to call DPW for problems encountered 11 reports
		3/28/2022 Shawn Keenan Water coming out of a sanitary cleanout in the hotel's parking lot. Private lot discharges to MDO ditch. It did not appear any water left the pond. Mainstay Suites	1650 N. Opdyke Spike with hotel Manager and enlists the General Manager. Instructed the GM to unclog the pipe, clean the parking lot, and storm system and pond. Hotel called a plumbing company to clear the blockage, clean the storm system and pond. 3/28/22 and 4/7/22
		5/10/2022 Shawn Keenan and Officer Jim Stinski and Martin MacLajczak Contractors installing a portion of a concrete driveway dumped a wheelbarrow of concrete wash into the City's storm drain. Omar Gomez, Alejandro Gomez, Lucio Sotelo Contractor for 2373 Hempstead. Contractor from California	A citation was issued to the contractor and informed about the proper method of disposing of concrete washwater. DPW staff cleaned the catch basins sumps in the area. Wastewater did not make it to the Clinton River. City staff informed about the proper method of disposing of concrete washwater. 5/23/2022
		6/8/2022 Shawn Keenan Residuum pouring gasoline down storm drain. Cuevas Valdivia	756 Providence A letter and 7 simple steps brochure was mailed to the resident. N/A N/A
		9/27/2022 Shawn Keenan and Devin Lang Spill from a delivery truck was cleaned up by the delivery truck company. Water and minor soap suds found in and around the CB from a leak that occurred on 9/25/22. Sals LTL Freight Great Lakes Electrical Supply Co. 1894 Emily Court (location)	Spike with the manager had them clean up the soap foam on the pavement and in the CB with a shop vac. Delivery company cleaned up the leak/spill from the pavement and vacated the CBs. Great Lakes Electrical Supply Co cleaned up the suds from the pavement and the catch basin. 9/27/2022
		12/22/2022 Shawn Keenan Plugged sanitary line. Water pooling next to unit. Water not going to street or river. College Heights	3501 Auburn Road Provided Julie Brown, Community Manager tip card on non-flushable wipes and fats, oil and grease. Manager of College Heights called plumber. The affected area was hydro vacuumed and lime was put down over the affected area. 12/22/2022
		2/8/2023 Shawn Keenan Metal shaving around dumpster and bits in the nearby catch basin. TSM	1175 N. Opdyke Violation letter sent. Phone call to Jeff with TSM insuring to sweep metal shavings and clean catch basin. No action necessary. NA
		6/1/2023 Justin Report of possible dumping behind building. No signs of dumping found on site. NA	No action needed to be taken. NA
		7/21/2023 Shawn Keenan 8075 Waukegan	Sanitizers instructed to building to stop. Sent violation notice and included concrete washout and 7 simple steps brochures. 7/21/2022
		7/26/2023 Shawn Keenan Found CB stalled with gravel washout/water from a bathroom renovation. No product remained in the sump due to rain event. Krendel & Company 586 638 8883 1423 N. Main Street, Rochester Hills, MI 48307	Called the company and spoke with the master Kelly to inform her of the violation and explained nothing can be poured into the CBs. Company to update their waste water disposal practices and educate their contractors. 7/26/2023
		8/10/2023 Shawn Keenan No cloudy water found entering the Galloway Creek. N/A	N/A N/A
		10/11/2023 Shawn Keenan, Devin Lang, Rob Cox, Dave Scott Water coming out of a sanitary cleanout in the hotel's parking lot. Private lot discharges to MDO ditch. It did not appear any water left the pond. Mainstay Suites	1650 N. Opdyke Spike with hotel GM and instructed to unclog the pipe, clean the parking lot, and storm system and pond. Notified the Fair Park OC WNC who notified Bill Beyer at MDO. The City instructed the GM to call a company to clear the blockage, clean the parking lot, catch basins, storm system and pond.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1 2022 – December 31, 2023 <i>Illicit Discharge Elimination Plan</i>			
ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
1. Identifying and Eliminating Illicit Connections and Discharges - Continued	e. Provide training, as needed, to appropriate City staff on illicit connection and discharges, safety issues, and naturally occurring phenomena.	Completed – Two employees received IDEP training during previous permit cycles.	Stephen Baldante, Director of DPW, and Jason Deman, Manager of Public Utilities received IDEP training during previous permit cycles.
	d. Review any existing water quality data for drains and water bodies in the City	Completed - Water quality data was reviewed during the development of the subwatershed management plans.	Completed in Fall/Winter 2005. The City also reviews the results of its monthly sampling of the Clinton River and periodic sampling of the Galloway Creek for E-coli
	e. Develop a priority schedule for the inspection for all City drain and outfalls	Completed – Priority schedules for inspections were developed in June 2006.	Inspections are scheduled to occur once during each permit cycle. The next inspection of City-owned outfalls is scheduled for the year 2024.
	f. Visual dry-weather inspections of stormwater outfalls at City-owned offices/facilities.	Completed - Inspections of all City facilities were completed in June 2006.	No illicit connections were found. No new City facilities were constructed since 2006.
	g. Perform visual inspections and dry weather screenings of City-owned and/or operated stormwater conveyance outfalls.	Completed - Inspections of City-owned outfalls were conducted in December 2022. Monthly water samples for E. coli were taken at four locations along the Clinton River.	The next inspection of City-owned outfalls is scheduled for the year 2024. Results for monthly sampling along the Clinton River continue to show a trend of higher E. coli levels occurring during rain events but returning to low levels during dry weather. Sampling records are maintained at Community Development.
	h. Trace illicit connections and owner notification.	No action was taken.	Based on IDEP Task 1g.
	i. Follow-up enforcement for non-correction.	No action was taken.	Based on IDEP Task 1g.
	j. Establish a tracking system to monitor progress in implementing the IDEP	Completed - The City's Public Works Director has been designated the point person to monitor progress.	Based on IDEP Task 1g.
	k. Investigate the feasibility/benefit of conducting base-line and then follow-up water quality monitoring in select drains and water bodies in the City (optional-task)	E-Coli samples have been taken on a monthly basis at four sites along the Clinton River and periodically at two locations along the Galloway Creek.	Tests indicate that E-coli levels for the Clinton River spike during rain events. The number of samples exceeding 1,000 has reduced over the years.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1, 2022 – December 31, 2023 <i>Illicit Discharge Elimination Plan</i>				
	ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
2	Develop and implement a program to minimize seepage from sanitary sewers into the applicant's separate stormwater drainage system.	a. Establish a storm sewer cleaning and inspection program.	Approximately 630 catch basins were inspected and cleaned in the year 2022 and approximately 580 catch basins were inspected and cleaned in the year 2023. City streets and parking lots are swept on an annual basis. Logged miles of curb cleaned and yards of material collected. These numbers are estimated based on the sweeper operator resetting the trip odometer when cleaning begins and an estimated amount of material dumped after street sweeping. During this permit cycle street sweeping logs indicated approximately 479 miles of curb has been swept from 1-1-22 to 12-31/2022 with 390,250 pounds of debris. In 2023 there were 308.3 miles of curb swept while collecting 288,340 pounds of debris collected City parking lots are inspected and swept on an as-needed basis. 26 City Parking Lots were swept and cleaned in 2022 and 26 were also swept and cleaned in 2023	Inspections revealed no signs of illicit discharges or illicit connections. Inspection records are on file. All debris collected is properly stored at the DPW yard and transported to the Oakland Heights Development Landfill. Inspection records are on file.
		b. Establish a sanitary sewer cleaning and inspection program.	Approximately 72,070 feet of sanitary sewer pipes were televised inspected and approximately 100,895 feet of sanitary pipes were cleaned in 2022. Approximately 100,895 feet of sanitary sewer pipes were televised inspected and approximately 132,006 feet of sanitary sewer pipes were cleaned in 2023.	Inspection records are on file.
		c. Identify and report failed OSDS within the City.	The City has a reporting system (hotline) in place that allows residents, businesses, and passers-through to call the DPW directly if a problem is encountered.	No failed systems were reported from City employees working out in the field or the public.
		d. Enforce the City Code, which requires owners of OSDS to connect to the City's sewer system if it is available and the connection point is within 200 feet of the City's sewer system.	There were no existing (old) residential properties connected to the public sanitary sewer system from 1-1-2022 through 12-31-23.	No connections were made during this reporting cycle for old existing houses.
		e. Provide information to owners of OSDS on the proper use and maintenance of their disposal system.	The City has available to its residents MSU Extensions Managing Your Septic System information document.	Please see Exhibit B.
3	Develop a method for determining the effectiveness of the illicit discharge elimination activities which shall, at a minimum, result in the inspection of each stormwater point source every five years.	a. Perform visual inspections and dry weather screening of City-owned and/or operated stormwater conveyance outfalls.	Completed – Please see Task 1g.	Based on IDEP Task 1e.
		b. Establish a tracking system to monitor progress in implementing the IDEP.	Ongoing.	Please see comments listed under IDEP Element I, Task b and Task f.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1, 2022 – December 31, 2023 <i>Illicit Discharge Elimination Plan</i>			
ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
4 Prepare and update the map of the location of each known stormwater point source and the respective receiving water or drainage system	a. Review the current procedures which identify, record, map, and inspect outfalls from new construction.	The current procedures have been reviewed.	Procedures have been found to be adequate.
	b. Update drainage system map, as needed, based on field observations.	The City updates its GIS layers annually.	The City's GIS utility layers are updated on an annual basis. There are no new nested jurisdictions. The City is not covering any nested jurisdictions under its permit.
	c. Inventory and identify ownership of the significant stormwater conveyances within the City and address ownership of any "orphan" drains.	No orphan drains are located in the City.	Based on IDEP Task 3a. Also, see the comments under IDEP Task 4b.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1, 2022 – December 31, 2023 <i>Public Education Plan</i>			
ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
1 Watershed Stewardship: Educate the public about their responsibility and stewardship in their watershed	a. Articles in municipal newsletters	Articles were published in the following municipal newsletters: Winter 21/22 Spring/Summer 22, Fall 22 and Winter 22/23 and Spring/Summer 23 Community Newsletters. All were mailed out to Citywide and posted on the City website.	Please see Exhibits A and C.
	b. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The website addresses include: auburnhills.org/stormwater.php, crwc.org, and semcog.org/stormwater.aspx.
	c. Water quality display and/or banners	A water quality display was set up at the Fall Festivals (10-8-22 and 10-7-23 (200+ each).	Please see Exhibit D. Various educational material was available for attendees.
	d. Clean water informational materials	The water quality protection information is made available in the City Hall lobby and was on display and distributed at the Fall Festivals (10-8-22 and 10-7-23, 200+ each). Materials were also handed out at events such as the River Clean-up day.	Please see Exhibits D and E. The displays included the "Seven Simple Steps" display and other educational material.
	e. Cable access/community billboards	The City also runs the SEMCOG "Seven Simple Steps" PSAs on the City's cable station as often as possible. The specific messages were coordinated using the SEMCOG calendar.	Please see Exhibit F. Messages are included in the loop of programming.
	f. River Day	The City held a fishing derby on 6-11-22. The fishing derby is an event to get residents connected to the river. The 2023 fishing derby was on 6-10-23.	Over 100 kids participated in the 2022 and 2023 Derby. Total attendance for the event was estimated at over 120 people. Please see Exhibits G.
	g. Clinton Clean-Up	The City held the Clinton River Clean-Up on 9-17-22 and 9-22-23. The City also expanded its Keep It Clean program to include river clean-ups.	Please see Exhibits H.
	h. Clinton River Stream Leaders program	There were no streamleaders events for 2022 and 2023 but are planned for 2025	
	i. Water resource protection workshops (optional)	Stormwater Workshop held at City Hall in 2023	Stormwater educational materials to residents and council members
	j. Signage at road/stream crossing	Task completed during previous permit cycles.	For additional information, please see the 2006 & 2007 Annual Report.
	k. Southeast Michigan Partners for Clean Water mass media effort	Various media efforts were made. The City also participates on the Southeast Michigan Partners for Clean Water Committee, Oakland County Water Resources Commissioner's Office, Alliance of Rouge Communities, and Friends of the Rouge.	Please see Exhibit J.

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Public Education Plan

ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
2 Storm Drainage Systems and Waterways: <i>Educate the public on the location of residential separate collection system catch basin, the waters of the state where the system discharges, and the potential impacts from the pollutants.</i>	a. Storm Drain Labeling	New developments are required to install pre-cast storm drain covers with the message "No Dumping Drains to River".	Completed and ongoing.
	b. Articles in municipal newsletters	Articles were published in the following municipal newsletters: Winter 21/22, Spring/Summer 22, and Winter 22-23, and Spring/Summer 23 Community Newsletters. All were mailed out to Citywide and posted on the City website.	Please see Exhibits A and C.
	c. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The website addresses include: auburnhills.org/departments-of-public-services/stormwater , crwc.org .
	d. Water quality display and/or banners	A water quality display was set up at the Fall Festivals (10-8-22 and 10-7-23: 200+ each).	Exhibit D. Educational material provided.
	e. Clean water informational materials	The water quality protection information is made available in the City Hall lobby and was on display and distributed at the Fall Festivals (10-8-22 and 10-7-23, 200+ each).	Please see Exhibits D and E. The displays included the "Seven Simple Steps" display and other educational material.
	f. Cable access/community billboards	The City also runs the SEMCOG "Seven Simple Steps" PSAs on the City's cable station as often as possible. The specific messages were coordinated using the SEMCOG calendar.	Please see Exhibit F. Messages are included in the loop of programming.
	g. River Day	The City held a fishing derby on 6-11-22 and 6-10-23. The fishing derby is an event to get residents connected to the river.	Over 100 kids participated in the 2022 and 2023 Derby. Please see Exhibits G.
	h. Clinton Clean-Up	The City held the Clinton River Clean-Up on 9-17-22 and 9-16-23. The City also expanded its Keep It Clean program to include river clean-ups.	Please see Exhibits H.
	i. Clinton River Stream Leaders program	Streamleader Events planned in 2025 with Avondale Schools.	The Stream Leader site will be located at Riverside Park in 2025.
	j. Southeast Michigan Partners for Clean Water mass media effort	Various media efforts were made. The City also participates on the Southeast Michigan Partners for Clean Water Committee, Oakland County Water Resources Commissioner's Office, Alliance of Rouge Communities, and Friends of the Rouge.	Please see Exhibit I.
3 Reporting of Illicit Discharges: <i>Encourage the public reporting of the presence of illicit discharges or improper disposal of materials.</i>	a. Promote the City's complaint and response system	The City has a reporting system (hotline) in place that allows residents, businesses, and passers-through to call the DPW. Currently, the DPW daytime phone number is published in the City calendar and distributed to the City at large. The hotline number was published in the Fall 22, Spring/Summer 22 Winter 22/23, Spring/Summer 23, and Winter 23/24 Community Newsletters.	Please see comments listed under IDEP Element 1, Task b Please See Exhibit A.
	b. Articles in municipal newsletters	Articles were published in the following municipal newsletters: Winter 21/22 Spring/Summer 22 Fall 22, and Winter 22/23, and Summer 23 Community Newsletters. All were mailed out to Citywide and posted on the City website.	Please see Exhibits A and C.
	c. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The websites: auburnhills.org/departments/departments_of_public_services/stormwater and semcog.org
	d. Water quality display and/or banners	A water quality display was set up at the Fall Festivals (10-8-22 and 10-7-23, 200+ each).	Please see Exhibit D. Various educational material was available for attendees.
	e. Cable access/community billboards	No action was taken.	
	f. Water resource protection workshops (optional)		

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Public Education Plan**

ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
4 Common Home and Yard Stormwater Pollutants: <i>Educate the public on the need to minimize the amount of waste washed into nearby catch basins.</i>	a. Articles in the municipal newsletters	Articles were published in the following municipal newsletters: Winter 21/22, Spring/Summer 22, Fall 22, and Winter 22/23, & Spring/Summer 23 Community Newsletters. All were mailed out to Citywide and posted on the City website.	Please see Exhibits A and C.
	b. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The website addresses are: auburnhills.org , crwc.org , and semcog.org/stormwater.aspx .
	c. Water quality display and/or banners	A water quality display was set up at the Fall Festivals (10-8-22 and 10-7-23 : 200+ each).	Please see Exhibit D. Various educational material was available for attendees.
	d. Clean water informational materials	The water quality protection information is made available in the City Hall lobby and was on display and distributed at the Fall Festivals (10-8-22 and 10-7-23, 200+ each).	Please see Exhibits D and E. The displays included the "Seven Simple Steps" display and other educational material.
	e. Cable access/community billboards	The City also runs the SEMCOG "Seven Simple Steps" PSAs on the City's cable station as often as possible. The specific messages were coordinated using the SEMCOG calendar.	Please see Exhibit F. Messages are included in the loop of programming.
	f. Clinton River Stream Leaders program	Stream leaders program scheduled in 2025.	
	g. Southeast Michigan Partners for Clean Water mass media effort	Various media efforts were made. The City also participates on the Southeast Michigan Partners for Clean Water Committee, Oakland County Water Resources Commissioner's Office, Alliance of Rouge Communities, and Friends of the Rouge.	Please see Exhibit J.
	h. Water resource protection workshops (optional)	Events planned in 2025	
5 Waste Disposal: <i>Educate the public on the availability, location, and requirements of facility disposal or drop-off of household hazardous waste, yard waste, and travel trailers.</i>	a. Household hazardous waste collection day	Between 250 and 300 residents dropped off HHW and Electronic items during each HHW collection day held in 2022 and 2023. Battery disposal buckets are located at four sites for city operations and at the library for City employees.	Please see Exhibits K. Approximately 13,010 lbs of HHW and 10,590 lbs of electronic waste were collected and properly disposed of in 2023 and approximately 11,942 lbs of HHW and 10,393 pounds of electronics was collected and properly disposed of in 2022.
	b. Articles in municipal newsletters	Articles were published in the following municipal newsletters: Winter 21/22 Spring/Summer 22, Fall 202 and Winter 22/23 and Summer 23 Community Newsletters. All were mailed out to Citywide and posted on the City website.	Please see Exhibits A and C.
	c. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The website addresses include: auburnhills.org , crwc.org , and semcog.org/stormwater.aspx .
	d. Clean water informational materials	The water quality protection information is made available in the City Hall lobby and was on display and distributed at the Fall Festivals (10-8-22 and 10-7-23 200+ each).	Please see Exhibits D and E. The displays included the "Seven Simple Steps" display and other educational material.
	e. Cable access/community billboards	The City also runs the SEMCOG "Seven Simple Steps" PSAs on the City's cable station as often as possible. The specific messages were coordinated using the SEMCOG calendar.	Please see Exhibit F. Messages are included in the loop of programming.
	f. Southeast Michigan Partners for Clean Water mass media effort	Various media efforts were made. The City also participates on the Southeast Michigan Partners for Clean Water Committee, Oakland County Water Resources Commissioner's Office, Alliance of Rouge Communities, and Friends of the Rouge.	Please see Exhibit J.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1, 2022– December 31, 2023 Public Education Plan			
ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
6 Riparian Land Management: <i>Educate the public concerning the management of riparian lands to protect water quality.</i>	a. Articles in the municipal newsletters	No articles were published during this reporting cycle. The topic was covered at water festivals, through SEMCOG Public Education, Alliance of Rouge Communities, and Oakland County.	Please see Exhibit J.
	b. Web site information	The City provides information on its own website and promotes the Clinton River Watershed Council and Southeast Michigan Partners for Clean Water websites.	Please see Exhibits A, C, and G. The website addresses include: auburnhills.org/departments/departments_of_public_services/stormwater
	c. Clean water informational materials	The water quality protection information is made available in the City Hall lobby and was on display and distributed at the Fall Festivals (10-8-22 and 10-7-23, 200+ each).	Please see Exhibits D and E. The displays included the "Seven Simple Steps" display and other educational material.
	d. Cable access/community billboards	The City also runs the SEMCOG "Seven Simple Steps" PSAs on the City's cable station as often as possible. The specific messages were coordinated using the SEMCOG calendar.	Please see Exhibit F. Messages are included in the loop of programming.
	e. Water quality display and/or banners	A water quality display was set up at the Fall Festivals (10-8-22 and 10-7-23, (200+ each).	Please see Exhibit D. Various educational material was available for attendees.
	f. River Day	The City held a fishing derby on 6-11-22 and 6-10-23. The fishing derby is an event to get residents connected to the river.	Over 100 kids participated in the 2022 and 2023 Derby. Total attendance for the event was estimated at over 120 people. Please see Exhibits G.
	g. Water resource protection workshops (optional)	A stormwater workshop was held at City Hall in 2023	The workshop was attended by Council members and open to the public.
	h. Southeast Michigan Partners for Clean Water mass media effort	Various media efforts were made. The City also participates on the Southeast Michigan Partners for Clean Water Committee, Oakland County Water Resources Commissioner's Office, Alliance of Rouge Communities, and Friends of the Rouge	Please see Exhibit J.

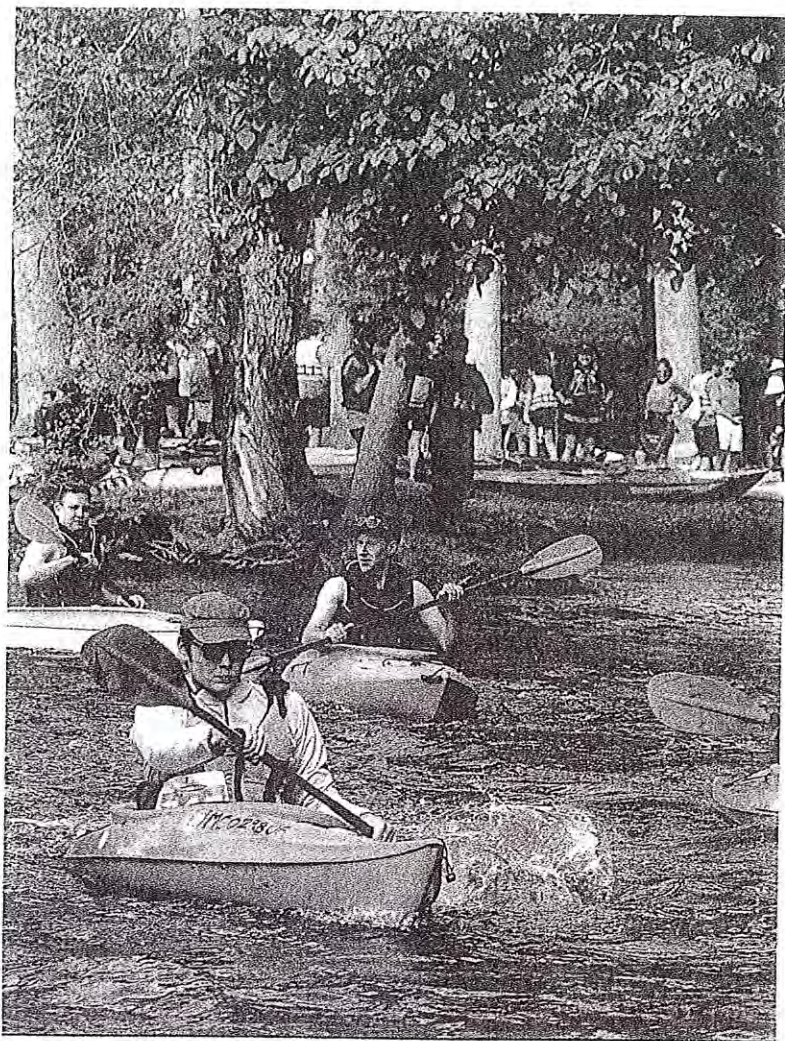
**City of Auburn Hills Storm Water General Permit – Biannual
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Additional Actions

ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
1 Watershed Stewardship	a. Implement soil erosion and sedimentation control education programs.	The City has made available to the public, at the Community Development Department, Oakland County Drain Offices "New Homeowner's Guide to Soil Erosion Control" brochures.	Please see Exhibit L.
	b. Encourage Healthy landscape practices.	The City Newsletter had articles such as Maintaining a Health Lawn Summer 23	Please see Exhibit A.
	c. Educate the public on proper pet waste disposal.	An article was published in the Spring/Summer 2022 and Spring/Summer 2023 municipal newsletters (Only Rain in the Drain). The City also has pet waste disposal devices at River Woods Park and Riverside Park.	Please see Exhibits A and N.
	d. Educate the public about the fine for littering.	The City installed signs along the road informing the public about the fine for littering.	Please see Exhibit O.
	e. Educate staff on winter road maintenance techniques and other best management practices.	A preseason DPW staff meeting was conducted to reemphasize road plowing and salting procedures and new staff members were trained in detail including "ride alongs" with an experienced operator prior to being assigned solo duties. The City also utilizes brine to help reduce the amount of salt needing to be applied to the roads.	Please see Exhibit P.
	f. Educate residents and businesses about proper detention pond maintenance.	The ARC developed a Detention Pond Maintenance Manual which is available at the Community Development Department and distributed to businesses whose ponds need attention.	Please see Exhibit Q.
	g. Promote and encourage low-impact development and sustainable stormwater management techniques.	The City informs the development community about the MI LID manual.	Please see Exhibit R.
	h. Educate residents about the human relationship with the environment and ecosystems.	The City has provided an assortment of environmental educational programs at E. Dale Fisk Hawk Woods Nature Center, including the Fall Festival.	Please see Exhibit S.
	i. Fostering Stewardship (Noncommittal Optional)	The City of Auburn Hills and the City of Rochester Hills held Paddlepalooza on 6-4-22 and 6-3-23. This Kayaking/Canoeing event reconnected people to the Clinton River and demonstrated to residents the recreational opportunities the river has to offer, giving a reason to keep our waters clean.	Please see Exhibits T.

City of Auburn Hills Storm Water General Permit – Biannual Report January 1, 2022 – December 31, 2023 <i>Additional Actions</i>			
ELEMENT	TASK/COMMITMENT	ACTION TAKEN	COMMENTS
3 Common Home and Yard Stormwater Pollutants	a. Grounds Maintenance.	The City has a "Keep It Clean" program. The program is designed to keep the City's roadsides, open areas, parks, and waterways clean and attractive. Participants "adopt" both sides of a section of road, or an overall section of the park or open space, or river segment to clean up over a two-year period.	Borg Warner and Vitesco both attended events in 2022 and 2023 to assist with clean-up along the Clinton River and Riverside Park and Riverwoods Park. Exhibit H.
	b. Habitat Improvement Program.	The City of Auburn Hills is an active participant in the Clinton River Coldwater Conservation Project and sits on the CRCCP Steering Committee. The City restored approximately one acre of wetlands along the Galloway Creek.	This project was one of twelve Clinton River AOC PAC recommended projects designed to help delist the Habitat BUI in the Clinton River Watershed.
	c. Salt Storage & Application.	The City has the appropriate salt storage facility. The City calibrates the salt spreaders each year before the winter season to assure proper application rates.	
	e. Fleet Maintenance.	The City performed approximately 428 oil changes and/or inspections from 1-1-22 to 12-31-23. All vehicles are checked for leaks while up on the hoist. The City has its used motor oil picked up and recycled.	Maintenance records at DPW.
4 Storm Drainage Systems and Waterways	a. Roadside Drainage Ditch Maintenance	The City cleaned approximately 151 lineal feet of roadside drainage ditches from were cleaned between 1-1-22 to 12-31-23	Maintenance records are on file at DPW.
5 Waste Disposal	a. Unused or expired prescription medication collection	Citizens can dispose of their unused or expired prescription medication safely in the Operation Medicine Cabinet at the Auburn Hills Police Department.	The unused or expired prescription medication collected is properly disposed of. Please see Exhibit U.
6 Overall effectiveness of the City's programs	The effectiveness of the IDEP is demonstrated by the tasks completed in the approved IDEP/PEP, the partnerships formed with neighboring communities to communicate and strategize on combined approaches for watershed solutions, and the interest demonstrated by residents in maintaining good water quality within the community. The majority of City residents have a connection to the Clinton River which offers some of the City's prime recreational opportunities in the community. Residents and business owners have a higher understanding of the importance of water quality in our community, thus have a strong interest in understanding their role in maintaining water quality. This is demonstrated by the number of calls to the City's "Pollution Prevention Hot Line" when it is suspected that pollutants are reaching our local waterways. During each permit cycle, the City of Auburn Hills has successfully completed the required IDEP/PEP activities and staff has observed that residents have a stronger understanding of their role in protecting water quality than was demonstrated prior to its public education activities. With the City offering more activities on and along its waterways like the City's Fishing Derby and Paddlepalooza, the City anticipates an even greater understanding from its citizens and businesses about their role in protecting water quality. The City is also experiencing a greater number of residents, businesses organizations, and employees interested in participating in water-based recreational events and clean-up events.		

EXHIBIT A



FALL 2019 11TH ANNUAL PADDLEPALOOZA

On the cool Saturday morning of June 1st, 128 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 11th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Banquet Center.

This year 25 men participated in the kayak race which was won by David Ives. The most competitive race of the day occurred in the women's kayak race that had ten entries. Kristy Jacobsen finished 22 seconds ahead of Gwenn Stevenson to take first place. Of the six teams that entered the canoe race the team of David Fiddes and Violet Fiddes took home the first place trophy.

As for the outcome of the race for the Mayor's Challenge Cup, we're pleased to announce that Auburn Hills Mayor Kevin McDaniel and James Stevens, successfully defended the Mayor's Challenge Cup over team Rochester Hills. Auburn Hills holds an edge over Rochester Hills who had dominated the race during the first four years.

The remaining 81 paddling enthusiasts took a more steady pace down the river to better enjoy the scenic views and wildlife often seen throughout the river's riparian corridor.

Once paddlers reached the end, they all enjoyed a nice lunch on the patio of River Crest Banquet, while swapping stories and tall tales of their adventure down the Clinton River.



RACE RESULTS

WINNERS IN THE KAYAK RACE - MEN'S DIVISION

1. David Ives 1:10.45
2. Rick Ensley 1:12.17
3. Gerald Dihle 1:13.07

WINNERS IN THE KAYAK RACE - WOMEN'S DIVISION

1. Kristy Jacobson 1:17.03
2. Gwenn Stevenson 1:17.25
3. Linda Gamage 1:18.00

WINNERS IN THE CANOE RACE

1. David Fiddes and Violet Fiddes 1:19.39
2. Parker Jones and Nick Scott 1:21.23
3. Jason Boggs and John Dunivant 1:29.20

THANK YOU SPONSORS & SUPPORTERS:

BASS PRO SHOPS • CLINTON RIVER CANOE & KAYAK •
CLINTON RIVER WATERSHED COUNCIL • FRESH THYME •
HI-TECH MOLD & ENGINEERING INC. • MOOSEJAW •
RIVERCREST ORTHODONTICS • SUMMIT SPORTS •
SIMPLE ADVENTURES WATERSPORTS • GENISYS CREDIT UNION •
RIVER CREST BANQUET FACILITY • YATES CIDER MILL •
HUBBLE • ROTH & CLARK •

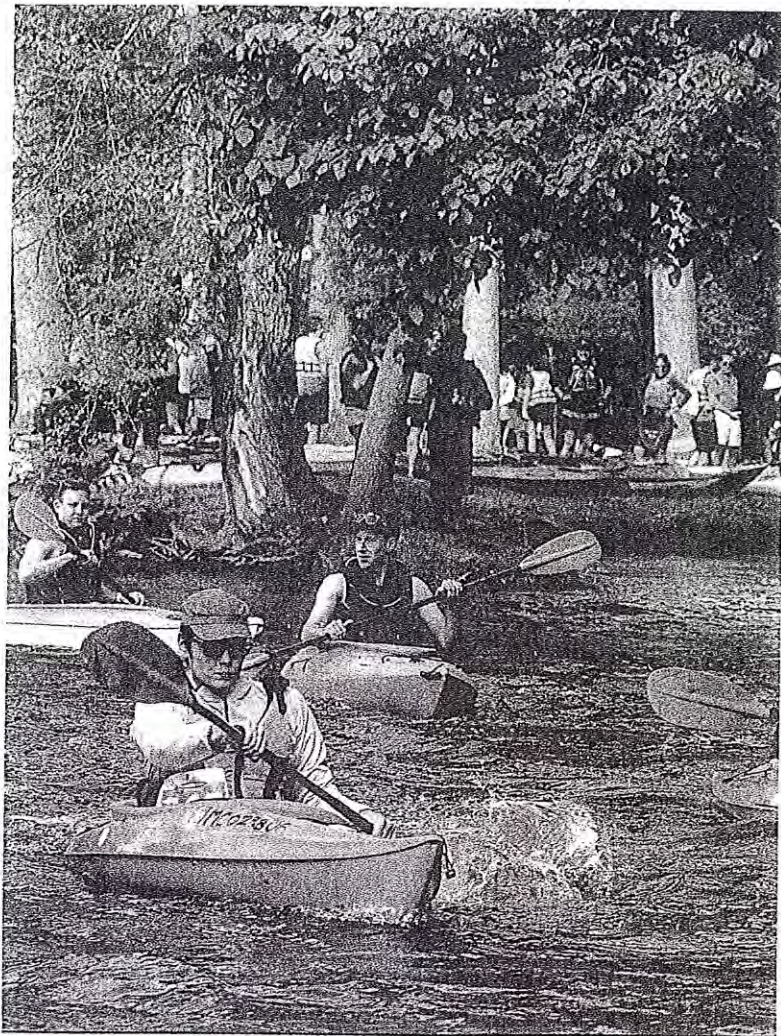
REPORT POLLUTION

SEE POLLUTION IN YOUR AREA?

CONTACT CITY OF AUBURN HILLS COMMUNITY
DEVELOPMENT DEPARTMENT TO MAKE A REPORT.

CALL TODAY AT 248-364-6900

EXHIBIT A



FALL 2019 11TH ANNUAL PADDLEPALOOZA

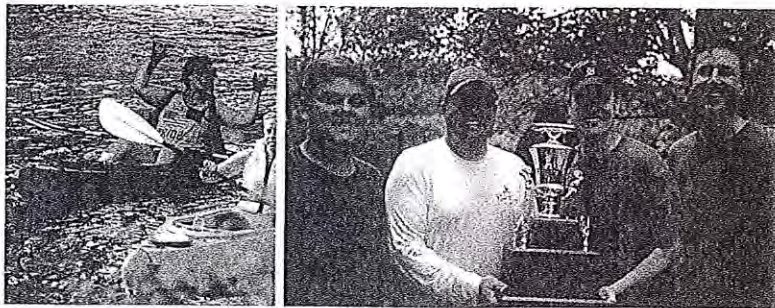
On the cool Saturday morning of June 1st, 128 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 11th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Banquet Center.

This year 25 men participated in the kayak race which was won by David Ives. The most competitive race of the day occurred in the women's kayak race that had ten entries. Kristy Jacobsen finished 22 seconds ahead of Gwenn Stevenson to take first place. Of the six teams that entered the canoe race the team of David Fiddes and Violet Fiddes took home the first place trophy.

As for the outcome of the race for the Mayor's Challenge Cup, we're pleased to announce that Auburn Hills Mayor Kevin McDaniel and James Stevens, successfully defended the Mayor's Challenge Cup over team Rochester Hills. Auburn Hills holds an edge over Rochester Hills who had dominated the race during the first four years.

The remaining 81 paddling enthusiasts took a more steady pace down the river to better enjoy the scenic views and wildlife often seen throughout the river's riparian corridor.

Once paddlers reached the end, they all enjoyed a nice lunch on the patio of River Crest Banquet, while swapping stories and tall tales of their adventure down the Clinton River.



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CALL TODAY AT 248-364-6900

Fall 2022

CLINTON RIVER CLEAN UP

SATURDAY, SEPTEMBER 17 | 9:00 AM - 12:00 PM
RIVER WOODS PARK



DETAILS

Volunteers will meet at River Woods Park and are advised to wear work clothes and sturdy shoes.

For more information, please contact Shawn Keenan, City Planner: 248-364-6926 or skeenana@auburnhills.org.

Advance notification of participation is preferred, but not required.

WHY CLEAN UP?

To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



HALLOWEEN MOVIE NIGHT

FRIDAY, OCTOBER 7 | DUSK
KNIGHT AMPHITHEATER | RIVERSIDE PARK





BUSINESSES, STUDENTS AND OUTDOOR ENTHUSIASTS STEP UP TO **KEEP OUR WATERS CLEAN**

On the cool Saturday morning of September 17th, ten employees and family members from Martinrea International and 12 super-students, their teacher, and parents from Van Hoosen Middle School worked together to clean up a one-half mile stretch of the Clinton River, River Woods Park, and the City's Skate Park. Their two hours of dedicated work that day resulted in the removal of over 25 bags of trash, one chair, a foam mattress, a car tire, PCV pipes, and other large items from the river, riverbank, and parks.

One month later, on October 22nd, 17 volunteers from Trout Unlimited's Vanguard Chapter and Challenge Chapter donned their waders and entered the waters at River Woods Park to remove trash and other debris that accumulated in the river. Their efforts resulted in the removal of 15 bags of garbage, one garden hose, five shopping carts, and an assortment of other debris from the river.

The commitment made by these community-minded stewards of our watershed not only helps keep our river clean for all to enjoy but also protects wildlife and wildlife habitat for this generation and generations to come. This is important because an increasing number of people that live, work, or drive through Auburn Hills now realize the beautiful river system that exists right here in Auburn Hills for their fishing, kayaking, and viewing pleasure.

The City of Auburn Hills would like to thank all the volunteers who participated in this year's clean-up efforts.

To learn what you can do to improve the quality of our local rivers, lakes, and streams, please visit the Community Development Department's Stormwater webpage at www.auburnhills.org/stormwater.php. or the Clinton River Watershed Council's website at www.crw.org.

To learn more about Trout Unlimited and all the good work they do in our watershed, please visit www.vanguardtu.org and www.challengechapter.org



Martinrea International



Van Hoosen Middle School



Trout Unlimited

LOCAL BUSINESSES STEP UP TO KEEP OUR WATERS CLEAN



On the sunny Saturday morning of September 18th, a group of 30 volunteers worked together with past and present City employees to keep the Clinton River clean.

Eighteen volunteers made up of employees and family members from Martinrea International, residents of the watershed, and City employees past and present met at River Woods Park to clean up the stretch of the Clinton River that flows from Squirrel Road to M-59, including River Woods Park and the Skate Park. Their endeavors

resulted in the removal of 26 bags of trash, one mountain bike, one car tire, the top half of a 30-gallon drum, and a large item made of plastic.

The second group of 12 volunteers were employees and family members from Genisys Credit Union. Their group removed over three bags of trash and debris that had collected in the boulders and branches along the banks and bed of the river in Riverside Park.

The time and effort these volunteers dedicated to the community that day goes a long way in helping the City preserve and protect our valued water resources for this generation and future generations to come.

The City of Auburn Hills would like to send out a special thank you to all the volunteers who participated in this year's clean-up effort.

To learn what you can do to improve the quality of our local rivers, lakes, and streams please visit the Community Development Department's Stormwater webpage at www.auburnhills.org/stormwater.php or the Clinton River Watershed Council's website at www.crwcc.org.



COMMUNITY DEVELOPMENT

COMMUNITY DEVELOPMENT
1827 N. SQUIRREL RD. | AUBURN HILLS 48326

PHONE 248-364-6900
FAX 248-364-6939

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

MAINTAIN A HEALTHY LAWN

MOW HIGH, RECYCLE CLIPPINGS

- Mow at least three inches high
- Return clippings to recycle nutrients
- Sweep or blow clippings from walks and driveways onto the lawn
- Taller grass will discourage weeds and promote deeper roots, helping the lawn survive droughts

BE SMART WITH FERTILIZER

- Be patient in the spring - wait until May to fertilize
- Don't fertilize if the ground is frozen or saturated with water
- Choose lawn fertilizers with low or no phosphorus (the middle number) and follow the directions
- Confirm spreader setting before applying
- Don't fertilize or discharge clippings near lakes, rivers, streams or storm drains
- Sweep fertilizer granules from walks and driveways onto the lawn
- Wash your spreader on the grass

WATER REMINDERS

- Watering should not produce puddles. Lighter, more frequent watering is best
- Brown lawns are OK; dormancy is a natural response to drought; however, some water may be necessary in a drought of more than a month

For more healthy lawn care tips please visit
MSU Turfgrass Science website at www.turf.msu.edu

DON'T DUMP

Enjoying the summer in your recreation vehicle? Protect the environment at the same time! Dispose of waste properly; take all waste to a facility – don't dump!

The facility below accepts RV waste:
Addison Oaks County Park
1480 W. Romeo Road, Leonard, MI

\$30 | Call for hours: 248-693-2432

SUMMER CAR MAINTENANCE

Washing cars in your driveway can add pollutants to our waterways. Wash water that enters storm drains often contains detergents, oil, grease, heavy metals, and dirt. Vehicle fluids dumped down a storm drain or directly into a waterway can cause serious problems. The amount it takes to fill your automobile's engine can form an eight acre oil slick in a river. Other vehicle fluids are poisonous to people, fish, and wildlife.

WASHING TIPS

- Wash your car at commercial carwashes that use water efficiently and dispose it properly
- Remove dirt around wheels first with a wire brush. Collect the soil with a broom and dispose of it in a manner that will keep it out of storm drains
- Use non-phosphate biodegradable detergents and mild soaps, such as vegetable oil-based soaps
- Wash one section of the car at a time and rinse it quickly using a pistol grip nozzle with high pressure and low volume

MAINTENANCE TIPS

- If you change vehicle fluids at home, take the waste fluids to a recycling center or an oil change facility
- Always use a drip pan under your work and use funnels when transferring fluids
- Never mix waste oil with gasoline, solvents or other liquid
- Change vehicle fluids in the garage whenever possible
- If a spill occurs, pour kitty litter, saw dust or cornmeal on spill to absorb the liquid. Place the waste material in a strong plastic bag and dispose of it with your trash

COMMUNITY DEVELOPMENT

COMMUNITY DEVELOPMENT
1827 N. SQUIRREL RD. | AUBURN HILLS 48326

PHONE 248-364-6900
FAX 248-364-6939

BUSINESS HOURS:
MONDAY - FRIDAY | 8:00AM - 5:00PM

PREVENT WATER POLLUTION

Winter 2022

Winter brings many fun activities, such as sledding, ice hockey, ice skating, and skiing. However, winter also means mounds of snow to shovel and layers of ice to remove from our sidewalks and driveways. We often make the job easier by applying deicers like salt. Besides sodium chloride, many deicers also contain chemicals that dissolve and flow into street drains, which lead directly to our rivers and endanger aquatic life. You can help protect our aquatic ecosystems by following these tips to reduce salt use and prevent water pollution.

REMOVE THE ELEMENTS

Remove as much snow and ice as possible before applying any deicing material. Use a shovel to remove snow and break up the ice before adding more material.

EXPLORE ALTERNATIVES

Calcium magnesium acetate (CMA) was developed as a deicing alternative because it has fewer adverse environmental impacts, and doesn't cause corrosion.

LIMIT ACCESS

You can also reduce salt use by limiting access to your home through one entrance. For every doorway that is not used, there will be less salt running into the catch basin in your street.

REDUCE SALT USE

By limiting the amount of salt we use on sidewalks and driveways, we reduce the amount of polluted stormwater washing into our waterways.

REPORT POLLUTION

To report pollution, please call the City of Auburn Hills, Community Development Department at 248-364-6900.

ONLY RAIN IN THE DRAIN

Storm drains lead directly to our lakes and streams. Oil, pet waste, leaves, or dirty water from washing your car that enters a storm drain gets into our lakes and streams. With almost five million people living in Southeast Michigan, we all need to be aware of what goes into our storm drains. Remember, only rain in the drain!

Here are some simple steps you can take to help keep pollutants out of storm drains and keep our water clean.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.

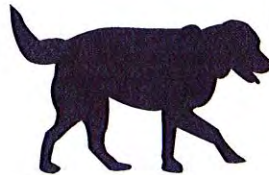


Spring / Summer 2023

Do you have extra fertilizer, grass clippings, or dirt on your driveway? Sweep it back onto your lawn. Hosing your driveway sends these pollutants into storm drains that lead to our lakes and streams.



Volunteer to label storm drains in your neighborhood to inform residents that storm drains flow directly to our lakes and streams. Encourage citizens to contact their local community for more information on storm drain stenciling programs.



Pick up after your pets! Pet waste contains bacteria that are harmful to us and our water. Leaving it on the sidewalk or lawn means the bacteria will be transported into the storm drains, and then into our lakes and streams.

2023 IMPORTANT DATES FROM THE ASSESSING OFFICE

MARCH 13

BOARD OF REVIEW
ASSESSMENT PROTESTS
9AM - 12PM & 1-4PM
ADMIN CONFERENCE ROOM
CITY HALL

MARCH 14

BOARD OF REVIEW
ASSESSMENT PROTESTS
2 - 5PM & 6-9PM
ADMIN CONFERENCE ROOM
CITY HALL

MAY 31

LAST DAY TO FILE
COMMERCIAL, INDUSTRIAL,
PERSONAL PROPERTY
ASSESSMENT APPEALS TO MI
TAX TRIBUNAL

JUNE 1

PRINCIPAL RESIDENCE &
ELIGIBLE DEVELOPMENT
PROPERTY EXEMPTION
DEADLINE FOR SUMMER
TAX LEVY

JULY 18

BOARD OF REVIEW
CLERICAL ERRORS,
VETERANS EXEMPTIONS,
& ECONOMIC HARDSHIP
APPEALS | 11AM
ADMIN CONFERENCE ROOM

JULY 31

LAST DAY TO FILE
RESIDENTIAL PROPERTY
ASSESSMENT APPEALS TO MI
TAX TRIBUNAL

NOVEMBER 1

PRINCIPAL RESIDENCE &
ELIGIBLE DEVELOPMENT
PROPERTY EXEMPTION
DEADLINE FOR WINTER
TAX LEVY

DECEMBER 12

BOARD OF REVIEW
CLERICAL ERRORS,
VETERANS EXEMPTIONS,
& ECONOMIC HARDSHIP
APPEALS | 11AM
ADMIN CONFERENCE ROOM

COMMUNITY DEVELOPMENT

COMMUNITY DEVELOPMENT
1827 N. SQUIRREL RD. | AUBURN HILLS 48326

PHONE 248-364-6900
FAX 248-364-6939

BUSINESS HOURS
MONDAY - FRIDAY | 8:00AM - 5:00PM

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EXHIBIT B

Managing Your Septic System

WQ-39
Revised September 2002

MICHIGAN STATE
UNIVERSITY
EXTENSION

Prepared by Eckhart Dersch, Extension specialist in water management,
Department of Resource Development, Michigan State University

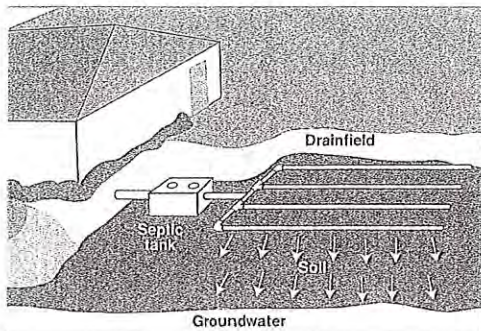
Households that are not served by public sewers usually depend on septic systems to treat and dispose of wastewater.

A septic system is correctly located, adequately designed, carefully installed and properly aged, you will have a waste disposal system that is simple, economical, effective, safe and long-lasting. A poorly designed, installed or maintained system may result in property damage, odor,

surface and possibly groundwater pollution, disease potential, and costly repairs or replacement.

MANAGEMENT IS THE KEY TO A LASTING WASTEWATER DISPOSAL SYSTEM.

This file contains information that will help you manage your septic system. It also provides a place to record and store vital information about your system. It should be kept with other documents about your home and property.



Septic System Components

A septic system has two basic parts: a septic tank designed to intercept, hold and partially treat solids contained in wastewater coming from the home, and a soil absorption field or drainfield to facilitate treatment and disposal of clarified wastewater after it leaves the septic tank, as illustrated at left.

Helpful Sources of Assistance and Additional Information

Questions and concerns about your septic system can be directed to the sanitarian in your county or regional health office, to a septic system contractor or to your local Michigan State University Extension office.

Additional information can be found in:

In-site Domestic Sewage Disposal Handbook, MWPS-1, Midwest Plan Services, request from Department of Agricultural Engineering, Michigan State University, \$6.

Septic Tank Systems: A Homeowner's Guide, Michigan Environmental Health Association, www.meha.net.

Now you own a septic system. Groundwater protection and your septic system, and several additional environmental waste disposal publications, National Small Flows

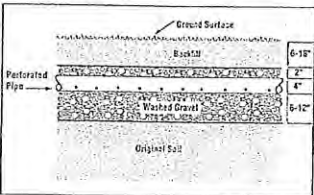
Clearinghouse, www.nsfic.wvu.edu.

Onsite Works! An Introduction to Decentralized Wastewater Treatment Systems, Housing Education and Research Center (HERC) at Michigan State University, www.cmr.msu.edu/cmherc/onsite/index.html.

Several bulletins on septic systems are available in Michigan State University Extension's WQ (water quality) bulletin series, including: *Home's Septic System* (WQ-51); *Managing Shorelines to Protect Water Quality* (WQ-52); *What to Do if Your Septic System Fails* (WQ-14); *Buying or Selling a Home? What to Find Out About Your Water and Septic Systems* (WQ-15); and *How to Conserve Water in Your Home and Yard* (WQ-16). Contact your local MSUE office or the MSU Bulletin Office, 10-B Agriculture Hall, MSU, East Lansing, MI 48824-1039, or www.msu.edu/waterquality/wq-mats.html.

How the Drainfield Functions

The drainfield receives partially treated effluent from the septic tank. It consists of a network of perforated pipes laid in gravel-filled trenches about 2 or 3 feet wide or in beds that are over 3 feet wide and 6 to 18 inches (or more) deep. The size and type of drainfield are determined by the estimated daily wastewater flow and local soil conditions. Wastewater trickles out of the perforated pipes, through the gravel layer and into the soil.



Physical and biological purification processes take place as the effluent percolates down toward groundwater. These processes work best where the soil is somewhat dry and permeable and contains plenty of oxygen for several feet below the drainfield. Some systems include a dosing chamber or distribution box in the pipe leading from the septic tank to the drainfield for regulating the release of wastewater into the drainfield. This promotes optimal treatment and dispersal of the water and prolongs the life of the drainfield. The lifespan of a well-maintained system can be 20 to 30 years or more.

Signs of system failure

- Odors, surfacing sewage, wet spots or lush vegetation on or near the drainfield.
- Plumbing or septic tank backups.
- Slow-draining fixtures.
- Gurgling sounds in the plumbing system.

If you notice any of these signs or if you suspect any other problems with your septic system, contact the sanitarian at your county or regional health office or your septic system contractor for assistance.

Alternative systems

In some situations, it may be possible or necessary to treat and dispose of effluent from the septic tank using something other than only a drainfield. Alternative systems in use today include sand filters, mounds, wetlands, gravelless drainfields, pressure dosing and aerobic units. Servicing requirements for these systems vary and should be obtained from your local sanitarian or septic system contractor.

Recommendations

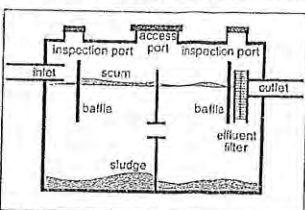
These suggestions will help you prolong the life of your septic system.

- Minimize the amount of water entering the septic system. Practice water conservation by installing water-saving fixtures in your home, using the least amount of water to get the job done, and repairing leaky faucets and toilets. When possible, keep water softener backwash out of the septic system.
- Avoid using a garbage disposal unit. Make compost out of vegetable wastes, coffee grounds, eggshells and other compostable kitchen wastes.
- Eliminate release of non-degradable materials such as fats, paper towels, hair, tampons, sanitary napkins and disposable diapers.
- Never release toxic chemicals such as solvents, disinfectants, oils, paints, paint thinner and pesticides. Use boiling water and a drain snake to open clogged drains instead of caustic drain openers. Use commercial bathroom cleaners in moderation. Use mild detergent or baking soda when possible.
- Pump septic tank regularly, usually once every three to five years, and never allow solids or scum to leave the septic tank and enter the drainfield.
- Keep surface of drainfield properly drained by slightly mounding the soil over the drainfield, redirecting downspouts and sump pump outflow, and not stockpiling snow over the area.
- Do not install automatic sprinklers over the tank and drainfield.
- Landscape over septic system with dense grass cover and other shallow-rooted plants.
- Avoid impermeable or compacted surfaces over the drainfield such as concrete, asphalt, plastic or compacted soil from vehicular traffic.
- Save fertilizer by not fertilizing over the drainfield.
- Stay away from additives. Their benefits have not been demonstrated, and some may actually harm your system and contaminate groundwater.
- If there are observation ports in your drainfield, look in them during wet (spring) and dry weather and determine depth of ponded water, if any. Records over time will help you forecast and solve any developing problems.

How the Septic Tank Functions

The typical septic tank is a large, buried, rectangular or cylindrical container made of concrete, fiberglass or polyethylene usually located 10 or more feet from the point where the sanitary drain leaves the house. Wastewater from your bathroom, kitchen and laundry flows into the septic tank. There, heavy solids settle to the bottom where bacterial action partially decomposes the solids into sludge and gases. The lighter solids, such as fats and greases, rise to the top and form a scum layer. The partially treated effluent then leaves the septic tank and flows to the drainfield.

Septic tanks have one or two compartments specifically designed to capture the solids and prevent them



Cross-section of a two-compartment septic tank

from entering the drainfield. Two-compartment tanks do a better job of capturing the solids and may be required in new installations. Tees and baffles are essential parts of the septic tank. Some tanks are equipped with an inlet tee or baffle to slow incoming waste and direct it downward. The outlet tee or baffle prevents floating solids or scum from leaving the tank and then clogging the drainfield. Some tanks are also equipped with an effluent filter to further prevent the movement of solids into the drainfield. All septic tanks should have accessible covers for checking the condition of the baffles and for pumping out the accumulated sludge and scum mat. If accumulated solids are not regularly removed from the septic tank, they will overflow into the drainfield and cause premature failure of the drainfield resulting in costly repairs or replacement.

Servicing the Septic Tank

Regular servicing of the septic tank is the single most important maintenance requirement of a septic system. Required frequency of service depends on septic tank size, the number of persons in the household and whether occupants are minimizing the release of unnecessary solids into the wastewater. Most septic tanks should be pumped every three to five years.

How do I determine when to pump?

Most homeowners prefer to give this responsibility to a reputable septic tank pumping firm. Its representative will periodically check your system to determine the rate of solids accumulation and design a pumping schedule tailored to your situation. As a general rule, the tank will require pumping when any of the following occurs: the top of the sludge deposit is within 12 inches of the bottom of the outlet baffle; the bottom of the floating scum mat is within 6 inches of the bottom of the outlet baffle; the top of the floating scum mat is within 1 inch of the top of the outlet baffle or the floating scum mat is more than 12 inches thick.

Should I use special products to enhance the operation of my septic tank?

No. Though many products are claimed to improve septic tank performance or reduce the need for routine pumping, they have not been found to make a significant difference. Some of these products can actually cause solids to be carried into the drainfield and lead to premature clogging. Other products containing organic solvents can contribute to groundwater contamination.

Where is my septic tank located?

The tank is usually located about 10 to 15 feet from the point where the sanitary drain leaves the house. It can be found by gently inserting a steel rod (soil probe) into the ground where the tank is most likely to be or by waiting for a light snowfall and observing where the snow first melts.

Safety Considerations

Certain features of the septic tank can cause serious injury or death, so the tank should be treated with extreme caution.

- Never enter the septic tank. It contains life-threatening gases and little oxygen.
- Explosion or electrical shock can occur when lights, appliances or tools are used in or near the septic tank. Smoking can also trigger an explosion.
- Infectious diseases can be acquired from contact with liquids and solids in the septic tank.
- Secure exposed manhole covers and inspection ports to prevent tampering or entry by children.
- If sewer gas odors are detected in the home, immediately call your plumber or a septic system maintenance firm. Evacuate the building if the odor is strong.
- Keep children and spectators away when septic system is being maintained or excavated.

Septic System Layout

If you do not have a sketch showing where your septic system is located on your property, locate them using a soil probe and use the grid provided to show the location of your septic system components in relation to your house.



Preventative Maintenance Record

Keeping a record of your septic system maintenance will help you anticipate when the next cleaning may be needed.

Date	Work done	Firm	Cost

Septic System Contractor/Installer

Name _____
Address _____
Date Installed _____
Phone _____

Septic System Pumper

Name _____
Address _____
Phone _____

EXHIBIT C

2022 Spring/Summer

ONLY RAIN IN THE DRAIN

Storm drains lead directly to our lakes and streams. Oil, pet waste, leaves, or dirty water from washing your car that enters a storm drain gets into our lakes and streams. With almost five million people living in Southeast Michigan, we all need to be aware of what goes into our storm drains. Remember, only rain in the drain!

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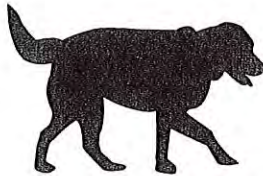
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Volunteer to label storm drains in your neighborhood to inform residents that storm drains flow directly to our lakes and streams. Encourage citizens to contact their local community for more information on storm drain stenciling programs.



Pick up after your pets! Pet waste contains bacteria that are harmful to us and our water. Leaving it on the sidewalk or lawn means the bacteria will be transported into the storm drains, and then into our lakes and streams.

2022 IMPORTANT DATES FROM THE ASSESSING OFFICE

MARCH 7

BOARD OF REVIEW
ASSESSMENT PROTESTS
9 AM - 12 PM & 1 - 4 PM
ADMIN CONFERENCE ROOM
CITY HALL

MARCH 8

BOARD OF REVIEW
ASSESSMENT PROTESTS
2 - 5 PM & 6 - 9 PM
ADMIN CONFERENCE ROOM
CITY HALL

MAY 31

DEADLINE TO FILE
COMMERCIAL, INDUSTRIAL,
& PERSONAL PROPERTY
APPEALS TO MTT

JUNE 1

PRE & ELIGIBLE
DEVELOPMENT PROPERTY
EXEMPTION DEADLINE
FOR SUMMER TAX LEVY

JULY 19

JULY BOARD OF REVIEW
11:00 AM
ADMIN CONFERENCE ROOM
CITY HALL

JULY 31

DEADLINE TO FILE
RESIDENTIAL PROPERTY
APPEALS TO MTT

NOVEMBER 1

PRE & ELIGIBLE
DEVELOPMENT PROPERTY
EXEMPTION DEADLINE
FOR WINTER TAX LEVY

DECEMBER 13

DECEMBER BOARD
OF REVIEW
11:00 AM
ADMIN CONFERENCE ROOM
CITY HALL

COMMUNITY DEVELOPMENT

COMMUNITY DEVELOPMENT
1827 N. SQUIRREL RD. | AUBURN HILLS 48326

PHONE 248-364-6900
FAX 248-364-6939

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

MAINTAIN A HEALTHY LAWN

MOW HIGH, RECYCLE CLIPPINGS

- Mow at least three inches high
- Return clippings to recycle nutrients
- Sweep or blow clippings from walks and driveways onto the lawn
- Taller grass will discourage weeds and promote deeper roots, helping the lawn survive droughts

BE SMART WITH FERTILIZER

- Be patient in the spring - wait until May to fertilize
- Don't fertilize if the ground is frozen or saturated with water
- Choose lawn fertilizers with low or no phosphorus (the middle number) and follow the directions
- Confirm spreader setting before applying
- Don't fertilize or discharge clippings near lakes, rivers, streams or storm drains
- Sweep fertilizer granules from walks and driveways onto the lawn
- Wash your spreader on the grass

WATER REMINDERS

- Watering should not produce puddles. Lighter, more frequent watering is best
- Brown lawns are OK; dormancy is a natural response to drought; however, some water may be necessary in a drought of more than a month

For more healthy lawn care tips please visit
MSU Turfgrass Science website at www.turf.msu.edu

DON'T DUMP

Enjoying the summer in your recreation vehicle? Protect the environment at the same time! Dispose of waste properly; take all waste to a facility - don't dump!

The facility below accepts RV waste:
Addison Oaks County Park
1480 W. Romeo Road, Leonard, MI
\$30 | Call for hours: 248-693-2432

SUMMER CAR MAINTENANCE

Washing cars in your driveway can add pollutants to our waterways. Wash water that enters storm drains often contains detergents, oil, grease, heavy metals, and dirt. Vehicle fluids dumped down a storm drain or directly into a waterway can cause serious problems. The amount it takes to fill your automobile's engine can form an eight acre oil slick in a river. Other vehicle fluids are poisonous to people, fish, and wildlife.

WASHING TIPS

- Wash your car at commercial carwashes that use water efficiently and dispose it properly
- Remove dirt around wheels first with a wire brush. Collect the soil with a broom and dispose of it in a manner that will keep it out of storm drains
- Use non-phosphate biodegradable detergents and mild soaps, such as vegetable oil-based soaps
- Wash one section of the car at a time and rinse it quickly using a pistol grip nozzle with high pressure and low volume

MAINTENANCE TIPS

- If you change vehicle fluids at home, take the waste fluids to a recycling center or an oil change facility
- Always use a drip pan under your work and use funnels when transferring fluids
- Never mix waste oil with gasoline, solvents or other liquid
- Change vehicle fluids in the garage whenever possible
- If a spill occurs, pour kitty litter, saw dust or cornmeal on spill to absorb the liquid. Place the waste material in a strong plastic bag and dispose of it with your trash

2022 Spring / Summer

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
1500 BROWN ROAD | AUBURN HILLS 48326

PHONE 248-391-3777
FAX 248-391-4895
EMAIL DPW@AUBURNHILLS.ORG

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

HOUSEHOLD HAZARDOUS WASTE DAY

SATURDAY, 5/14/2022 | 9 AM - 3 PM

ACCEPTED MATERIALS



COMPUTERS, TELEVISIONS, MICROWAVES, HOUSEHOLD BATTERIES, ANY ELECTRONIC DEVICES



HOUSEHOLD CHEMICALS, SOLVENTS, MOTH BALLS, EXPIRED MEDICATIONS, MERCURY DEBRIS, CLEANING PRODUCTS, SOLVENT-BASED GLUE, FLUORESCENT LIGHTBULBS



FUNGICIDES, HERBICIDES, INSECTICIDES, PESTICIDES, FERTILIZERS, RAT POISON



AUTOMOTIVE OILS, GASOLINE, KEROSENE, DIESEL FUELS, BRAKE FLUID, ANTI-FREEZE, ACID FILLED BATTERIES, ACID, SOLVENTS, WAXES, LUBRICANTS



SOLVENTS, OILS, GLUES, CAULKING, PAINT THINNER, TURPENTINE, VARNISHES, WOOD PRESERVATIVES, EPOXY, EMPTY PROPANE TANKS

NON-ACCEPTED MATERIALS



LATEX PAINT / WATER-BASED PAINT NOT ACCEPTED BECAUSE THESE ARE NOT CONSIDERED HAZARDOUS WASTE PRODUCTS. LATEX PAINT CAN BE SOLIDIFIED BY OPENING THE CONTAINER AND LETTING IT DRY, OR USING AN ABSORBENT SUCH AS SAND OR KITTY LITTER. ONCE SOLIDIFIED, THE CONTAINER CAN BE DISPOSED OF IN REGULAR HOUSEHOLD GARBAGE. PLEASE HELP US DEFRAY THE COST OF PAYING A HAZARDOUS WASTE COLLECTION VENDOR FOR DISPOSAL OF WATER-BASED PAINTS.



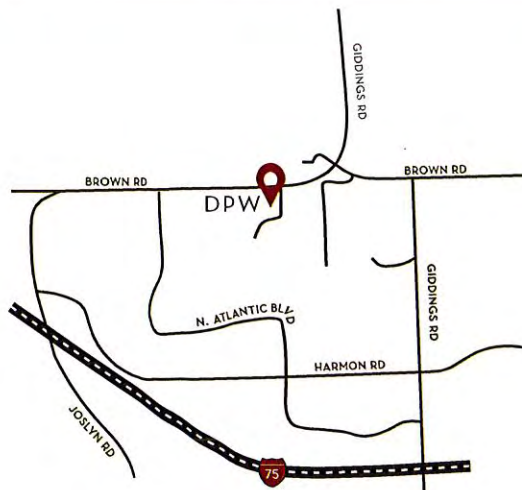
COMMERCIALLY GENERATED WASTE, RADIOACTIVE WASTE, EXPLOSIVES, AMMUNITION, SHOCK SENSITIVE MATERIALS, INDUSTRIAL COMPRESSED GAS CYLINDERS, MEDICAL WASTE (NEEDLES, SHARPS, SYRINGES).

AUBURN HILLS DPW GARAGE

1500 BROWN ROAD | AUBURN HILLS, MI 48326

LOCATED ON THE SOUTH SIDE OF BROWN ROAD BETWEEN
JOSLYN & GIDDINGS ROADS

NOTE: THIS EVENT IS FREE OF CHARGE AND IS OPEN TO
ALL AUBURN HILLS RESIDENTS. PLEASE BRING PROOF OF
RESIDENCY WITH YOUR AUBURN HILLS ADDRESS.



DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
1500 BROWN ROAD | AUBURN HILLS 48326

PHONE 248-391-3777
FAX 248-391-4895
EMAIL DPW@AUBURNHILLS.ORG

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

HOUSEHOLD HAZARDOUS WASTE DAY SATURDAY, MAY 13, 2023 | 9:00 AM - 2:00 PM

ACCEPTED MATERIALS



COMPUTERS, TELEVISIONS, MICROWAVES, HOUSEHOLD BATTERIES, ANY ELECTRONIC DEVICES



HOUSEHOLD CHEMICALS, SOLVENTS, MOTH BALLS, EXPIRED MEDICATIONS, MERCURY DEBRIS, CLEANING PRODUCTS, SOLVENT-BASED GLUE, FLUORESCENT LIGHTBULBS



FUNGICIDES, HERBICIDES, INSECTICIDES, PESTICIDES, FERTILIZERS, RAT POISON



AUTOMOTIVE OILS, GASOLINE, KEROSENE, DIESEL FUELS, BRAKE FLUID, ANTI-FREEZE, ACID FILLED BATTERIES, ACID, SOLVENTS, WAXES, LUBRICANTS



SOLVENTS, OILS, GLUES, CAULKING, PAINT THINNER, TURPENTINE, VARNISHES, WOOD PRESERVATIVES, EPOXY, EMPTY PROPANE TANKS

NON-ACCEPTED MATERIALS



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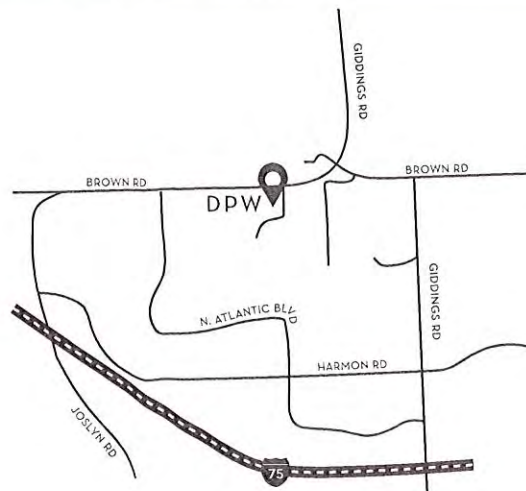
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AUBURN HILLS DPW GARAGE

1500 BROWN ROAD | AUBURN HILLS, MI 48326

LOCATED ON THE SOUTH SIDE OF BROWN ROAD BETWEEN
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RESIDENCY WITH YOUR AUBURN HILLS ADDRESS.





ERG
ENVIRONMENTAL
SERVICES

HHW Collection Summary

13040 MERRIMAN ROAD, SUITE 200

LIVONIA, MICHIGAN 48150-1816

734.437.9650 (P) • 734.437.9651 (F)

CITY OF AUBURN HILLS

Collection Date	May 13, 2023
# of Vehicles	?
Event Location	Auburn Hills DPW

Type of Material	# of Containers	Container Size & Type	Total Weight	Unit	Treatment Category*
Flammable Liquid	1	55 Gal Drum	469	lbs	ER
Oil Based Paint	4	Cubic Yard	2,410	lbs	ER
Latex Paint	0	Latex Toter	0	lbs	RC
Aerosol Cans	1	Cubic Yard	417	lbs	ER
Acidic Products	1	55 Gal Drum	163	lbs	WT
Caustic/Basic Products	1	55 Gal Drum	189	lbs	WT
Oxidizer	1	55 Gal Drum	47	lbs	ST
Toxic Products	7	Cubic Yard	2,638	lbs	ST
Pesticides	2	Cubic Yard	756	lbs	ST/DI
Oil/Antifreeze	3	Tote	2,456	lbs	RC
Propane/Fire Extinguishers	1	Crate	608	lbs	RC
Expired Medicines	1	55 Gal Drum	95	lbs	ST/DI
Medical Waste Sharps	1	55 Gal Drum	32	lbs	AUTOCLAVE
Asbestos	0	55 Gal Drum	0	lbs	RC/LF
Reactives	2	5 Gallon Pail	8	lbs	DI
Electronic Equipment	21	Pallet	10,590	lbs	RC
Household Batteries	3	55 Gal Drum	2,001	lbs	RC
Reactive Lithium Batteries	1	5 Gallon Pail	18	lbs	RC
Fluorescent Lamps	1	Pallet	698	lbs	RC
Mercury Devices	1	5 Gallon Pail	5	lbs	RC
PCB Ballasts	0	55 Gal Drum	0	lbs	LF
Total Weight for this Collection			23,600	lbs	

*Treatment Categories

RC = Recycling · ST = Stabilization · ER = Energy Recovery · DI = Destructive Incineration · LF = Landfill



ERG ENVIRONMENTAL SERVICES

Invoice

Date Jun 10, 2022	Page 1
Invoice Number LIIN020868	

Sold To:
City of Auburn Hills
1500 Brown Road
Auburn Hills, MI 48326

Ship To:
City of Auburn Hills
1500 Brown Road
Auburn Hills, MI 48326

Attn: Diane H

Order No. LIORD22584	Ship Date May 14, 2022	Customer No. 6217	Salesperson	PO Number	Terms N30
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Manifest #	Reference	Project# 1HW 051422-C
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Qty.Shp.	UOM	Description	Unit Price	Extended Price
11.00	HOURL	Personnel Cost-Per Person	330.0000	3,630.00
1.00	EA	Mobilization Fee, Per Collection	4,500.0000	4,500.00
438.00	EA	HHW Aerosols Disposal-Lbs.	0.9500	416.10
1,801.00	EA	HHW Automotive Fluids Recycling-Lbs.	0.6000	1,080.60
1,960.00	EA	HHW Batteries Recycling-Lbs.	0.6000	1,176.00
190.00	EA	HHW Corrosives Disposal-Lbs.	0.9500	180.50
10,393.00	EA	HHW Electronics Recycling-Lbs.	0.4000	4,157.20
543.00	EA	HHW Lamp Recycling-Lbs.	0.6000	325.80
53.00	EA	HHW Medical Waste/Sharps Disposal-Lbs.	0.9500	50.35
10.00	EA	HHW Mercury Recycling-Lbs.	30.0000	300.00
1,582.00	EA	HHW Oil Based Paint & Solvent Disposal-Lbs.	0.9500	1,502.90
49.00	EA	HHW PCB Ballast Disposal-Lbs.	0.9500	46.55
621.00	EA	HHW Pesticides Disposal-Lbs.	0.9500	589.95
261.00	EA	HHW Pharmaceutical Disposal-Lbs.	0.9500	247.95
820.00	EA	HHW Propane/Fire Ex Recycling-Lbs.	0.6000	492.00
77.00	EA	HHW Reactive/Oxidizer Disposal-Lbs.	3.7500	288.75
127.00	EA	HHW Asbestos Disposal-Lbs.	0.9500	120.65
3,421.00	EA	HHW Toxic Disposal-Lbs.	0.9500	3,249.95

Due Date
Jul 10, 2022

Tax summary:

MI 0.00

Subtotal
Total tax & EIR

22,355.25
0.00

Total amount
Less payment
Less pmt. disc

22,355.25
0.00
0.00

Amount due

22,355.25

Remit To: PO Box 187, Bowling Green, OH 43402
Please include Invoice # and Customer # with Remittance to Ensure Proper

EXHIBIT D



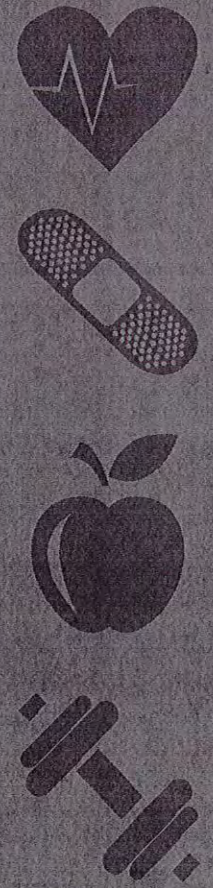
FALL FESTIVAL

IN THE WOODS

SATURDAY, OCTOBER 8
11:00 AM - 3:00 PM

HAWK WOODS PARK AND CAMPGROUND
3799 BALD MOUNTAIN ROAD

\$2.00 PER PERSON | KIDS 2 & UNDER FREE

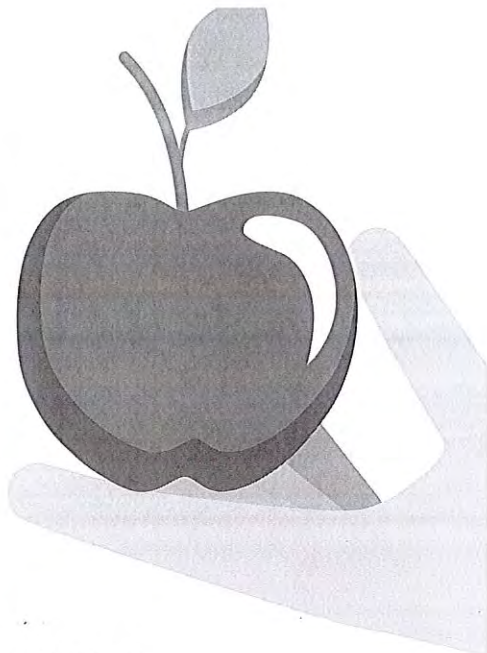


2022 COMMUNITY HEALTH & WELLNESS EXPO

WEDNESDAY, OCTOBER 12 • 10:00 AM - 1:00 PM
AUBURN HILLS COMMUNITY CENTER



2023 COMMUNITY **HEALTH** & WELLNESS EXPO

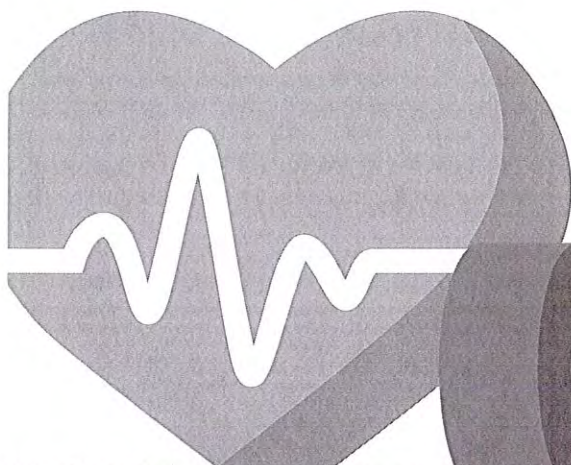


WEDNESDAY, OCTOBER 4

11:00 AM - 2:00 PM

AUBURN HILLS COMMUNITY CENTER

Visit alanasfoundation.org for details



AH
AUBURN HILLS

FALL FESTIVAL

IN THE WOODS

SATURDAY, OCTOBER 7 | 11:00 AM - 2:00 PM

HAWK WOODS PARK AND CAMPGROUND

\$2.00 ADMISSION | KIDS 2 & UNDER FREE

PRE-REGISTER #449003 BY 9/27

AH
AUBURN HILLS



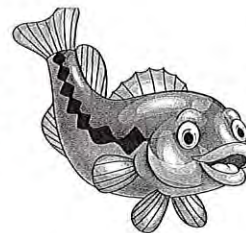
Clinton River
**MAIN
BRANCH**
OURS TO PROTECT

City Of Auburn Hills

TROUT UNLIMITED
CLINTON VALLEY
CHAPTER
Keep It Clean Program
~ Clinton River ~



How Water Quality Works



Learn how water quality is affected by watersheds

Water quality plays an important role in a healthy watershed and you can contribute to the solution, not the pollution! Clean water provides communities with drinking water, makes recreation like boating and fishing safe for the residents of Michigan and supports a healthy ecosystem for plants and wildlife.

Knowing how watersheds work is important because it allows us to understand that our actions have an impact on water quality. When rain and snow/ice melt travel across the land (watershed) and into storm drains, it is called stormwater or runoff. As this runoff travels, it picks up trash, animal waste, chemicals, sediments and dissolved substances along the way until it discharges into the nearest waterbody which has a negative affect on water quality.

Common types of pollution in stormwater runoff include sediment, nutrients, chemicals, bacteria and illicit discharges. In addition to stormwater runoff, water velocity can decrease water quality.

Sediment can be eroded soil from unprotected construction sites, eroding streambanks and shorelines and runoff from agricultural lands.

- Adding vegetative buffers along agricultural land or at the water's edge of your waterfront property can help slow runoff.



Nutrients include natural sources (organic debris), fertilizers, animal waste (pets, wildlife, and livestock) and sewage sources coming from failing septic systems or illegal discharges of sewage.

- Don't feed the ducks and geese because the concentration of droppings adds excess nutrients to the river.
- Fertilize your yard with slow-release fertilizer and sweep excess particles off paved surfaces back onto the lawn.



Chemicals can come from pesticides used on residential and agricultural lands, leaking vehicle fluids, road salt and the improper disposal of household chemicals.

- Change to a chemical alternative for cleaning, like peroxide or baking soda and vinegar, and dispose of

cleaning supplies, paints, oven cleaners, aerosol cans, etc. at a household hazardous waste collection event in your community.

- Use Michigan native plants in your yard which are naturally resistant to pests and diseases, eliminating the need for harmful pesticides.



Bacteria is another source of pollution in stormwater which comes from animal waste or human sewage sources.

- Always pick up after your pet, even in the winter, to prevent the bacteria from washing into drainage ditches and storm drains which go straight to the river and have a negative impact on water quality.
- If you have a septic tank on your property, have it inspected every 3 years and pumped out every 3-5 years.

Illicit discharges are any discharge to a storm drain or waterbody that contains polluting material, such as sediment, nutrients, oil, and bacteria.

- If you see someone dumping anything in the river or lake, on the side of the road or even down the storm drain on your street, report it to your community's pollution hotline.

Report Illegal Dumping

Michigan's Pollution Alert System	800-292-4706
Macomb County	877-679-4337 or IDEP@macombcountymi.gov
Oakland County	248-858-0931
St. Clair County	277-504-SWIM
Washtenaw County	734-222-3800 or https://washtenaw.org/196/Report-an-Issue
Wayne County	888-223-2363

Water velocity is too much water, too quickly, which scours the streambed and banks adding to the sediment and recirculating the bacteria and chemicals in the river reducing water quality.

- Plant trees to provide a natural filter to reduce stormwater runoff, flooding and erosion.
- Disconnect downspouts around your home or business to slow runoff and reduce the amount of sediment entering the river.



For more information on how to protect water quality, visit:

www.allianceofrougecommunities.com



EXHIBIT E

when it comes to household
CHEMICALS

**CHANGE IS
A GOOD
THING!**

change your habits to
help protect water quality
in the Rouge River

Change to a chemical alternative
Change the way you use chemicals
Change how you dispose of chemicals



Working together, restoring the river

www.allianceofrougecommunities.com

EXHIBIT F

7 Simple Steps to Clean Water Program Calendar

Our Water. Our Future.



Ours to Protect

January	February	March Pet Care
April Fertilizer	May Household Hazards Aerators	June Forth-friendly Landscaping
July Car Care	August Save Water	September Storm Drains
October Fertilizer	November Storm Drains	December

Each month, Southeast Michigan's public education campaign on water quality, "Our Water. Our Future. Ours to Protect," highlights one of seven simple steps. Following this calendar will help deliver a coordinated message and leverage the impact of regional messages. Delivery of these messages may take the form of television and radio PSAs, displays, newsletter articles, newspaper advertisements, and the distribution of printed materials.

Find out more at www.semcog.org

EXHIBIT G

CLINTON RIVER CLEAN UP

SATURDAY, SEPTEMBER 16 | 9:00 AM - 12:00 PM

RIVER WOODS PARK

DETAILS

Volunteers will meet at River Woods Park and are advised to wear work clothes and sturdy shoes.

For more information, please contact Shawn Keenan, City Planner, at 248-364-6926 or skeenana@auburnhills.org.

Advance notification of participation is preferred, but not required.

WHY CLEAN UP?

To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



AGES 21+



FRIDAY, SEPTEMBER 22 | 6-10 PM

RIVERSIDE PARK

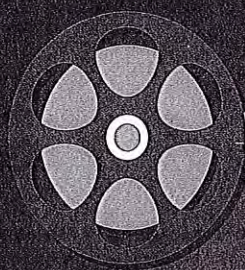


The Auburn Hills Downtown Development Authority is sponsoring the event with all proceeds going to Neighborhood House, an organization that provides outreach and numerous benefits to Auburn Hills residents in need. Tickets include event entry, eight tastings, dinner, dessert, and live music. Tickets are \$40 from now until September 15. Tickets will be \$50 on the day of the event.

2023 AUBURN HILLS RIVER DAY

FISHING DERBY

SATURDAY, JUNE 10 | CHECK-IN BEGINS AT 7:30 AM
RIVERSIDE PARK | DOWNTOWN AUBURN HILLS



REELS

BY THE
RIVERSIDE

Presented by AHDDA

JUN 10 | JUL 15 | AUG 12 | SEP 9*

*Grandparents night! All ages welcome.

MOVIES START AT DUSK | KNIGHT AMPHITHEATER

**DOWNTOWN
AUBURN HILLS**

2022 Spring / Summer

GLOWFORGE SAFETY TRAINING CLASS

Glowforge is the iconic 3D Laser Printer that will take your crafts to the next level with cutting and engraving. Attend this training class to become certified to use our glowforge on your own for your future projects. Please bring your own Wi-Fi enabled device for set-up. Limited to 5 per class.

Prerequisite: Woodshop Safety Certification
Location: Community Center Makers Studio
Date: 4/12/22 #114001D
5/10/22 #114001E
6/14/22 #114001F
Time: 6:00 – 9:00 PM
Fee: \$5 Resident / \$10 Regular

CREATE YOUR OWN ICE CREAM SCOOP

Instructor Robin Bruening will walk you through all the steps to turn your own ice cream scoop using the lathe. By the end of the class you'll have a nice handmade ice cream scoop that's ready to use or share as a gift.

Prerequisite: Woodshop Safety Certification
Location: Community Center Makers Studio
Date: 4/23/22 #114002C
4/30/22 #114002D
Time: 10:00 AM – 12:00 PM
Fee: \$20 Resident / \$24 Regular

MAKE YOUR OWN CUTTING BOARD

Learn to make a cutting board to use at home or give to a loved one! The instructor will walk you through each step and all supplies are provided. Limited to 3 per class. This class requires two sessions to complete.

Prerequisite: Woodshop Safety Certification
Location: Community Center – Makers Studio
Time: 6:00 – 9:00 PM
Fee: \$20 Resident / \$30 Regular
Date: 04/13/22 & 4/14/22 #114003D

MAKE YOUR OWN STOOL

Learn with instructors Tom and Scott how to make your own stool to use at home or give to a loved one! The instructor will walk you through each step and all supplies are provided. Limited to 3 per class. This class requires two sessions to complete.

Prerequisite: Woodshop Safety Certification
Location: Community Center – Makers Studio
Time: 6:00 – 9:00 PM
Fee: \$20 Resident / \$30 Regular
Date: 6/7/22 & 6/21/22 #114004A





A RIVER DAY CELEBRATION

Fall
2023

The fish were active and biting during the 20th Annual Auburn Hills River Day Fishing Derby, held on Saturday, June 10th, at Riverside Park. The 104 kids who participated in this year's had the opportunity to catch one or more of the 775 rainbow trout released into the Clinton River for this annual event.

Not long after the 8:00 am start time, participants began catching fish, some as large as 15 inches in length. This year's derby had a few new participants who could also reel in a few nice-sized trout during this year's river celebrations.

One of the main reasons so many kids caught so many trout that day was largely due to the generous donations made by Clinton Valley Trout Unlimited and the Detroit Area Steelheaders. Their generous donations enabled the City to double the amount of trout released for the day's event.

The derby ended with every kid walking away with a raffle prize that included tackle, new fishing poles (thanks to the donation from Buffalo Wild Wings Rochester Hills), tackle boxes, fishing nets, hats, tumblers, and Uncle Buck cheese puffs (thanks to the contribution from General Towing). Bass Pro Shops Outdoor World again donated over 60 slightly used rod and reel combos for this year's raffle.

If you missed the derby, there is still plenty of fish and time to test your fishing skills in Downtown Auburn Hills at Riverside Park and River Woods Park.

For those interested in becoming more involved in projects that improve fishing opportunities in and along the Clinton River or one of its many tributaries, please visit:

Clinton River Watershed Council
www.crwcc.org

Clinton Valley Trout Unlimited
www.clintonvalleytu.com

Detroit Area Steelheaders
www.detroitsteelheaders.com

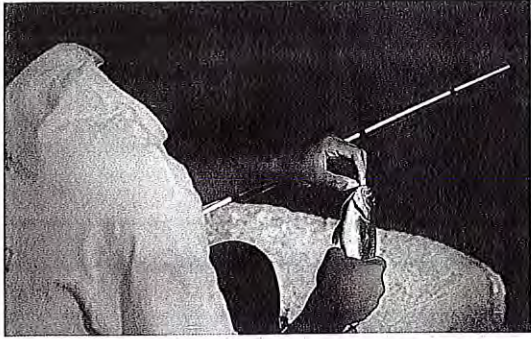
For information on what action you can take to protect our water resources and our resident trout population, please visit www.auburnhills.org/stormwater.php or www.crwcc.org



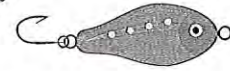
A SPECIAL THANK YOU TO ALL OUR FISHING DERBY SPONSORS AND SUPPORTERS:

CLINTON VALLEY TROUT UNLIMITED • BASS PRO SHOPS
CLINTON RIVER WATERSHED COUNCIL • GENERAL TOWING
DETROIT AREA STEELHEADERS • BUFFALO WILD WINGS FOUNDATION

Fall 2022



AUBURN HILLS RIVER DAY



FISHING DERBY



A RIVER DAY CELEBRATION

The fish were really active and biting during the 19th Annual Auburn Hills River Day Fishing Derby, which was held on Saturday, June 11th at Riverside Park. The 90-plus kids who participated this year had the opportunity to catch one or more of the 775 rainbow trout that were released into the Clinton River for this annual event.

It wasn't long after the 8:00 am start time that participants began catching fish, some as large as 15-inches in length. This year's derby had a few new participants that were also able to reel in a few nice size trout during this year's river celebrations.

One of the main reasons so many kids caught a trout that day was in large part due to the generous donations made by Clinton Valley Trout Unlimited, the Detroit Area Steelheaders, and General Towing. Their generous donations enabled the City to double the amount of trout released for the day's event.

The derby ended with many happy kids since everyone walked away with a raffle prize, that included tackle boxes, fishing nets, hats, snacks, and over 60 slightly used rod and reel combos donated by Bass Pro Shops Outdoor World.

If you missed the derby, there are still plenty of fish and time to test your fishing skills in Downtown Auburn Hills at Riverside Park and River Woods Park.

For those interested in becoming more involved in increasing and/or promoting the fishing opportunities in the area, please visit:

Clinton River Watershed Council
www.crwcc.org

Clinton Valley Trout Unlimited
www.clintonvalleytu.com

Detroit Area Steelheaders
www.detroitsteelheaders.com

For information on what action you can take to protect our water resources and our resident trout population, please visit www.auburnhills.org/stormwater.php or www.crwcc.org

To report pollution, call the City of
Auburn Hills Community Development
Department at 248-364-6900.

A SPECIAL THANK YOU TO ALL OUR FISHING DERBY SPONSORS AND SUPPORTERS:

CLINTON VALLEY TROUT UNLIMITED • BASS PRO SHOPS
CLINTON RIVER WATERSHED COUNCIL • GENERAL TOWING
DETROIT AREA STEELHEADERS

EXHIBIT H

Fall 2023

CLINTON RIVER CLEAN UP

SATURDAY, SEPTEMBER 16 | 9:00 AM - 12:00 PM

RIVER WOODS PARK

DETAILS

Volunteers will meet at River Woods Park and are advised to wear work clothes and sturdy shoes.

For more information, please contact Shawn Keenan, City Planner, at 248-364-6926 or skeenana@auburnhills.org.

Advance notification of participation is preferred, but not required.

WHY CLEAN UP?

To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



AGES 21+



FRIDAY, SEPTEMBER 22 | 6-10 PM

RIVERSIDE PARK



The Auburn Hills Downtown Development Authority is sponsoring the event with all proceeds going to Neighborhood House, an organization that provides outreach and numerous benefits to Auburn Hills residents in need. Tickets include event entry, eight tastings, dinner, dessert, and live music. Tickets are \$40 from now until September 15. Tickets will be \$50 on the day of the event.

Fall 2022

CLINTON RIVER CLEAN UP

SATURDAY, SEPTEMBER 17 | 9:00 AM - 12:00 PM
RIVER WOODS PARK



DETAILS

Volunteers will meet at River Woods Park and are advised to wear work clothes and sturdy shoes.

For more information, please contact Shawn Keenan, City Planner: 248-364-6926 or skeenana@auburnhills.org.

Advance notification of participation is preferred, but not required.

WHY CLEAN UP?

To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



HALLOWEEN MOVIE NIGHT

FRIDAY, OCTOBER 7 | DUSK
KNIGHT AMPHITHEATER | RIVERSIDE PARK





Clinton River

MAIN
BRANCH

OURS TO PROTECT

City Of Auburn Hills



TROUT UNLIMITED

CLINTON VALLEY

CHAPTER

Keep It Clean Program

~ Clinton River ~

2022 Spring / Summer

CLINTON RIVER

PADDLEPALOOZA

AUBURN HILLS TO ROCHESTER HILLS

2022

SATURDAY, JUNE 4TH | 7 AM



RIVERSIDE PARK | **PRE-REGISTRATION IS REQUIRED**
QUESTIONS? CALL 248.370.9353
OR VISIT AUBURNHILLS.ORG

children's

DOWNTOWN MUSIC SERIES

WEDNESDAYS IN JULY | 10 - 11 AM
KNIGHT AMPHITHEATER

JULY 6 ZIPPITY 2 DADS

JULY 13 DETROIT SCHOOL OF ROCK

JULY 20 BEVERLY THE MUSIC LADY

JULY 27 KEVIN DEVINE



EXHIBIT J

ARC EXECUTIVE DIRECTOR'S 2022 ANNUAL REPORT

The 2022 Alliance of Rouge Communities (ARC) Executive Director's Annual Report summarizes the activities conducted by the ARC from January 1, 2022, to December 31, 2022, including products and outcomes from routine administration and meetings of the ARC and all its committees. It also includes results from ARC Illicit Discharge Elimination Program (IDEP) activities and public education activities, including workshops and developed products.

EXECUTIVE DIRECTOR SERVICES

ARC MEETINGS AND ADMINISTRATION

FULL ALLIANCE MEETINGS

ARC Staff supported three (3) Full ARC meetings including preparation of the agenda (under the direction of the Chair), distribution of the materials prior to meetings, facilitation of the meetings (including notetaking and tallying of votes at the meeting), preparation of E-votes, and preparation/distribution of meeting summaries to members and other interested parties.

[Full ARC meeting summaries](#) can be found on the ARC's website.

EXECUTIVE COMMITTEE MEETINGS

The Executive Committee discusses and approves items in advance of full ARC meetings including development and amendments to budgets and contracts. ARC Staff supported three (3) Executive Committee meetings including (under the direction of the ARC Officers) preparation of the agenda, distribution of the materials prior to the meetings, preparation of E-votes, facilitation of the meetings (including note-taking and documenting recommendations considered and actions taken), and meeting summary preparation and distribution. This subtask also included ongoing support services for the committee outside of the regular meetings.

[ARC Executive Committee meeting summaries](#) can be found on the ARC's website.

FINANCE COMMITTEE MEETINGS

The Finance Committee, supported by ARC Staff, developed and administered the annual budget and work plan. ARC Staff prepared monthly financial reports, budget amendments, mailed dues invoices to members, collected dues, submitted grant reimbursement requests and paid the ARC's bills. ARC Staff facilitated two (2) Finance Committee meetings on March 18, 2022, and October 25, 2022, and prepared the agenda, distributed materials regarding budget amendments and the annual budget recommendations for review prior to the November Executive Committee meeting.

ADMINISTRATIVE SERVICES

ARC Staff provided administrative oversight of the ARC day-to-day activities by staff, consultants, contractors, and external relationships with other agencies, organizations, and individuals to meet the goals of the ARC.

2022 Activities included:

- The 2021 ARC annual report was completed and submitted to the ARC in March 2022.

- ◆ The ARC was awarded federal grants in 2022 and because the total amount of the award was more than \$200,000, the EPA was required under EPA Order 5700.8 to review the ARC's systems for controlling and managing federal funds. This review was an assessment of the ARC's administrative and financial systems' ability to manage our awards in accordance with Federal Regulations, Uniform Grants Guidance, EPA guidelines and OMB Circulars. In September 2022, to ensure adherence to 2 CFR 200 guidelines, the ARC was officially pre award certified (PAC) as of 9/13/22 with an expiration date of 9/12/26. ARC Staff updated or created the below listed policies and procedures to receive the PAC:
 - Accounting procedures
 - Conflict of interest policy
 - Personnel policy
 - Timekeeping policy
 - Procurement policy
 - Property management policy
 - Record retention policy
 - Travel policy

FINANCIAL SERVICES

ARC Staff provided accounting services in accordance with the ARC's Accounting Procedures Manual including processing of payables and receivables.

2022 Activities included:

- ◆ ARC Staff attended the following EPA webinars: April 28, 2022 – EPA Grants Competition Process, May 5, 2022 – EPA Grants Developing a Budget, May 10, 2022 – EPA Grants Financial Management, and September 22 – EPA Grants Complying with EPA Assistance Agreements.
- ◆ ARC Staff provided monthly reports for the ARC Treasurer and ARC members from January 1, 2022 through December 31, 2022.
- ◆ ARC Staff provided necessary staff to meet the separation of financial duties and responsibilities documented in the ARC's Accounting Procedures Manual so that no Executive Director Staff member has sole control over cash receipts, bank reconciliations, accounts payable, mail or other accounting functions.
- ◆ ARC Staff maintained separate general ledger accounts as required by funding source regulations.
- ◆ ARC Staff maintained financial records and files as required by the ARC Accounting Procedures Manual including grants and vendor contracts.
- ◆ ARC Staff submitted all required information for grant reimbursement requests and grant reporting.
- ◆ ARC Staff assisted and provided information for the 2021 Single Audit, financial statement and taxes.
- ◆ ARC Staff worked with both the Finance and Executive Committee to develop the 2023 ARC Budgeting Package which included a 2% increase in dues along with an adjustment from the finalized 2020 Census.
- ◆ ARC Staff prepared monthly financial reports, mailed dues invoices to members, collected dues, submitted various grant reimbursement requests and paid the ARC's bills.

OUTREACH AND ADVOCATE

ARC Staff promoted the ARC as the advocate for the Rouge River Watershed, served as the primary spokesperson for the ARC, responded to requests for information and sought opportunities to promote ARC awareness. ARC Staff served as the ARC primary liaison to the general public, all members, including both formal and informal interaction with government officials, legislators and staff on a regular basis.

GOVERNMENTAL ACTIVITIES

2022 Activities included:

- ARC Staff provided project information for EPA's website on various ARC restoration projects.
- ARC Staff received a call regarding setting up a tour and press event for the Michigan Attorney General for August 15, 2022. The event did not happen, but ARC Staff actively prepared for it working with ARC members until it was cancelled by the Attorney General's Office.
- ARC Staff forwarded a request from EGLE to ARC member communities to complete a survey through the Clean Watersheds Needs Survey (CWNS), hosted by the U.S. Environmental Protection Agency, which helps determine resources needed to improve wastewater, storm water, decentralized, and nonpoint source systems.
- ARC Staff organized a presentation by EGLE on the Clean Water Plan Wastewater Fund.
- ARC Staff attended the AOC Conference on May 24-26, 2022.
- ARC staff organized and provided EPA and EGLE staff a tour of EPA funded ARC projects July 27-28, 2022.
- ARC staff attended the Michigan Natural Resources Commission meeting August 11, 2022



EPA/EGLE tour of restoration projects

STATEWIDE PUBLIC ADVISORY COUNCIL (SPAC)

- ARC Staff attended SPAC meetings on January 20, 2022, June 14, 2022, and October 11-12, 2022.
- ARC Staff attended SPAC Habitat Subcommittee meetings on March 9, 2022, May 23, 2022, and October 3, 2022.
- ARC Staff promoted and attended the April 26, 2022, all PAC meeting Michigan's Areas of Concern Program: Past, Present, and Future.
- ARC Staff supported RRAC at their 2022 meetings including January 11, 2022, May 9, 2022, July 21, 2022, and October 18, 2022.

ORGANIZATION PARTICIPATION

2022 Activities included:

- ARC Staff participated in the One Water Public Education Campaign that is being led by SEMCOG. The campaign provides a regional public education strategy, led by local stakeholders, that provides common water resource messaging in southeast Michigan focused on stormwater, wastewater and drinking water. The messaging encourages water resource stewardship, encourages adoption of best management practices, and supports long-term investment in infrastructure.
- ARC Staff participated in the GLWA Watershed Hub work group and full group meetings to advance water quality monitoring in the region. The ED gave several presentations on the proposed investigational sampling framework and anticipated costs.
- ARC Staff continued to participate in the Southeast Michigan Partners for Clean Water work group.
- The ARC received the following awards for their restoration projects: American Public Works Association (APWA) MI Chapter 2022 Environmental Project of the Year award for Tamarack



APWA Tamarack Creek project award

Creek Restoration; Detroit Metro Chapter of AWP 2022 Environmental Project of the Year for Tamarack Creek Restoration; Michigan Recreation & Park Association 2021-2022 Landscape Design Award for the Johnson Creek Fish Hatchery Project.

- ◆ The ARC received a Certificate of Excellence for the exemplary performance and valuable contributions that the ARC has made to the preservation, restoration and stewardship of Michigan's natural environments and wildlife from the Michigan Natural Resources Commission.
- ◆ The ARC received the Michigan Award in 2022 from Keep Michigan Beautiful, Inc. for the ARC's Tamarack Creek Restoration project.
- ◆ ARC Staff collaborated with consultants from the Alliance of Downriver Watersheds to share best practices for permit compliance and to discuss opportunities for collaboration of some activities to reduce costs to both organizations.
- ◆ ARC Staff promoted the Friends of the Rouge Winter Stonefly Search (1/22/22), Spring Bug Hunt (4/23/22) and Fall Bug Hunt (10/15/22) on the ARC website and Facebook.
- ◆ ARC Staff promoted and attended the State of the Strait Conference May 11, 2022, to ARC member communities.

MEMBER AND GENERAL PUBLIC REQUESTS

2022 Activities included:

- ◆ ARC Staff participated in WXYZ coverage of the ARC's GLRI funded Lower Rouge River Habitat Restoration project which included an interview with John O'Meara, ARC Restoration Manager on May 9, 2022.
- ◆ ARC Staff provided project information for a June 29, 2022, article on the Tamarack Creek Restoration Project published in C&G *Newspapers*.
- ◆ ARC Staff provided project information for the July 14, 2022, Detroit Free Press article "A small, troubled, Henry Ford-created lake in Wayne County is getting a makeover."
- ◆ ARC Staff responded to an email from a Plymouth Twp. resident regarding potential projects for their Master Plan process. ARC staff responded and copied the member community's representatives.
- ◆ The ARC did not receive any FOIA requests from January 1, 2022, through December 31, 2022.
- ◆ ARC Staff forwarded various emails from residents to community representatives for follow-up.
- ◆ ARC Staff promoted Friends of the Rouge volunteer and monitoring activities and Rouge Rescue events on the ARC website and Facebook.
- ◆ ARC Staff promoted Oakland County's Regional Stormwater Summit that was held on October 21, 2022, at Lawrence Tech.
- ◆ ARC Staff promoted Oakland County's 18th annual Kids' Clean Water Calendar Contest.
- ◆ ARC Staff promoted the Rouge River Water Festival held at the Cranbrook Institute of Science.



ARC Staff interviewed as part of WXYZ coverage of the ARC's GLRI Lower Rouge habitat restoration project

PURSUIING GRANT OPPORTUNITIES

The Executive Director staff applied for the following grants in 2022 on behalf of the ARC:

- ◆ EPA Environmental Justice - Rouge River AOC Environmental Justice was submitted by ARC Staff. At the request of EPA in January 2023, the request was broken up into 5 applications with the first 2 resubmitted in January 2023. Those 2 submissions were Rouge River AOC Environmental Justice – Inkster Park 1 (\$5,685,000) and Inkster Park 2 (\$5,250,000) (award pending).

- ◆ EGLE AOC GLRI Grant - ARC Rouge River Area of Concern PAC Support (awarded 2/27/23 to the ARC \$154,500)
- ◆ USDA Forest Service GLRI Forest Restoration grant – Reducing Runoff in the Rouge River AOC (\$299,250 award pending)
- ◆ ARC Staff developed grant and support information for a USEPA Direct Funding for Rouge River AOC Habitat Restoration LTU wetland habitat implementation. (awarded to the ARC \$810,000).
- ◆ ARC Staff developed grant and support information for a USEPA Direct Funding for Rouge River AOC habitat restoration Wilcox/Phoenix implementation. (awarded to the ARC \$5,008,595).

Additional grant activities include:

- ◆ ARC Staff provided support information for a NOAA Partnership application that was submitted by the Friends of the Detroit River.
- ◆ ARC Staff encouraged the members to submit project ideas that can potentially be used as stream mitigation sites by developers. Through this program, Schoolcraft College can restore a portion of the Bell Branch in Livonia in cooperation with a developer.
- ◆ ARC Staff prepared various letters of support for partners applying for grants.
- ◆ ARC Staff updated information to maintain the ARC's status in the Federal government's System for Award Management (SAM), Grants.gov and with the DUNS number. These are required to be current and renewed annually to apply for federal grants.
- ◆ ARC Staff researched and surveyed ARC Members seeking their input in determining the scope of the ARC's application for various grant applications throughout 2022.
- ◆ ARC Staff prepared a letter to GLWA in support of the Southeast Michigan Regional Monitoring Program. ARC staff worked with regional partners (GLWA, Counties, DWSD and SEMCOG) to develop a regional monitoring plan and budget to identify storm drains being impacted by unknown sources of sewage. The plan has received widespread support from the counties (Macomb, Oakland, Wayne) and the sanitary sewer districts in the Clinton and Rouge River watersheds.

ARC Staff reviewed the following grants and either assisted an ARC Member in preparing it, forwarded them to individual communities to consider applying for or recommended that the ARC not apply:

- ◆ ARC Staff reviewed the MDNR Michigan Spark Grant and forwarded the funding opportunity to ARC member communities.
- ◆ ARC Staff attended the informational webinar on January 25, 2022, for the Sustain our Great Lakes grant opportunity. The ARC did not submit an application.
- ◆ ARC Staff attended the informational webinar on August 4, 2022, for the National Fish and Wildlife Foundation Southeast Michigan Resilience Fund 2022-2023 grant opportunity. The ARC did not submit an application.

TECHNICAL COMMITTEE

MEETING FACILITATION

Staff support was provided for two (2) Technical Committee meetings on February 18, 2022, and October 3, 2022. Topics in February included IDEP findings, investigation priorities from communities, progress report information, and an update on Post Construction Standards acceptance. In addition, the work plans for IDEP investigations conducted by [ECT](#) and [Wayne County](#) were approved by the Technical Committee. Topics in October included information about what to expect from an EGLE audit,

collaborative plan updates, work plan recommendations for 2023, and the tool that SEMCOG is developing for tracking Post Construction reporting metrics.

IDEP FIELD INVESTIGATIONS

Consistent with the Rouge River Collaborative IDEP Plan, illicit discharge investigations were conducted in Oakland and Wayne counties.

IDEP FIELD INVESTIGATIONS

ARC Staff conducted investigations for Oakland County in the city of Beverly Hills and assisted Wayne County with investigations in Livonia and Inkster. The written findings of each investigation were provided to each community and summarized in the [2022 IDEP Investigation Summary](#).

Wayne County Department of Public Services, Environmental Services Division (ESD) conducted advanced investigations in the cities of Plymouth and Livonia and are detailed in the [2022 Wayne County IDEP Services Report](#).

TMDL DATA COLLECTION

ARC staff conducted sampling in accordance with the ARC's Collaborative Total Maximum Daily Load (TMDL) Implementation Plan requirements. This included completing DO monitoring in Johnson Creek for two months, screening 83 outfalls for E. coli, and sampling 28 instream sites for suspended sediment. More information about this can be found in the 2022 Rouge River Water Quality Assessment Report.

IDEP TRAINING

ARC Staff promoted and assisted SEMCOG with four training courses. The IDEP Alert Observer training held on October 18, 2022, was attended by 45 people in person and 120 people via Zoom. The IDEP Investigator training held on October 18, 2022, was attended by 25 people. The IDEP Alert Observer training held November 10, 2022 was attended by 20 people in person and 30 people via Zoom. The IDEP Investigator training held on November 10 was attended by 25 people. ARC Staff also updated the Investigator training slide presentation and presented at the SEMCOG training.

MS4 PERMIT

2022 Activities include:

- ◆ ARC Staff shared Oakland County's Phase II MS4 Biennial Stormwater Progress Report "Summary for Community Use" with ARC members.
- ◆ In March 2022, ARC Staff prepared for the member communities the 2020-2021 Collaborative IDEP Progress Report and the 2020-2021 Collaborative PPP/PEP Progress Report for use in their permit reporting.
- ◆ ARC Staff provided guidance for completing and submitting Progress Reports and ARC Staff developed a template for the EGLE MS4 Progress Report for member communities to use.
- ◆ ARC Staff contacted EGLE regarding extending the Collaborative PPP and PEP plans through the end of the current permit cycle. The extension was approved and instead of ending 9/30/22 they are extended until 10/1/23.
- ◆ ARC Staff informed member communities on the Notice of Class Action Lawsuit-Monsanto Company. Several large west coast communities filed a class action lawsuit against Monsanto Company for manufacturing PCBs which resulted in impairments to the environment. The class

action group includes all Phase I and II MS4 entities (CVT, counties, etc.) that have PCB-impaired waters. The Rouge has PCB impairments; therefore ARC members are part of the class action.

- ◆ ARC Staff shared an online tool developed by SEMCOG to help track the Post Construction Stormwater Mgt metrics required by EGLE for your stormwater permit. The tool will be helpful in future permit negotiations with EGLE.
- ◆ ARC Staff held a joint Tech/PIE meeting to review the draft 2024 MS4 Reapplication Collaborative Plans on October 3, 2022.
- ◆ ARC Staff communicated with EGLE throughout the year on member community permits.
- ◆ ARC Staff supported communities during EGLE permit audits.
- ◆ ARC staff compiled Stormwater Management Plans for several communities and posted them to the ARC's website to meet the public notice requirement of the PPP.

PUBLIC INVOLVEMENT & EDUCATION (PIE) COMMITTEE

MEETING FACILITATION

Staff support was provided for one (1) PIE Committee meeting on October 3, 2022. Topics included updating the Collaborative PPP and PEP for the next permit cycle beginning in 2024. ARC Staff supported the PIE Committee with regular email communications regarding PIE activities including scope and budget changes and review of new public education materials and messages.

PUBLIC EDUCATION MATERIALS

ARC Staff made various public education materials available to ARC members through the ARC website during 2022. Several items were restocked in 2022 including pet waste containers, fertilizer clips and various printed materials. ARC Staff surveyed ARC Members prior to creating new public education items to determine the topic. New items in 2022 included a brochure, display banner, social media graphic and newsletter article which focused on Best Management Practices for Businesses in the Rouge River watershed. More than 7,000 items were distributed to member communities and at various community events and workshops. Distribution details are included in the [PIE Materials Distribution Report](#). Listed below are descriptions of the public education items and any specific activities in 2022.

When it Comes to Chemicals – Change is a Good Thing!

This tri-fold brochure focuses on changing chemical use to help protect water quality in the Rouge River. It provides information on changing to a chemical alternative, changing how you use chemicals and changing how you dispose of chemicals. The brochure also provides valuable links to southeast Michigan County's HHW collection events. A total of 230 copies were sent filling requests in 2022.

Watershed Wisdom for Homeowners – Healthy Habits for Clean Water Brochure

The Watershed Wisdom for Homeowners brochure educates the public about healthy habits for clean water. The brochure has been distributed to members, realtors and homeowners' associations within the Rouge River watershed. A total of 400 copies were sent filling requests in 2022.

Protect Water Quality All Season Long! Posters

ARC members posted these in support of their permit requirements in facilities, libraries or other buildings that the general public frequent. Posters are also distributed to the general public at community events. A total of 24 copies were sent filling requests in 2022.

Have a Business in the Rouge River Watershed?

ARC staff created a new brochure in 2022 for Business Owners which educates business owners that are in the Rouge River watershed on best management practices that can be incorporated to protect water quality inside, outside and under their business. The brochure was created in 2022 with distribution beginning in January 2023.

ARC Public Education Brochure

This flyer is used to educate the public about the ARC and its activities.

ARC Member Brochure

The ARC Member Brochure was distributed to ARC member communities with their membership invoices. The brochure describes the ARC, member benefits, projects and committees. It is also distributed to other interested communities and organizations wanting to learn about the ARC.

Waterfront Wisdom Brochure

A booklet for riparian homeowners in the Rouge River Watershed. The publication was originally published by the Oakland County Water Resources Commissioner's Office Environmental Team.

Detention Pond Maintenance Manuals

A guidebook for private owners in southeast Michigan to educate them on the maintenance of detention ponds.

Black-Eyed Susan Seeds and Tip Card

Black-eyed Susan seed packets are distributed to the general public along with a tip card which educates them on the benefits of native plants.

Value of Trees

The Value of Trees tip card educates the general public on the benefits of planting native trees.

Protect the Rouge River at Home – Dispose of Fats, Oils and Grease (FOG) Properly

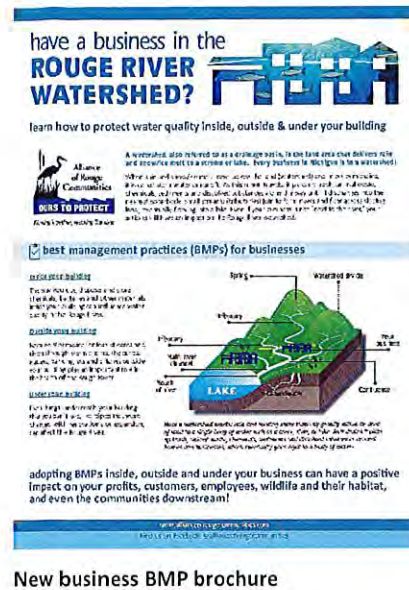
The FOG brochure educates the public on the proper disposal of fats, oils and grease in the house. Brochures were also distributed at member public events, the Great Lakes Restoration event and also as part of seedling giveaways at additional events.

Additional Rouge Grant and SEMCOG Printed Pieces

The ARC has a limited supply of SEMCOG printed material and continues to distribute those when requested.

Bookmarks

The bookmarks publicize the ARC and promote Rouge Friendly tips to the public.



ARC BANNERS

As part of the Collaborative PEP the ARC committed to creating static display banners throughout the permit cycle. Below are the banners that have been previously created and continue to be rotated throughout the watershed (see [Banner Report](#)) where ARC member communities sign up to host the banners at one of their facilities for 2 weeks at a time.

- ◆ **ARC General Banners** (3 sets) - focuses on the connection of the MS4 to area waterbodies and the potential impacts discharges could have; the importance of pollution prevention and watershed restoration and stewardship; reporting illicit discharges; promoting proper disposal practices; identify and promote facilities for collection or disposal of household hazardous wastes; septic system maintenance; proper application and disposal of pesticides, herbicides, and fertilizers; proper disposal practices for grass clippings, leaf litter and animal; benefits of green infrastructure; and methods for managing riparian lands to protect water quality.
- ◆ **Chemicals** – Change is a Good Thing - focuses on changing to a chemical alternative, changing how you use chemicals and changing how you dispose of chemicals. It also provides links to southeast Michigan County's HHW collection events.

2022 Activities included:

- ◆ ARC staff created a new set of banners in fall, 2022, which educates business owners that are in the Rouge River watershed on best management practices that can be incorporated to protect water quality inside, outside and under their business. These banners will be available for reservations to ARC member communities starting in 2023.

COMMUNITY ARTICLE /AD GRAPHIC

ARC Staff have created articles that ARC members can use in their community newsletters or magazines along with an ad graphic on the same topic that can be used on websites and social media. Previously created articles and ad graphics have been posted to the ARC's website and Facebook account. The previously created articles/ad graphic topics include:

- ◆ *Brine Instead of Rock Salt to Protect Water Quality!*
- ◆ *What Is a Watershed & What Does It Have to Do with Me?*
- ◆ *When it comes to household chemicals – change is a good thing!*
- ◆ *Let's all dispose of fats, oils & grease (FOG) properly.*

2022 Activities included:

- ◆ ARC staff created a new article and ad graphic in 2022 titled [Business Owners – protect water quality inside, outside & under your building!](#)



Banners created in 2022 for businesses in the Rouge River watershed.

Have a Business in the Rouge River Watershed?



Ad graphic created in 2022 for businesses in the Rouge River watershed.

GIVEAWAYS

Pet Waste Containers

Pet waste containers promote clean water with the message *"In the Bag, Not the River"*. The ARC restocked these in 2022 through our partnership with the One Water Campaign.

Fertilizer Clips

Fertilizer clips with the ARC logo and the phrase: "Fertilize Sparingly and Caringly." These were restocked in 2022 with an order of 5,000 additional clips.

Jar Opener

The message on the jar opener includes "If you live here (state of Michigan), you live in a watershed" and lists several activities that the public can do to help protect water quality in the Rouge River. 5,000 jar openers were ordered and 100 of each were distributed to ARC members for giveaways in their facilities that the public visit in 2022.

Community Vehicle Magnets

A vehicle magnet was designed with the message "If you live here (state of Michigan), you live in a watershed" to help educate people that we all live in a watershed. After surveying ARC members, a limited number of communities allow magnets on their vehicles, however there was enough interest to order 500 of them with 60 distributed in 2022.

ARC WEBSITE & SOCIAL MEDIA

ARC Staff continued adding additional information and content to the ARC's website at www.allianceofrougecommunities.com, providing more information for the general public on what they can do to help protect water quality and promotes the ARC's restoration activities in the watershed. The website continues to provide ARC members valuable information to assist with meeting their stormwater permits while providing educational information on the Rouge River Watershed. In 2022 ARC Staff focused on developing individual pages for each of the ARC's grant-funded restoration projects. The ARC website was moved from one hosting company to another in 2022 so unfortunately the visitor statistics are either not available or incomplete and will not be reported this year. It is assumed that with the addition of many new pages there was an increase in visitors in 2022 from the 3,679 visitors in 2021.



Dedicated website pages for ARC restoration projects

ARC Staff initiated a [Facebook account](#) for the ARC at the beginning of 2016. Facebook posts included educational messages and photos to educate the public on ways to protect the Rouge River along with promoting ARC and partner events and volunteer opportunities. ARC Staff added 57 posts to the ARC Facebook and encouraged ARC member communities to Like and Share the ARC's posts. The ARC's Facebook account had 317 followers and 266 total page likes with a page reach of 18,447 at the end of 2022. ARC Staff also respond to public comments and questions received on the ARC Facebook account or forwarded them to ARC member representatives when necessary.

Details on the traffic and posts on the ARC's website and Facebook can be found in the [Electronic Media Report](#).

OUTREACH ACTIVITIES

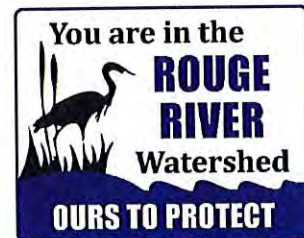
The 2022 PIE outreach activities including workshops, workdays and presentations and promoting various Friends of the Rouge events. The detailed report is provided in the [Promoted & Hosted Workshop-Volunteer Report](#). The ARC also promoted Cooperating Partners events including Friends of the Rouge.

Additional 2022 Activities included:

- ◆ Upon request, ARC Staff provided a presentation to the Kiwanis Club of Colonial Plymouth on July 14, 2022, on water quality stewardship.
- ◆ ARC Staff coordinated the locations for FOTR rain barrel sales in Southfield and Livonia in 2022.
- ◆ The ARC conducted a water quality survey in 2022 and received more than 3,600 responses. The survey compared the public's opinion on the water quality changes in the Rouge River which will help determine our future public education activities. The results are [summarized in a report](#) that was produced in early 2023 and can be found on the ARC website.
- ◆ The ARC received a request from the Huron River Watershed Council to share its process in preparing the water quality survey in preparation of producing their own survey.
- ◆ ARC Staff mailed ARC brochures at the request of a resident of Farmington Hills.

WATERSHED SIGNAGE

In 2022 ARC Staff worked with the ARC communities, the Road Commission for Oakland County and outside vendors to design, fabricate, distribute, and install 144 of the Rouge Ours to Protect watershed signs. ARC Staff acquired quotes for fabrication of the signs. ARC Staff surveyed member communities on their ability to install the signs with their own staff and whether they needed posts for the signs to minimize costs of installation. ARC Staff worked with both Oakland and Wayne County to get permits to cover all communities. Both Oakland and Wayne Counties provided in-kind services for the permitting process. ARC Staff mapped and marked all sign locations at each site. For those communities that did not have staff to install the signs either the Road Commission of Oakland County or an outside vendor installed their signs. ARC staff delivered all signs/posts to each community or provided to the outside installers. ARC Members have until spring 2023 to install their signs. All signs installed by outside vendors have been completed.



Watershed sign



Sign installation location marked with pink paint and flag



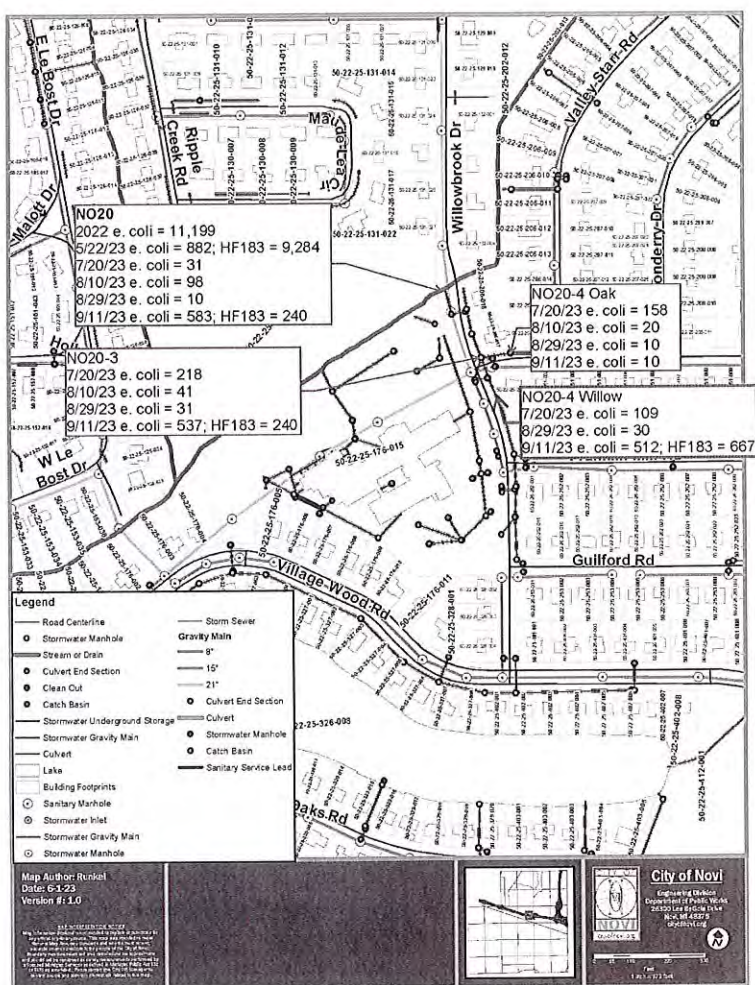
New watershed sign installed in Canton



Working together, restoring the river

EXECUTIVE DIRECTOR'S 2023 ANNUAL REPORT

In 2023 the ARC's IDEP activities focused on advanced investigations in priority areas.



The map shows sampling that was done to try to identify a suspected illicit connection in Novi in response to elevated *E. coli* levels that were identified during screening for the Collaborative TMDL in 2022. Work is ongoing for this site.



ARC staff sampling at an outfall



Televising equipment in a manhole



Green dye seen coming from an illicit connection when dye testing

March 2024

Submitted by:



2001 Commonwealth Blvd., Suite 300
Ann Arbor, MI 48105

ARC EXECUTIVE DIRECTOR'S 2023 ANNUAL REPORT

The 2023 Alliance of Rouge Communities (ARC) Executive Director's Annual Report summarizes the activities conducted by the ARC from January 1, 2023, to December 31, 2023, including products and outcomes from routine administration and meetings of the ARC and all its committees. It also includes results from ARC Illicit Discharge Elimination Program (IDEP) activities and public education activities, including workshops and developed products.

EXECUTIVE DIRECTOR SERVICES

ARC MEETINGS AND ADMINISTRATION

FULL ALLIANCE MEETINGS

ARC Staff supported two (2) Full ARC meetings including preparation of the agenda (under the direction of the Chair), distribution of the materials prior to meetings, facilitation of the meetings (including notetaking and tallying of votes at the meeting), preparation of E-votes, and preparation/distribution of meeting summaries to members and other interested parties.

Full ARC meeting summaries can be found on the ARC's website.

EXECUTIVE COMMITTEE MEETINGS

The Executive Committee discusses and approves items in advance of full ARC meetings including development and amendments to budgets and contracts. ARC Staff supported three (3) Executive Committee meetings including (under the direction of the ARC Officers) preparation of the agenda, distribution of the materials prior to the meetings, preparation of E-votes, facilitation of the meetings (including note-taking and documenting recommendations considered and actions taken), and meeting summary preparation and distribution. This subtask also included ongoing support services for the committee outside of the regular meetings.

ARC Executive Committee meeting summaries can be found on the ARC's website.

FINANCE COMMITTEE MEETINGS

The Finance Committee, supported by ARC Staff, developed and administered the annual budget and work plan. ARC Staff prepared monthly financial reports, budget amendments, mailed dues invoices to members, collected dues, submitted grant reimbursement requests and paid the ARC's bills. ARC Staff facilitated two (2) Finance Committee meetings on July 9, 2023, and November 2, 2023, and prepared the agenda, distributed materials regarding budget amendments and the annual budget recommendations for review prior to the November Executive Committee meeting.

ADMINISTRATIVE SERVICES

ARC Staff provided administrative oversight of the ARC day-to-day activities by staff, consultants, contractors, and external relationships with other agencies, organizations, and individuals to meet the goals of the ARC.

2023 Activities included:

- ◆ The 2022 ARC annual report was completed and submitted to the ARC in March 2023.

FINANCIAL SERVICES

ARC Staff provided accounting services in accordance with the ARC's Accounting Procedures Manual including processing of payables and receivables.

2023 Activities included:

- ◆ ARC Staff attended the following EPA webinars: March 15, 2023 – EPA Grants Financial Management, June 20, 2023 - EPA Pass-Through Grant Applicants, Recipients, and Subrecipients and June 27, 2023 - EPA Grants Procurement, Subawards, and Participant Support Costs
- ◆ ARC Staff provided monthly reports for the ARC Treasurer and ARC members from January 1, 2023 through December 31, 2023.
- ◆ ARC Staff provided necessary staff to meet the separation of financial duties and responsibilities documented in the ARC's Accounting Procedures Manual so that no Executive Director Staff member has sole control over cash receipts, bank reconciliations, accounts payable, mail or other accounting functions.
- ◆ ARC Staff maintained separate general ledger accounts as required by funding source regulations.
- ◆ ARC Staff maintained financial records and files as required by the ARC Accounting Procedures Manual including grants and vendor contracts.
- ◆ ARC Staff submitted all required information for grant reimbursement requests and grant reporting.
- ◆ ARC Staff assisted and provided information for the 2022 Single Audit, financial statement and taxes.
- ◆ ARC Staff worked with both the Finance and Executive Committee to develop the 2024 ARC Budgeting Package which included a 2% increase in dues along with a new 5-Year Plan for 2024-2028
- ◆ ARC Staff prepared monthly financial reports, mailed dues invoices to members, collected dues, submitted various grant reimbursement requests and paid the ARC's bills.

OUTREACH AND ADVOCATE

ARC Staff promoted the ARC as the advocate for the Rouge River Watershed, served as the primary spokesperson for the ARC, responded to requests for information and sought opportunities to promote ARC awareness. ARC Staff served as the ARC primary liaison to the general public, all members, including both formal and informal interaction with government officials, legislators and staff on a regular basis.

GOVERNMENTAL ACTIVITIES

2023 Activities included:

- ◆ ARC Staff provided project information for EPA's website on various ARC restoration projects.
- ◆ ARC Staff participated in a tour which included a stop at the Oxbow at The Henry Ford for the International Joint Commission WQB Meeting in Detroit on May 3, 2023.
- ◆ ARC Staff attended Great Lakes Days in Washington, D.C. on March 8 and 9.
- ◆ ARC Staff provided comments on the draft Statewide Septic Code House Bill No. 4479.
- ◆ ARC Staff conducted a tour for the USDA Forest Service on March 30, 2023. The tour included visiting Forest Service funded projects in the Rouge River



Forest Service site tour

watershed including Marv Gans Community Park (tree planting) in Northville Township, Plymouth Municipal Yard Rain Garden, Bicentennial Park (tree planting) in Livonia, and Beech Woods Rain Gardens in Southfield.

STATEWIDE PUBLIC ADVISORY COUNCIL (SPAC)

- ◆ ARC Staff attended SPAC meetings on February 6, 2023, and May 31, 2023.
- ◆ ARC Staff attended SPAC Habitat Subcommittee meetings in 2023 on January 19, March 22, June 1 and October 18.
- ◆ ARC Staff attended the Great Lakes Areas of Concern Conference September 12-14 in Green Bay.
- ◆ ARC Staff supported RRAC at their 2023 meetings including January 17, 2023, April 18, 2023, July 18, 2023, and October 17, 2023.

ORGANIZATION PARTICIPATION

2023 Activities included:

- ◆ ARC Staff participated in the One Water Public Education Campaign that is being led by SEMCOG. The campaign provides a regional public education strategy, led by local stakeholders, that provides common water resource messaging in southeast Michigan focused on stormwater, wastewater and drinking water. The messaging encourages water resource stewardship, encourages adoption of best management practices, and supports long-term investment in infrastructure.
- ◆ ARC Staff participated in SEMCOG's Regional Stormwater Standards Coordinating Committee on November 9.
- ◆ ARC Staff participated in the GLWA Watershed Hub work group and full group meetings to advance water quality monitoring in the region on August 23, October 25, and November 29.
- ◆ ARC Staff continued to participate in the Southeast Michigan Partners for Clean Water work group with meetings on September 27 and December 7.
- ◆ ARC Staff participated in the Healing Our Waters (HOW) conference on October 12-13.
- ◆ The ARC received the following awards for their restoration projects: Michigan American Public Works Association (APWA) Project of Year Award – Environmental \$1-5 Million: Wayne County Parkland Restoration Project and Keep Michigan Beautiful Award – Henry Ford Estate Fishway Project.
- ◆ ARC Staff collaborated with the Alliance of Downriver Watersheds to share best practices for permit compliance and to discuss opportunities for collaboration of some activities to reduce costs to both organizations.
- ◆ ARC Staff attended Michigan Matters: Community Water Legislation Forum on August 30, 2023.
- ◆ ARC Staff participated in the Healthy Climate Focus Group: Natural and Working Lands on October 18, 2023.
- ◆ ARC Staff attended an informational meeting on the Environmental and Ecosystem Services Tool on October 30, 2023.
- ◆ ARC Staff attended the Resiliency Framework Stakeholder Meeting on November 28, 2023.
- ◆ ARC Staff promoted the Friends of the Rouge Winter Stonefly Search (1/21/23), Spring Bug Hunt (4/15/23) and Fall Bug Hunt (10/14/23) on the ARC website and Facebook.
- ◆ In June 2023, the ARC was included in a letter coordinated by HOW Coalition partners in support of match funding for contaminated sediment remediation in southeast Michigan.
- ◆ The ARC hosted the 4th Great Lakes Restoration Celebration on September 22, 2023, at The Henry Ford. The Henry Ford donated the space, ECT sponsored the continental breakfast and SEMCOG sponsored the printing of the restoration project book that was distributed at the

event. All ARC members were invited to this free event which promoted and celebrated the grant funded restoration activities in Southeast Michigan and was attended by more than 110 federal, state, and local units of government along with those watershed groups (including the ARC) conducting the restoration activities. Included in the day's activities was a fish restocking at the Rouge Oxbow at The Henry Ford. A book highlighting restoration projects in Southeast Michigan was handed out. Speakers included Christopher Korleski, Director, U. S. EPA Great Lakes National Program Office (GLNPO), Teresa Seidel – Director, Water Resources Division, Michigan Department of Environment, Great Lakes, and Energy and Julie Simmons, Great Lakes Regional Coordinator, National Oceanic and Atmospheric Administration (NOAA).

- ◆ In November 2023, ARC Staff shared the draft report cards developed by the University of Maryland Center for Environmental Science, in partnership with the Erb Family Foundation, Friends of the Rouge, Friends of the Detroit River, River Raisin Watershed Council, Clinton River Watershed Council, and the Huron River Watershed Council and asked for comments from the ARC Members. The draft watershed report cards include one for each of the 5 river watersheds in Southeast Michigan as well as a report card for the overall region.
- ◆ ARC Staff taught a class for the Michigan SeaGrant MSU Extension about lake ecology specifically detailing the ARC's Nankin Lake Restoration project on September 28.
- ◆ ARC Staff gave a presentation on June 10 for the Trout Unlimited/City of Northville Fish Day on Washtenaw County's Johnson Creek project and the ARC's Fish Hatchery Park project.

MEMBER AND GENERAL PUBLIC REQUESTS

2023 Activities included:

- ◆ The ARC did not receive any FOIA requests from January 1, 2023, through December 31, 2023.
- ◆ ARC Staff forwarded various emails from residents to community representatives for follow-up.
- ◆ ARC Staff promoted Friends of the Rouge volunteer and monitoring activities and Rouge Rescue events on the ARC website and Facebook.
- ◆ ARC Staff promoted Oakland County's 19th annual Kids' Clean Water Calendar Contest.
- ◆ ARC Staff promoted the Rouge River Water Festival held at the Cranbrook Institute of Science.
- ◆ ARC Staff provided restoration project information to a UofM School for Environment and Sustainability, Ecosystem Science and Management Masters Student to assist with their thesis.
- ◆ ARC Staff worked with both Livonia and Village of Franklin regarding a Friends of the Rouge contact for woody debris management to work with their residents on logjams on private property.
- ◆ ARC Staff met with new staff in the City of Romulus on November 20 to provide them with information on their ARC benefits and to offer any assistance they may need with their permit requirements.
- ◆ ARC Staff provided information to the Dearborn Press and Guide for the article *Great Lakes Restoration Initiative, Alliance of Rouge Communities Talk About Restoring Waterways* that was published October 22, 2023. The article also appeared in the Great Lakes Daily News.

PURSuing GRANT OPPORTUNITIES

The Executive Director staff applied for the following grants in 2023 on behalf of the ARC:

- ◆ EPA Environmental Justice – ARC staff continued to refine the Rouge River AOC Environmental Justice grant that was submitted by ARC Staff in 2022. At the request of EPA in January 2023, the request was broken up into 5 applications. ARC working with Wayne County Parks, City of Inkster, and FOTR submitted 3 grant packages (approximately \$17 million) for community connectivity/park amenities layer associated with the Colonial/Inkster Park Habitat Restoration

and Venoy Park Habitat Restoration projects. The ARC has been following up with EPA on the Inkster Park package. If awarded work is anticipated to start in winter 2024 (award pending).

- ◆ National Fish and Wildlife Foundation Sustain Our Great Lakes – The ARC submitted a pre-proposal for the project titled Rouge River AOC – WC Parkland Habitat Restoration Protection in the amount of \$225,000. The ARC was not invited to submit a full proposal.
- ◆ EGLE AOC GLRI Grant - ARC Rouge River Area of Concern PAC Support (awarded 2/27/23 to the ARC \$154,500)
- ◆ EGLE Watershed Council Support Grant – The ARC attended the webinar on April 13, 2023 that reviewed the available grant. The ARC submitted an application for Southeast Michigan MS4 Training Program with support from SEMCOG (grant not awarded \$40,000).
- ◆ In June 2023 the ARC received direct funding from EPA for the Merriman Hollow Restoration (\$215,000) - Riparian Wetland Creation of 0.8 acres. The proposed project site is adjacent to the Rouge River and would create wetlands in the existing riparian floodplain lawn area. This will provide a natural habitat for mammals, reptiles, fish and amphibians. This direct funding also included the Wallaceville West Restoration (\$150,000)- Riparian Wetland Creation of 0.8 acres. The proposed project will create wetlands and/or wet prairie in existing riparian floodplain lawn area. The wetland would be adjacent to the Rouge River and have several direct connections to the river. A boardwalk/bridge with box culvert may be necessary to connect sections of the wetland while maintaining access to the exiting foot bridge that provides access to an active recreation area.
- ◆ Erb Family Foundation – The ARC submitted an application and was awarded the grant project titled *Employing Training and Investigational Sampling to Improve Water Quality In The Rouge River Watershed*. This project will support identifying where sanitary sewage is entering the Rouge River within the Rouge Valley Sewage Disposal System service area and provide training to municipal staff on how to comply with their stormwater permit. (\$375,000 awarded in September 2023)
- ◆ USDA Forest Service Urban & Community IRA – The ARC submitted an application titled Tree Canopy Investment in Underserved Communities in Southeast Michigan (grant amount was \$3,425,330 and was not awarded).
- ◆ Wildlife Forever and USDA Forest Service – The ARC submitted an application for public education material focused on implementing community outreach to prevent Aquatic Invasive Species (AIS) in the Great Lakes Region. (grant was not awarded)

Additional grant activities include:

- ◆ ARC Staff encouraged the members to submit project ideas that can potentially be used as stream mitigation sites by developers.
- ◆ ARC Staff prepared various letters of support for partners applying for grants.
- ◆ ARC Staff updated information to maintain the ARC's status in the Federal government's System for Award Management (SAM), Grants.gov and with the DUNS number. These are required to be current and renewed annually to apply for federal grants.
- ◆ ARC Staff researched and surveyed ARC Members seeking their input in determining the scope of the ARC's application for various grant applications throughout 2023.
- ◆ ARC Staff hosted a public meeting on the ARC's Wilcox/Phoenix/Inkster restoration project on March 1, 2023, with 31 attendees.
- ◆ ARC Staff prepared a letter to GLWA in support of the Southeast Michigan Regional Monitoring Program. ARC staff continued to work with regional partners (GLWA, Counties, DWSD and SEMCOG) to advance a long-term regional monitoring program and the investigational sampling plan to identify storm drains and waterways being impacted by unknown sources of sanitary

sewage. Both efforts launched in 2023 within the GLWA service areas of Macomb, Oakland, and Wayne counties. This includes the investigational sampling plan within sanitary sewer districts in the Clinton River watershed (Macomb and Oakland counties) and within the Evergreen Farmington Sanitary Drain Drainage District in the Rouge River watershed (Oakland County) and along the Lower Branch of the Rouge River (Wayne County).

- ◆ On June 2, 2023, ARC Staff participated in an EPA Desk Review of the ARC Grant titled “Rouge River AOC Habitat Restoration Implementation – Wayne County Parkland.” ARC Staff provided financial information along with discussing project progress and answering questions posed by EPA during the virtual meeting.

ARC Staff reviewed the following grants and either assisted an ARC Member in preparing it, forwarded them to individual communities to consider applying for or recommended that the ARC not apply:

- ◆ ARC Staff reviewed the EGLE Nonpoint Source Watershed Implementation funding and attended September 7, 2023, informational webinar and did not submit an application.
- ◆ ARC Staff attended the informational webinar on January 26, 2023, for the EPA Environmental Justice Government-to-Government Program. The ARC did not submit an application.
- ◆ ARC Staff attended the informational webinar on March 2, 2023, for the National Fish and Wildlife Foundation National Coastal Resilience Fund. The ARC did not submit an application.
- ◆ ARC Staff attended the informational webinar on January 24, 2023, for the EPA Environmental Justice Collaborative Problem-Solving Cooperative Agreement Program. The ARC did not submit an application.
- ◆ ARC Staff reviewed SEMCOGs Green Stormwater Infrastructure Program. The ARC did not submit an application.

TECHNICAL COMMITTEE

MEETING FACILITATION

Staff support was provided for two (2) Technical Committee meetings on February 28, 2023, and October 16, 2023. Topics in February included IDEP findings, investigation priorities from communities, permit renewal information, and information on the post construction reporting tool. In addition, the work plans for IDEP investigations conducted by ECT and Wayne County were approved by the Technical Committee. Topics in October included facility dye testing discussion, training updates, 2023 budget amendments, and ERB grant funding plans.

IDEP FIELD INVESTIGATIONS

Consistent with the Rouge River Collaborative IDEP Plan, illicit discharge investigations were conducted in Oakland and Wayne counties.

ARC Staff conducted investigations for Oakland County in the cities of Beverly Hills and Novi. ARC Staff assisted Wayne County with investigations in Livonia, Inkster, and Dearborn Heights. The written findings of each investigation were provided to each community and summarized in the 2023 ARC IDEP Summary.

Wayne County Department of Public Services, Environmental Services Division (ESD) conducted advanced investigations in the cities of Plymouth and Livonia and are detailed in the [2023 Wayne County IDEP Summary](#).

The Oakland County Water Resources Commissioners Office conducted advanced investigations in the cities of Farmington and Farmington Hills and are detailed in the [2023 Oakland County IDEP Summary](#).

ROUGE RIVER WATERSHED INVESTIGATIONAL SAMPLING

ARC Staff submitted a proposal to Oakland County's Evergreen Farmington Sanitary Disposal System to complete sampling and data analysis in the Rouge River Watershed. The purpose of this work was to improve water quality in the Rouge River by identifying areas where wastewater is impacting the river and its tributaries. This was accomplished by conducting routine sampling of the river and its tributaries at numerous locations to identify stream segments with high E. coli concentrations. This sampling was conducted in dry and wet weather conditions.

IDEP TRAINING

ARC Staff coordinated with SEMCOG to provide and encourage ARC member participation in regional IDEP and Pollution Prevention Good Housekeeping training courses sponsored by SEMCOG. The IDEP Alert Observer training held on October 10, 2023, was attended by 32 people in person and 32 people via Zoom. The IDEP Investigator training held on October 10, 2023, was attended by 37 people. The IDEP Alert Observer training held October 11, 2023, was attended by 23 people in person and 18 people via Zoom. The IDEP Investigator training held on October 11, 2023, was attended by 23 people.

TMDL IMPLEMENTATION

ARC Staff prepared the [Rouge River Watershed TMDL Implementation Plan Metrics Report](#) which tracked metrics specified in the Collaborative Total Maximum Daily Load (TMDL) Implementation Plan were assessed in this report to evaluate progress being made towards reaching goals that were designed to improve water quality in the Rouge River watershed in accordance with TMDL requirements. This report assesses how well the ARC has achieved goals set out in the Collaborative IDEP Plan, the Collaborative PEP, and individual community metrics.

MS4 PERMIT

2023 Activities include:

- ◆ In March 2023, ARC Staff drafted the next permit's (2024-2028) [Collaborative Public Participation Plan](#), [Collaborative Public Education Plan](#), [Collaborative IDEP Plan](#) and [Collaborative TMDL Plan](#) which were reviewed and approved by ARC Members and submitted to EGLE for April 1.
- ◆ In November 2023, ARC Staff began negotiations with EGLE regarding collaborative plan reapplications.
- ◆ ARC Staff shared a template for the annual Alternative Compliance Report that was due for Post Construction Stormwater Control. ARC Staff shared with permittees a webinar link and encouraged them to use the SEMCOG tool to aid in reporting (and tracking development in the region).
- ◆ ARC Staff informed member communities on the Notice of Class Action Lawsuit-Monsanto Company. Payments from the PCB class action lawsuit are starting to be issued to communities.

Despite ARC efforts, it doesn't look like townships were included in the Settlement. Per the Settlement, the funding is to be used for "PCB sampling and/or PCB mitigation efforts". ARC Staff polled members on their interest in pooling Settlement funds with other ARC members to conduct water quality sampling across the watershed. This would generally involve collecting existing data, sample collection (storm, sanitary and/or instream), and backtracking in the sewers/drains to locate PCB sources.

- ◆ ARC Staff held a joint Tech/PIE meeting to review the draft 2024 5-year budget and 2024 budget recommendations which will coordinate the next permit activities on October 16, 2023.
- ◆ ARC Staff communicated with EGLE throughout the year on member community permits.
- ◆ ARC Staff supported communities during EGLE permit audits including Beverly Hills, Plymouth Township, Melvindale, Farmington Hills and Wayne.
- ◆ ARC staff compiled Stormwater Management Plans for several communities and posted them to the ARC's website to meet the public notice requirement of the PPP.

PUBLIC INVOLVEMENT & EDUCATION (PIE) COMMITTEE

MEETING FACILITATION

Staff support was provided for one (1) PIE Committee meeting on October 16, 2023. Topics included review of the new 5-year plan and for the next permit cycle beginning in 2024 through 2028 and the 2024 budget recommendations. ARC Staff supported the PIE Committee with regular email communications regarding PIE activities including scope and budget changes and review of new public education materials and messages.

PUBLIC EDUCATION MATERIALS

ARC Staff made various public education materials available to ARC members through the ARC website during 2023. More than 14,150 items were distributed to member communities and at various community events and workshops. Several items were restocked in 2023 including the FOG brochure, chemical brochure, general ARC brochure and the value of trees brochure. ARC Staff surveyed ARC Members prior to creating new public education items to determine the topic. New items in 2023 included a brochure, display banner, social media graphic and newsletter article which focused on watersheds and water quality. Distribution details are included in the [PIE Materials Distribution Report](#). Listed below are descriptions of the public education items and any specific activities in 2023.

When it Comes to Chemicals – Change is a Good Thing!

This tri-fold brochure focuses on changing chemical use to help protect water quality in the Rouge River. It provides information on changing to a chemical alternative, changing how you use chemicals and changing how you dispose of chemicals. The brochure also provides valuable links to southeast Michigan County's HHW collection events. A total of 475 copies were sent filling requests in 2023.

Watershed Wisdom for Homeowners – Healthy Habits for Clean Water Brochure

The Watershed Wisdom for Homeowners brochure educates the public about healthy habits for clean water. The brochure has been distributed to members, realtors, and homeowners' associations within the Rouge River watershed. A total of 645 copies were sent filling requests in 2023.

How Watersheds Work/How Water Quality Works

This new brochure was created in 2023 and is a double-sided brochure focusing on what a watershed is, how it works, and its relationship to water quality. It also explains the sources that degrade water quality and provides changes the public can make to reduce the impact they have on water quality. 5,000 copies were ordered in 2023 with distribution to ARC members beginning in January 2024.

Protect Water Quality All Season Long! Posters

ARC members posted these in support of their permit requirements in facilities, libraries, or other buildings that the public frequent. Posters are also distributed to the public at community events. A total of 146 copies were sent filling requests in 2023.

Have a Business in the Rouge River Watershed?

This flyer educates business owners that are in the Rouge River watershed on best management practices that can be incorporated to protect water quality inside, outside and under their business. The brochure was created in 2022 with distribution beginning in January 2023. A total of 4,700 copies were sent filling requests in 2023.

ARC Public Education Brochure

This flyer is used to educate the public about the ARC and its activities and was updated in 2023 to include more information on some of the ARC's restoration activities with 4,000 copies ordered.

ARC Member Brochure

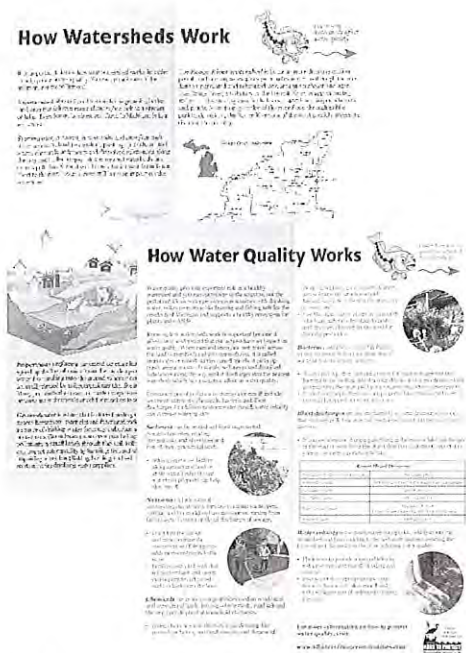
The ARC Member Brochure was distributed to ARC member communities with their membership invoices. The brochure describes the ARC, member benefits, projects, and committees. It is also distributed to other interested communities and organizations wanting to learn about the ARC.

Waterfront Wisdom Brochure

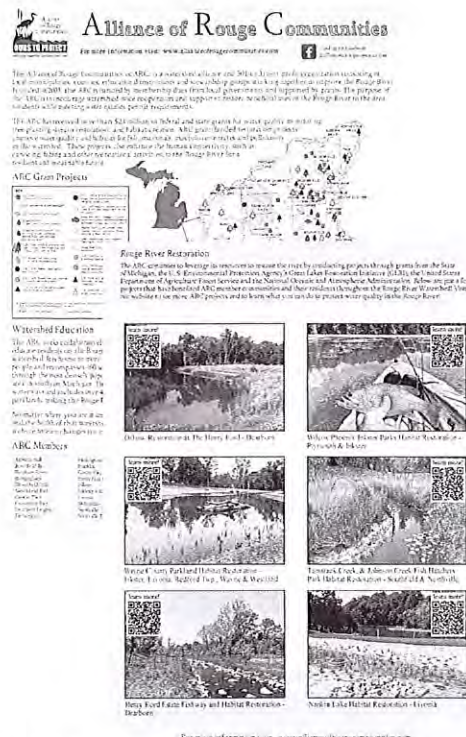
A booklet for riparian homeowners in the Rouge River Watershed. The publication was originally published by the Oakland County Water Resources Commissioner's Office Environmental Team.

Detention Pond Maintenance Manuals

A guidebook for private owners in southeast Michigan to educate them on the maintenance of detention ponds.



New brochure created in 2023.



Public Education Brochure Updated in 2023.

Black-Eyed Susan Seeds and Tip Card

Black-eyed Susan seed packets are distributed to the general public along with a tip card which educates them on the benefits of native plants. 100 seed packets were distributed in 2023.

Value of Trees

The Value of Trees tip card educates the general public on the benefits of planting native trees.

Protect the Rouge River at Home – Dispose of Fats, Oils and Grease (FOG) Properly

The FOG brochure educates the public on the proper disposal of fats, oils and grease in the house. Brochures were also distributed at member public events, the Great Lakes Restoration event and also as part of seedling giveaways at additional events. A total of 892 copies were distributed in 2023.

Additional Rouge Grant and SEMCOG Printed Pieces

The ARC has a limited supply of SEMCOG printed material and continues to distribute those when requested.

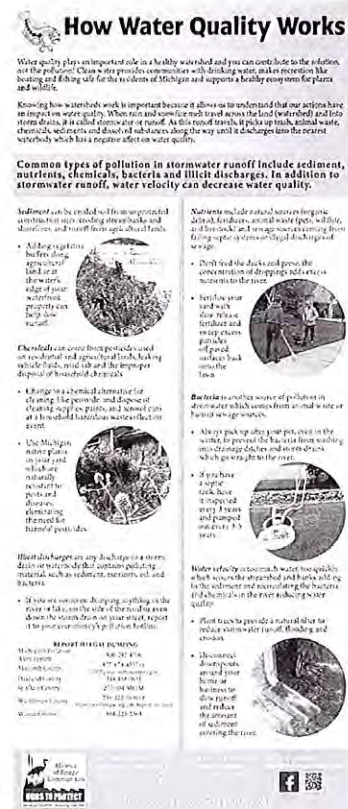
Bookmarks

The bookmarks publicize the ARC and promote Rouge Friendly tips to the public.

ARC BANNERS

As part of the Collaborative PEP the ARC committed to creating static display banners throughout the permit cycle. Below are the banners that have been previously created and continue to be rotated throughout the watershed (see [Banner Report](#)) where ARC member communities sign up to host the banners at one of their facilities for 2 weeks at a time. In 2023 the ARC's banners were displayed at 38 community locations.

- ◆ **ARC General Banners (2 sets)** - focuses on the connection of the MS4 to area waterbodies and the potential impacts discharges could have; the importance of pollution prevention and watershed restoration and stewardship; reporting illicit discharges; promoting proper disposal practices; identify and promote facilities for collection or disposal of household hazardous wastes; septic system maintenance; proper application and disposal of pesticides, herbicides, and fertilizers; proper disposal practices for grass clippings, leaf litter and animal; benefits of green infrastructure; and methods for managing riparian lands to protect water quality.
- ◆ **Chemicals – Change is a Good Thing** - focuses on changing to a chemical alternative, changing how you use chemicals and changing how you dispose of chemicals. It also provides links to southeast Michigan County's HHW collection events.
- ◆ **Business Owners – Have a Business in the Rouge River Watershed** – educates business owners that are in the Rouge River watershed on best management practices that can be incorporated to protect water quality inside, outside and under their business.



New water quality banner created in 2023.

2023 Activities included:

- ◆ ARC staff created a new set of banners in fall, 2023, which educates the public on what a watershed is and how it relates to water quality. It also provides things that the public can do to protect water quality. These banners will be available for reservations to ARC member communities starting in 2024.

COMMUNITY ARTICLE /AD GRAPHIC

ARC Staff have created articles that ARC members can use in their community newsletters or magazines along with an ad graphic on the same topic that can be used on websites and social media. Previously created articles and ad graphics have been posted to the ARC's website and Facebook account. The previously created articles/ad graphic topics include:

- ◆ *Brine Instead of Rock Salt to Protect Water Quality!*
- ◆ *What Is a Watershed & What Does It Have to Do with Me?*
- ◆ *When it comes to household chemicals – change is a good thing!*
- ◆ *Let's all dispose of fats, oils & grease (FOG) properly.*
- ◆ *Business owners – protect water quality inside, outside & under your building!*



Ad graphic created in 2023.

2023 Activities included:

- ◆ ARC staff created a new article and ad graphic in 2023 titled Water Quality Solutions

GIVEAWAYS

Pet Waste Containers

Pet waste containers promote clean water with the message "*In the Bag, Not the River*". A total of 1,800 were distributed to communities in 2023.

Fertilizer Clips

Fertilizer clips with the ARC logo and the phrase: "Fertilize Sparingly and Caringly." A total of 1,400 clips were distributed to communities in 2023.

Jar Opener

The message on the jar opener includes "If you live here (state of Michigan), you live in a watershed" and lists several activities that the public can do to help protect water quality in the Rouge River. A total of 800 were distributed to ARC members for giveaways in their facilities that the public visit in 2023.



GreenFest at the Detroit Zoo featuring the ARC's giveaways requested by Oakland County.

ARC WEBSITE & SOCIAL MEDIA

ARC Staff continued adding additional information and content to the ARC's website at www.allianceofrougecommunities.com, providing more information for the general public on what they can do to help protect water quality and promotes the ARC's restoration activities in the watershed. The website continues to provide ARC members valuable information to assist with meeting their

stormwater permits while providing educational information on the Rouge River Watershed. There was an increase in visitors in 2023 with more than 7,600 views.

ARC Staff initiated a [Facebook account](#) for the ARC at the beginning of 2016. Facebook posts included educational messages and photos to educate the public on ways to protect the Rouge River along with promoting ARC and partner events and volunteer opportunities. ARC Staff added 33 posts to the ARC Facebook and encouraged ARC member communities to Like and Share the ARC's posts. The ARC's Facebook account had 365 followers and 433 total page likes with a page reach of more than 6,600 during 2023. ARC Staff also respond to public comments and questions received on the ARC Facebook account or forwarded them to ARC member representatives when necessary.

Details on the traffic and posts on the ARC's website and Facebook can be found in the [Electronic Media Report](#).

OUTREACH ACTIVITIES

The 2023 PIE outreach activities included workshops, workdays and presentations and promoting various Friends of the Rouge events. The detailed report is provided in the [Promoted & Hosted Workshop-Volunteer Report](#). The ARC also promoted Cooperating Partners events including Friends of the Rouge.

Additional 2023 Activities included:

- ◆ ARC Staff coordinated the location for a FOTR rain barrel sale in Livonia on May 13, 2023. A total of 52 rain barrels were sold.
- ◆ The ARC conducted a water quality survey in 2022 and received more than 3,600 responses. The survey compared the public's opinion on the water quality changes in the Rouge River which will help determine our future public education activities. The results are [summarized in a report](#) that was produced in early 2023 and can be found on the ARC website.
- ◆ ARC Staff was asked by the Local Impact Alliance Lunch and Learn Program to do a presentation titled Discover Healthy Yard Maintenance Tips to Protect Your Watershed on March 15, 2023, in Plymouth. The presentation was attended by 17 people.
- ◆ ARC Staff presented to the Michigan Nursery and Landscape Association on November 1, 2023, attended by 40 people and November 9, 2023, attended by 50 people. The topic was being stewards of the environment – Maintaining detention ponds.
- ◆ ARC Staff attended and hosted a booth at the Cranbrook Institute of Science's Spring into Science Water After Dark event on March 30, 2023.
- ◆ The ARC received a request from the Huron River Watershed Council to share its process for the watershed signage including obtaining permits, vendor selection and installation options in preparation of doing a similar campaign.
- ◆ ARC Staff provided public education items for an Earth Day event in Heritage Park in Farmington Hills and included handouts, pet waste containers, fertilizer clips and jar openers.



Local Impact Alliance Lunch and learn presentation.



ARC display at Cranbrook Water After Dark event on March 30, 2023.

- ◆ The ARC supported Friends of the Rouge a green infrastructure maintenance workday in Canton at Hulsing Elementary School on September 30, 2023, with nine (9) volunteers.
- ◆ The ARC supported 2 Friends of the Rouge monitoring events including the Winter Stonefly Search on January 21, 2023, and the Spring Bug Hunt on April 15, 2023.
- ◆ ARC Staff shared EGLE's 2023 SepticSmart Week: Know Your Septic System! Webinar that was held on September 18, 2023 with members.
- ◆ ARC Staff attended and hosted a display at SEMCOG's GREEN Summit on April 27, 2023, to celebrate the regions green infrastructure network.
- ◆ Oakland County distributed 250 copies of their updated 24-Hour hotline brochure at the ARC Joint Tech/PIE Committee meeting on October 16.
- ◆ The ARC signed a contract with Near Perfect Media in 2023 who will be used to promote ARC activities, events and restoration projects through TV coverage and news/magazine articles benefiting the ARC's mission and all the ARC member communities.



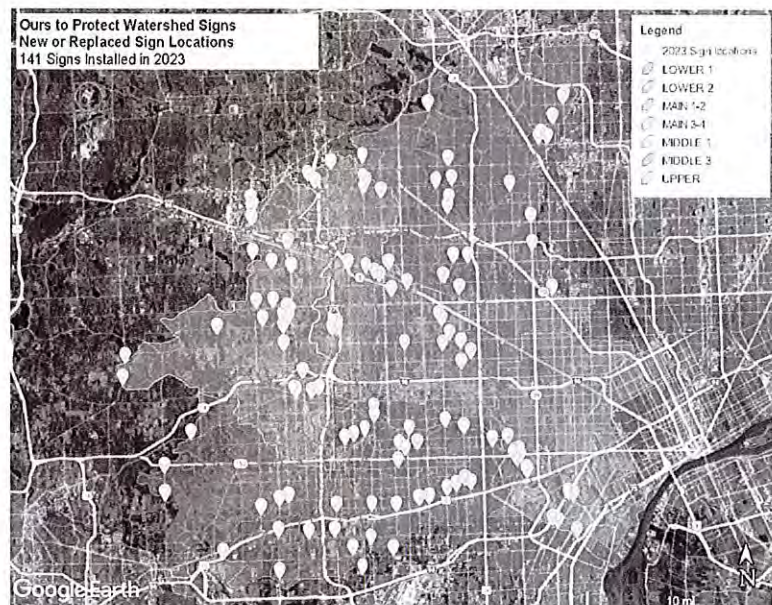
SEMCOG's GREEN Summit on April 27, 2023.

WATERSHED SIGNAGE

In 2023 ARC communities finished installing the new and replacement watershed signage and created a [map of the new signs](#). Beginning in 2022, ARC Staff worked with the ARC communities, the Road Commission for Oakland County, and outside vendors to design, fabricate, distribute, and install 141 of the Rouge Ours to Protect watershed signs. 21 of the signs were to replace damaged or missing signs and 120 were installed in new locations throughout the watershed. ARC Staff acquired quotes for fabrication of the signs. ARC Staff surveyed member communities on their ability to install the signs with their own staff and whether they could provide their own posts for the signs to minimize costs. ARC Staff worked with both Oakland and Wayne County to get permits to cover all communities and both counties waived permit fees. ARC Staff mapped and marked all sign locations at each site. For those communities that did not have staff to install the signs either the Road Commission of Oakland County or an outside vendor installed their signs. ARC staff delivered all signs/posts to each community or provided to the outside installers.



Sign installed in Oak Park.



City of Auburn Hills

LOCAL GOVERNMENT MEMBERSHIP FACTSHEET

Subwatershed(s): Paint Creek, Upper Clinton
Population In Service Area: 22744 | Acres In Service Area: 9951.85

CURRENT ACTIVITIES (as of last full service year - 2022)

Sites Monitored Through Adopt-A-Stream: CM3, CM8

Sites Monitored Through Stream Leaders: Riverside Park

Participation in Stream Leaders: Avondale High School, Avondale Middle School

Watertrail Community: Yes

WaterTowns Project Completed/Year Joined: Became a WaterTown in 2016.

Additional Events (River Day, Community, Table Displays): River Day - Pre-Paddle-Brews-a in 2023, Riverside Park in 2022 and 2023, Paddlepalooza in 2022 and 2023

Cleanups (Clinton Clean-Up, Weekly Cleans, Private Cleanups): Weekly Clean - River Woods Park in 2022 and 2023. Private Clean Ups - Riverside Park in 2022 and River Woods Park in 2023. Clinton Clean Up - River Woods Park in 2022 and 2023

Restoration Projects: Galloway Creek Wetland Restoration Project

CRWC is actively working to increase the services available to communities within the watershed, including additional volunteer opportunities such as cleanups and native plantings, recreation programs like Nourished by Nature, and opportunities for residents to implement green infrastructure. For more information about memberships, restoration projects, and to provide feedback, please visit crwc.org/join-us/become-a-member.

2024-2030 DUES

Dues Calculation

Population (22744 x \$0.09)	\$2047
	+\$500
Dues Total (to be reached CY2030)	\$2547

Dues Schedule by Calendar Year

2024	2025	2026	2027	2028	2029	2030
\$1500	\$1637	\$1819	\$2001	\$2138	\$2320	\$2547

NEXT STEPS

The Clinton River Watershed Council will send an invoice the week of November 20th, if you have questions or would like to discuss these changes in more detail, please visit <https://calendly.com/jennifer-crwc/local-government-membership-chat-with-crwc> to schedule a time to speak with CRWC's Executive Director, Jennifer Hill.



CLINTON RIVER WATERSHED COUNCIL

1115 W Avon Road, Rochester Hills
(248) 601-0606 crwc.org
jennifer@crwc.org
Clinton River Watershed Council
[@clintonriverwatershed](https://www.facebook.com/clintonriverwatershed)

Oakland County Phase II Stormwater Biennial Progress Report
Summary for Community Use
Prepared by the Oakland County Water Resources Commissioner's Office
October 1, 2021 – September 30, 2023

The Oakland County Water Resources Commissioner's Office (WRC) has prepared this summary to assist Oakland County communities in preparing their Phase II Stormwater Biennial Progress Report. The following activities were implemented by Oakland County during fiscal years 2022 and 2023 (FY 2022/2023) to protect and restore water resources throughout Oakland County. A complete copy of Oakland County's 2022-2023 Stormwater Biennial Progress Report will be available on the Oakland County Web site at <https://www.oakgov.com/government/water-resources-commissioner/stormwater/phase-ii-stormwater-reports> on or before April 1, 2024. For additional information on the programs listed below or other environmental programs offered by the WRC, please contact our Environmental Team at 248-858-0958 or envreq@oakgov.com.

Environmental Program Highlights

Household Hazardous Waste Recycling

The Oakland County Waste Resource Management Division sponsored eight (8) household hazardous waste disposal days in FY 2022/2023:

- April 30, 2022, September 24, 2022 and September 16, 2023 at the Oakland County Service Center Campus in Pontiac
- June 4, 2022 and June 3, 2023 at Oxford Middle School in Oxford
- July 23, 2022 and July 22, 2023 at Kensington Church in Orion Township
- April 29, 2023 at Pine Knob Music Theatre in Independence Township

A total of 1,149,121 pounds of waste was collected during the eight collection events. Over the past nineteen years, residents of nearly 69,000 households have disposed of more than 9 million pounds of hazardous materials which have been recycled or disposed of properly.

There were 35,755 website hits in FY 2022 and 29,327 website hits in FY 2023 to the County's Household Hazardous Waste Recycling Information.

Information on household hazardous waste disposal in Oakland County is available online at: www.nohaz.com.

Michigan Green Schools Program

The Michigan Green Schools program assists all Michigan schools – public and private – in achieving environmental goals. These goals include protecting the air, land, water and animals of our state along

with world outreach through good ecological practices and the teaching of educational stewardship. Students from pre-kindergarten through high school seniors are targeted. In FY 2022, 91 Oakland County schools have earned the Michigan Green School designation. Twenty-two (22) of the schools also received the special designation of Emerald Schools and 46 schools earned the Evergreen Schools status.

In FY 2023, 86 Oakland County schools earned the Michigan Green School designation. Thirteen (13) of the schools also received the special designation of Emerald Schools and 51 schools earned the Evergreen Schools status. Fifteen (15) of the 28 public school districts were represented in the program this year.

Information on the program for Oakland County is available on Oakland Schools' [website](#).

Native Plant Initiative

In the summer of 2020, the Oakland County Board of Commissioners launched the Native Plant Initiative. The program is designed to educate residents about the ecological benefits of cultivating native plants. Native plants help prevent the spread of invasive species which can crowd out other local species, contribute to erosion, promote the use of toxic pesticides and cause other problems for natural habitats.

In FY 2022 and 2023, more than 1,200 native plant kits each containing dozens of native plants were distributed to residents from many cities, villages and townships across Oakland County. Participants signed an environmental stewardship pledge and received kits with native flora along with information on how to plant and care for these beneficial species in their own gardens.

Details about the initiative and additional native plant resources are available [here](#).

Norton Street Innovation Project

The Norton Street Innovation Project is a green stormwater infrastructure project located in Pontiac (Clinton River Watershed) that is set to break ground in FY 2024. The project is located on the Augusta Drain property owned by the Augusta Drain Drainage District and maintained by the Water Resources Commissioner's Office. Goals for the project include the installation of bioretention cells to beautify the space and temporarily capture stormwater runoff before it enters the Augusta Drain, plant native trees and wildflowers to absorb and filter stormwater, reduce pollutants from entering the Clinton River, and create a gathering space for the local community to enjoy. An interactive storymap is available to learn more about the project and discover more about the timeline, goals and history of the space: <https://storymaps.arcgis.com/stories/829aafa6473f491e9f15ae638794736e>.

The project is funded with a \$1.3 million grant from EGLE's Clean Water State Revolving Fund program with 100% loan forgiveness.

Operation Medicine Cabinet (OMC) Program

There are currently 36 drop-off sites throughout Oakland County where unused pharmaceuticals can be properly disposed of. Locations include local Departments of Public Safety, 13 Oakland County Sheriff's offices and 23 additional law enforcement locations throughout Oakland County within the following communities: Addison Twp, Auburn Hills, Beverly Hills Village, Brandon Twp, Birmingham, Bloomfield

Hills, Bloomfield Twp, Clawson, Commerce Twp, Farmington Hills, Ferndale, Franklin, Hazel Park, Highland Twp, Holly, Huntington Woods, Independence Twp, Keego Harbor, Lyon Twp, Madison Heights, Oakland Twp, Oak Park, Orchard Lake, Orion Twp, Oxford Twp, Village of Oxford, Pontiac, Rochester, Rochester Hills, Royal Oak, South Lyon, Springfield Twp, Troy, West Bloomfield, White Lake and Wixom. Additional information can be found online [here](#).

New in FY 2017, a GIS-based online application is available for the public to see drop-off sites throughout the county and is available [here](#).

There were a total of 1,613 hits to the OMC website in FY 2022 and 1,232 hits in FY 2023.

Stormwater Utility Legislation

Since 2014, the WRC has continued to lead a workgroup of stakeholders to develop language for a bill that would help clarify how communities can establish dedicated funding sources for managing their stormwater systems. On November 9, 2023, Senator Rosemary Bayer introduced SB-660'23, a bill to enact new law known as the "Stormwater Management Utility Act". Although similar legislation has been introduced in Lansing many times over the past several years, this refined bill is gaining regional and statewide support with enough momentum to be addressed by the full Legislature in calendar year 2024. The WRC continues to monitor court cases that are trending in manner favorable to support the passage of a stormwater management utility bill. Since FY 2021, the WRC hosted a regional community forum to review material revisions to prior draft bills, educate community leaders, and solicit feedback from a cross-section of professionals to ensure all aspects of creating and maintaining a stormwater management utility are considered and incorporated into the new proposed law.

Oakland County Street Tree Enhancement Match Grant Program (OAKSTEM)

In FY 2021, the Oakland County Street Tree Enhancement Match Grant Program (OAKSTEM) was started as a pilot program by Oakland County Planning & Local Business Development to decrease impervious surface area and increase the tree canopy in communities that make up the George W. Kuhn (GWK) Drainage District. In FY 2022, 11 of the 12 communities who submitted applications to the program completed street tree planting projects. In total, 1,260 trees were planted in public right-of-ways within the District. In FY 2023, 89 trees were planted.

Preserve Mi Waters: Stormwater Manhole Cover Art Contest

In FY 2022, the WRC coordinated a contest to highlight the importance of awareness that stormwater runoff enters our lakes, streams and rivers without treatment. The initiative was meant to highlight the importance of protecting our waterways from pollution from nonpoint sources. The winner was Troy Athens high school student, Mandy Chu. The contest received a total of 74 entries. Mandy received a \$1,000 scholarship in honor of her achievement from Pure Oakland Water. Details on the initiative were shared in an Oakland County Blog post on April 21, 2022 and is available online at: <https://oaklandcountyblog.com/2022/04/21/oakland-county-spreads-awareness-around-stormwater/#more-51100>.

In FY 2023, CDM staff installed 48 cast iron storm drains covers featuring Mandy's artwork in walkable locations throughout Oakland County. The covers were installed in the following communities: Rochester Hills (2), Auburn Hills (1), Bloomfield Hills (1), Bloomfield Twp (2), Wixom (2), Walled Lake (2), Farmington Hills (6), Highland Twp (1), Holly (2), Independence Twp (1), South Lyon (1), Lyon Twp (1), Oakland Twp (3), Orion Twp (1), Northville (1), Pontiac (5), Madison Heights (4), Beverly Hills (1), Lathrup Village (1), Southfield (1), Troy (4), Waterford (2) and West Bloomfield (3).



Oakland County Sustainability Plan

In FY 2021, Oakland County hired its first Environmental Sustainability Officer. The County has prepared a Sustainability Plan that addresses five focus areas: Sustainable Governance, Health & Wellness, Facility and Fleet Decarbonization, High-Performance Buildings, Waste Reduction and Diversion, and Open Space, Ecosystems and Connectivity. More information about Oakland County's Sustainability Plan and initiatives are available online [here](#). An interactive storymap of the County's sustainability plan is available at: <https://storymaps.arcgis.com/stories/b4a34afb87714feda4ce2bafabad2a47/>.

Wildlife Habitats of Oakland (WHO) Certification

Wildlife Habitats of Oakland (WHO) is a collaborative effort among leading conservation groups, county government and nonprofit agencies in Oakland County. WHO is working in conjunction with the National Wildlife Federation to accomplish the following goals:

- Create a network of wildlife-friendly habitats in residential yards, businesses, parks, trails and other publicly owned lands
- Raise awareness about the importance of pollinators and other indicator species
- Recognize the significant role that native plants have in fostering a healthy environment
- Certify all of Oakland County as a National Wildlife Federation Community Wildlife Habitat

More information is available on the WHO [website](#).

WRC Storm Drain and Sanitary Sewer Projects Under Development, Under Construction and Recently Completed

A summary report of WRC drain, sanitary sewer, drinking water systems, and retention treatment basin projects under design, under construction and completed is available [here](#) for FY 2022. The FY 2023 report will be available on the WRC's website in the near future [here](#) under the "WRC Annual Drain Projects Report" section.

Public Education Program Highlights

Art-Fish-Fun Festival

The WRC, in partnership with The Art Experience in Pontiac, Pure Oakland Water, the City of Pontiac and the Clinton River Watershed Council, has hosted the annual Art-Fish-Fun Festival in Beaudette Park in Pontiac in June of each year. The event is aimed to educate and engage the public in environmental education in a fun-filled way.

In FY 2022, the event saw approximately 250 attendees; in FY 2023, the event saw about 400 attendees. The 2023 event also included a park clean-up with 18 volunteers that helped to remove 18 bags of garbage from the park (approximately 1.08 cubic yards).

Clinton River Water Festival

In FY 2022, the 16th annual festival was held on May 20, 2022 at Oakland University in Rochester Hills. A total of 36 classes from 16 schools attended – a total of nearly 800 students and 153 teachers and chaperones were educated about the importance of water in their daily lives in the Clinton River watershed. A total of 37 different stations were visited by the classes represented by a variety of public and private water resource professional organizations. A video featuring highlights of the 2022 event is available [here](#).

In FY 2023, the 17th annual festival was held on May 19, 2023 at Oakland University. A total of 40 classes from 16 schools attended – reaching a total of just over 900 students and 169 teachers and chaperones. A total of 40 different stations were visited by the classes represented by a variety of public and private water resource professional organizations. A video featuring highlights of the 2023 event is available [here](#).

Planning partners for the annual Clinton River Water Festival include the WRC, City of Auburn Hills, Clinton River Watershed Council, Cranbrook Institute of Science, and Oakland University's department of Pre-College Programs with sponsorship funding provided by Pure Oakland Water and WM.

Contractor Training Related to Stormwater Management Activities

In FY 2013, the WRC added stormwater pollution prevention language to the "Notes" section on its soil erosion and sedimentation control details sheet (available online [here](#)) as part of the WRC's Soil Erosion and Sedimentation Control Program to address the contractor training requirements of the Phase II Stormwater permit. The stormwater pollution prevention language states:

"While performing work involving grounds maintenance and/or the construction/maintenance of any infrastructure, including roads, water mains, sanitary sewers, storm drains and stormwater best management practices (BMPs), contractors shall minimize pollution from stormwater runoff that can affect water quality related to work activities. Pollutants that could impair water quality may include fuel, grease and oil, nutrients, bacteria and pathogens, litter and debris, and soil erosion and sedimentation. Applicable BMPs shall be implemented by the contractor to the maximum extent practicable to protect water quality and wildlife habitat."

For those communities that utilize WRC to administer its SESC program (which includes 21 cities, 18 townships and nine villages in Oakland County – see map of community coverage [here](#)), you would be covered by WRC's SESC program for these requirements.

Kids' Clean Water Calendar Contest

The WRC received more than 1,300 entries from fourth and fifth grade students throughout Oakland County for the 2022 and 2023 Calendar Contests. Winning entries were included in 11,000 calendars that were distributed to homeowners, municipalities, businesses and schools throughout Oakland County and beyond.

A new [website](#) was developed with details on the contest and an online gallery of the 2022 and 2023 calendar winning entries is accessible from the website. In FY 2022, the website received 1,689 hits and 1,508 hits in FY 2023.



Oakland County Dirt Doctors Program

The Dirt Doctors program is designed to teach children how individual actions affect our waterways. It explains the connections between vegetation, soil erosion and water quality in a fun-filled, interactive way. During FY 2022/2023, the WRC Dirt Doctors educated more than 6,000 students, adults and teachers through nearly 1,000 presentations at 26 events located in Ann Arbor, Bloomfield Hills, Detroit, Farmington, Macomb, Pontiac, Rochester Hills, Royal Oak, Walled Lake and West Bloomfield.

A pre-recorded version of the Dirt Doctors program was developed in September 2020 and is available online [here](#). As of September 30, 2023, the video has been viewed 221 times.

Oakland County Drain Detectives Program

The Drain Detectives program is designed to teach children about watersheds, the various types of pollution that can impact water quality and the tools that are used to detect pollution and the methods used to track down pollution sources. In FY 2023, the program reached approximately 208 fourth and fifth grade students through 8 presentations at the Detroit River Water Festival on Belle Isle in Detroit.

Oakland County Environmental/Natural Resource-Related Web Sites

The WRC continues to enhance and maintain its website: www.oakgov.com/water with county residents in mind. A separate e-mail address is used for handling environmental questions, requests for services and materials at: envreq@oakgov.com. The WRC also maintains a website on riparian education information at www.oakgov.com/riparian (713 hits to the website in FY 2022 and 832 hits in FY 2023). The County's 24-Hour Pollution Hotline is available [here](#) (745 hits to the website in FY 2022 and 464 hits in FY 2023). WRC also has a main page to its Environmental Education resources [here](#) and that site had 246 hits in FY 2022 and 188 hits in FY 2023.

In FY 2018, Oakland County Information Technology developed a Seven Simple Steps to Clean Water Story Map and that is available [here](#); a link to the Story Map is on WRC's "Seven Simple Steps to Clean

Water" website [here](#). The page also promotes the 24-Hour Pollution Hotline and viewers can explore land use changes from 1940 vs. 2017 imagery within Oakland County. There were 280 hits to the Seven Simple Steps to Clean Water website in FY 2022 and 184 hits in FY 2023. The Storymap received 129 hits in FY 2022 and 100 hits in FY 2023. In FY 2021, WRC developed a "Find Your Watershed" feature available in ARC GIS and is accessible [here](#).

The Oakland County Planning and Economic Development department continues to host and update the Oakland County Environmental Stewardship [website](#). There were 700 hits to this website in FY 2022 and 606 hits in FY 2023.

The Oakland County Parks and Recreation Commission also hosts a comprehensive [website](#) which features a calendar of events, stewardship opportunities, links to countywide parks and trails and other natural resource-related information for Oakland County. There were 746 hits to this website in FY 2022 and 992 hits in FY 2023. OC Parks' trail network site [here](#) had 6,395 hits in FY 2022 and 2,996 hits in FY 2023.

Oakland County Enviroscope™ Watershed Model Program

The WRC *Enviroscope™* Watershed Model program teaches students about watersheds and how individual actions affect our waterways, as well as how pollution moves throughout a watershed. Students are taught how to prevent pollution through everyday actions. A pre-recorded version of the Watershed Model program was developed in September 2020 and is available online [here](#). As of September 30, 2023, it had 448 views. The video was shared on the WRC's Facebook page [here](#). The video was also featured on the Enviroscope watershed model developer's YouTube "Favorites" channel [here](#).

During FY 2022, approximately 34 students, teachers and Girl Scout leaders in two (2) different presentations at two (2) different events in Novi and Oxford were reached with in-person instruction. In addition, the Rouge River Water Festival was held virtually for 47 classrooms and 1,062 students and the virtual Watershed Model Demonstration link was shared with teachers.

In FY 2023, the program reached more than 1,064 students, teachers and parents in more than 118 presentations at four different events in Bloomfield Hills, Rochester Hills and Walled Lake.

Lakefront Lifestyles Magazine Advertisements and Articles

Lakefront Lifestyles magazine is published monthly and reaches approximately 15,600 homeowners on any of 226 lakes within the west and central areas of Oakland County annually. Public education messages were placed in the April to September issues of *Lakefront Lifestyles* magazine in FY 2022 and 2023. The messages included pet care, fertilizers, household hazardous waste disposal, earth-friendly landscaping, septic system maintenance and storm drain awareness.

One Water Education Campaign

In a partnership between SEMCOG, the Great Lakes Water Authority and the Cranbrook Institute of Science, a regional public education campaign was unveiled in FY 2019 called "One Water". The goal of the campaign is to bring greater awareness of the connection between our drinking water, wastewater

and stormwater systems and how it is all "One Water" and a resource that must be cared for with a shared responsibility. The tools of that campaign include: educational videos, Public Service Announcements on television and radio, billboard advertisements, tip cards, a blog series (one article on each topic of stormwater, wastewater and drinking water), an online resource center and giveaways including FOG disposal bags, reusable water bottles and pet waste baggies. The resource materials are available online at: mionewater.com. A report on the reach of the 2023 MiOneWater campaign is available online [here](#).

Commissioner Nash was featured in a One Water video highlighting programs and best practices in Oakland County and is available online [here](#). As of September 30, 2023, the video has received 398 views.

Master Rain Gardener Certification Program

The Master Rain Gardener Certification program was instituted by Washtenaw County many years ago in an effort to educate homeowners on how to build rain gardens to manage stormwater runoff, improve water quality and create wildlife habitat. Beginning in FY 2022, a collaboration including representatives from local watershed groups, including the Clinton River Watershed Council, Huron River Watershed Council, Friends of the Rouge, Friends of the Detroit River, and Raisin River Watershed Council, as well as the Huron-Clinton Metroparks and Oakland County WRC, joined in Washtenaw County's effort to bring the program to the Southeast Michigan region. The program is taught virtually with optional in-person tours of local rain garden installations.

In FY 2022, the program was held from March 3 – April 7, 2022 with 82 participants from the following watersheds: Rouge: 29; Huron: 18; Clinton: 10; Raisin: 2; Detroit: 6; Other: 17. Nineteen (19) of the participants resided in Oakland County.

In FY 2023, the program was held virtually from Feb. 23 - March 23, 2023 with 70 participants from the following watersheds: Rouge: 16; Huron: 24; Clinton: 9; Raisin: 3; Detroit: 9; Other: 9. Thirteen (13) of the participants resided in Oakland County.



A GIS-based mapping application created by Washtenaw County where those who have installed rain gardens and other types of green infrastructure (rain barrels, native plantings, etc.) in Southeast Michigan are encouraged to map their projects is available [here](#).

More information about the program can be found online at: www.MasterRainGardener.org.

Onsite Sewage Disposal (Septic System) Maintenance Education

The WRC published an ad on proper septic system maintenance in the *Oakland Lakefront Lifestyles* magazine in its September 2022 issue which reaches 15,600 riparian homeowners annually. Proper septic system operation and maintenance education is also provided in the [Waterfront Wisdom booklet](#).

Additionally, the Oakland County Health Department offers a septic system installer education class that instructs on the Oakland County Sanitary Code and policies related to onsite wastewater treatment systems. The class is open to contractors wishing to complete installations in Oakland County as well as

private homeowners wishing to install their own septic system. There were 11 classes with 70 attendees in FY 2022 and 11 classes with 54 attendees in FY 2023.

MSU-Extension has a website on Septic System Education available [here](#).

Regional Stormwater Summit

The 8th annual Regional Stormwater Summit was held virtually on October 9, 2021. Speakers included representatives from WRC, SEMCOG, OHM Advisors, Drummond Carpenter, the City of Royal Oak, EGLE and the City of Grand Rapids.

The 9th annual Summit was held on October 21, 2022 at Lawrence Technological University with approximately 170 people in attendance. The event is held in partnership with LTU, Pure Oakland Water and the WRC. The Summit's purpose is to bring together regional stakeholders to learn more about and share ideas on the latest and greatest information related to stormwater management. All of the presentations and taped video of the event are available on the Pure Oakland Water website [here](#).

Riparian Education

In June 2008, the WRC completed the development of riparian education materials entitled, "[Waterfront Wisdom-Healthy Habits for Clean Water](#)." The materials consist of a comprehensive booklet, as well as individual pamphlets on each of the seven "Healthy Habits for Clean Water." These materials can be viewed and downloaded at: www.oakgov.com/riparian. As of September 30, 2023, more than 17,000 booklets have been distributed throughout southeast Michigan. There are still copies available free of charge upon request.

Rouge River Water Festival

In FY 2022, the festival was held both virtually and in person. The virtual session was held on October 12-15, 2021. A total of 1,062 students and 4 teachers participated. WRC, OCPRC and MSU-Extension Oakland County provided virtual programming to virtual attendees. MSU-Extension provided a video of their groundwater model (located [here](#)). WRC provided a link to its virtual Dirt Doctors and Enviroscape Watershed Model programs.

The festival was held in person from Sept. 13-16, 2022 at the Cranbrook Institute of Science. Approximately 1,142 students from 40 classes and 17 different schools in 10 different communities attended (Beverly Hills, Bingham Farms, Birmingham, Bloomfield Hills, Bloomfield Twp, Commerce, Farmington Hills, Southfield, Troy and Walled Lake). Twenty-eight (28) organizations presented during this year's Water Festival.

In FY 2023, the festival was held from Sept. 19-22, 2023 at the Cranbrook Institute of Science. Approximately 1,135 students from 49 classes and 20 different schools in 10 different communities attended (Bingham Farms, Birmingham, Bloomfield Hills, Bloomfield Twp, Commerce, Farmington Hills, Novi, Plymouth, Troy and Walled Lake). Twenty-eight (28) organizations presented during this year's Water Festival.

Water by the Quarter Program

Water Resources Commissioner, Jim Nash, hosts an online program produced by CMNtv that airs quarterly featuring environmental and water resource professionals that are interviewed about a variety of topics in an effort to increase the public's awareness and understanding on a host of topics related to our natural environment. During FY 2022 and 2023, there were five (5) programs with a total of 451 views. A link to the online program and archived interviews can be accessed [here](#).

Illicit Discharge Elimination Program (IDEP) Summary

Oakland County 24-Hour Pollution Hotline

The WRC continues to staff the 24-hour Pollution Hotline (248-858-0931) where residents, municipalities and others can call to report surface water pollution in Oakland County.

Oakland County created this Pollution Hotline to address Phase II Stormwater Permit requirements and because individuals and municipalities wanting to report surface water pollution often were unclear about how to do so. This Hotline provides a clearinghouse for surface water pollution complaints resulting in consistent 24-hour response, or referral. Complaints are logged in a database and referred to the appropriate agency for action.

Oakland County received 53 complaints throughout 26 communities in FY 2022 and 2023. Investigation of these complaints resulted in the identification of 31 illicit discharge sources and elimination of 30 of those sources. An illicit discharge is pollution draining to surface water or the dumping of polluting material that can impact surface water.

The Oakland County Health Dept. acted on 53 septic-related customer complaints in FY 2022 and 86 septic-related complaints in FY 2023. The Health Department also completed 461 septic system failure evaluations in FY 2022 and 441 failure evaluations in FY 2023.

A detailed summary of WRC complaint investigations is provided in **Tables 1 and 2** at the end of this document.

Outfall/Discharge Point Surveys and Illicit Discharge Investigations

WRC continues to conduct stormwater outfall/discharge point surveys, stormwater structure inspections and follow-up investigations to locate and eliminate pollution from our waterways. An outfall/discharge point survey consists of GPS point location and illicit discharge screening, which includes visual inspection and sampling.

In FY 2022, WRC performed 5,140 inspections on structures located along 109 County Drains in 29 communities within the Clinton, Flint, Huron, Rouge and Shiawassee River watersheds. A total of eight (8) drains were identified with suspect discharges. All 8 drains were investigated and one (1) illicit discharge was discovered. The source of this discharge was found to be an illicit sanitary lead connection to the Owens Relief Drain in Southfield (Rouge River watershed) and correction is pending. This drain

will continue to be investigated for additional non-point sources. The other suspect drains will also continue to be investigated into FY 2023.

In FY 2023, WRC performed 5,173 inspections on structures located along 116 County Drains in 27 communities in the Clinton, Flint, Huron, Rouge and Shiawassee River watersheds. A total of 19 drains were identified with suspect discharges. All 19 drains were investigated and two (2) illicit discharges were discovered. The source of the first discharge was found to be an illicit sanitary lead connection to the Austin Drain in Southfield (Rouge River watershed) that was corrected in FY 2023. The other misconnected residential sanitary lead to the Owens Relief Drain in Southfield still has not been corrected because the homeowner sold the house in 2023 and it is currently sitting vacant. Upon future purchase, the City of Southfield will ensure the illicit connection is fixed before a Certificate of Occupancy is issued. The other suspect drains will also continue to be investigated into FY 2024.

A detailed summary of dry weather screening and IDEP investigations is provided in **Tables 3 and 4** at the end of this document.

Illicit Connection and Discharge Elimination

In summary, during FY 2022/2023, 34 illicit discharges were discovered by WRC during complaint investigations, outfall/discharge point surveys, stormwater structure inspections and follow-up investigations. Of these, a total of 33 illicit discharges were corrected with the identified sources being eliminated. The remaining illicit discharge source has been identified and was referred to EGLE for follow-up enforcement (horse farm runoff).

Pollutant Removal Summary for FY 2022 and 2023

The following pollutants were removed through the County's IDEP in FY 2022 and FY 2023:

- 9,234,113 gallons of sewage
- 3,620 gallons of fuel, oil and grease
- 116,480 pounds of sediment
- 255 gallons of hydraulic fluid
- 50 pounds of pet waste
- 50 gallons of chromium
- 20 gallons of algaecide

A detailed summary of pollutants removed for each watershed is provided in **Tables 5 and 6** at the end of this document.

TABLE 1

FY 2022 Pollution Hotline Complaint Summary Table

Community	Number of Complaints	Illicit Discharges	Illicit Discharges Corrected	Complaint - Pollutant - Source of Discharge
Auburn Hills	1	1	1	(1) Spill - Gasoline - Fuel Tanker Accident
Beverly Hills	1	0	0	Stream Discoloration
Bloomfield Hills	1	1	1	(2) Illicit Connection - Sewage - Municipal Complex
Clarkston	1	0	0	Soil Erosion - Commercial Construction Site
Farmington Hills	1	1	1	(3) Diesel Fuel in County Drain - Gas Station LUST
Franklin Village	1	1	1	(4) Soil Erosion - Sediment - Residential Construction Project
Holly Village	2	1	1	(5) Soil Erosion - Sediment - Subdivision Development; Trash Complaint - Residential
Independence Twp	1	0	0	Suspect Pipe Discharge to Lake - Residential Property
Lyon Twp	1	0	0	Illicit Discharge - Concrete Washout - Residential Contactor
Oakland Twp	1	0	0	Soil Erosion - Sediment - Residential Construction site
Pontiac	3	3	3	(6), (7) Spill - Hydraulic Fluid - Industrial Facility - local storm and pond impacted; (8) Illicit Discharge - Sewage to Ground and Storm CB at Condominium Complex
Rochester Hills	1	0	0	Drain Discoloration - SESC - Road Ditch Cleanout
W. Bloomfield	2	2	2	(9) Oil Sheen - Lower Straits Lake Dam - Unknown Source; (10) Spill - Hydraulic Fluid, Residential Garbage Truck
Waterford	1	1	1	(11) Spill - Hydraulic Fluid, Garbage Truck at County Complex
Totals: 14 Communities	18	11	11	

- (1) Auburn Hills FD and MDOT Emergency Response and Cleanup
 (2) Illicit Connection, misconnected sanitary sewer at Bloomfield Twp DPS Building. Facility dye tested by Bloomfield Twp in 2021. Corrected by WRC in 2022
 (3) Diesel fuel discharge to Pebble Creek from a local Storm Drain. Source is ongoing; Gas Station LUST remediation site with EGLE
 (4), (5) EGLE SESC Site Violations and Enforcement Actions issued.
 (6), (7) Industrial Hydraulic Fluid Spill from Holding Tank cleaned up by facility. Impacted local storm drain, pond and wetland. Under remediation with EGLE
 (8) Violation Notices issued to building owner by OCHD and City of Pontiac Bldg Dept. in 2021. Corrected in 2022.
 (9) WRC collected and disposed of misting oil at Upper Straits Lake Dam. No upstream sources were found
 (10), (11) Hydraulic Fluid Leak from garbage collection truck cleaned up by waste hauling contractors

TABLE 2

FY 2023 Pollution Hotline Complaint Summary Table

Community	Number of Complaints	Illicit Discharges	Illicit Discharges Corrected	Complaint - Pollutant - Source of Discharge
Addison Twp	1	1	0	(1) Horse Farm Animal Waste Runoff
Auburn Hills	1	1	1	(2) Commercial Detention Pond Discharge
Bloomfield Twp	3	1	1	Construction Site SESC; Sewage Odor, Residential
Commerce Twp	1	1	1	(3) Mismatched Sanitary House Lead
Farmington Hills	2	2	2	(4) Canal Dredging Residential
Franklin Village	1	0	0	(5) Turpentine Spill - Residential, (6) Trailer Park - unit broken sanitary
Madison Heights	4	4	4	Sanitary MH Surcharge
Oxford Twp	1	0	0	(7), (8) 2 Sanitary Interceptor Overflow events; (9) Nickel Waste Spill - Industrial; (10) Oil Spill - Commercial Property
Pontiac	7	4	4	Road Tar Coal Patch
South Lyon	1	0	0	(11) Oil Spill - Industrial Facility; Sodium Hypochlorite Spill-WWTF; Plugged residential Storm Drain; Stream Discoloration - Clinton River; (12), (13), (14) 3 SSO events - Pontiac WWTF
Southfield	2	0	0	Phragmites chemical treatment concern
Troy	1	1	1	2 Odor Complaints - Sanitary Interceptor, Commercial Facility
Millford Village	1	0	0	(15) Granite Cutting Slurry Waste Discharge - Commercial Facility
W. Bloomfield	2	2	2	Sanitary Sewer Complaint
Warren	4	2	2	(16) Algaecide - Residential Detention Pond; (17) SSO to Residential Detention Pond
Waterford Twp	1	0	0	Oil Spills - (18) Red Run, (19) Schoenherr Drain; 2
White Lake Twp	2	1	1	Discoloration Complaints - Red Run
Totals: 18 Communities	35	20	19	Discoloration Complaint - Clinton River
				(20) Gasoline Spill - Gas Station

(1) Horse farm runoff referred to EGLE for enforcement

(2) Retention pond for Tech Park / landfill site discharged to wetland and tributary. Permit violation and enforcement action issued by EGLE

(3) Mismatched residential sanitary house lead. Corrected by homeowner. Permit issued by WRC / Bloomfield Twp

(4) Residential construction project involving canal crossing- SESC permit and enforcement action by Commerce Twp & EGLE

(5) Turpentine spill from local storm drain, responded to by local FD, investigated by EGLE & Farmington Hills. No source found.

(6) Sewage discharge to ground and storm at MHP trailer unit. Repaired by Facility Management, OCHD and Farmington Hills enforcement action.

(7), (8) Sanitary interceptor sewer surcharge and overflow to GWK and Red Run Drains from heavy rain events. Reported to EGLE.

(9) Nickel waste drum spill to parking lot storm. Responded to by Mason Hts. FD & DPW. Contained and cleaned up by facility contractor.

(10) Oil spill to Red Run. Collected and disposed of by WRC / MPC. Source was food processing company waste oil dumped to storm CB. Referred to Madison Heights for Code Enforcement

(11) Oil spill at Heat Treating Facility to Road and County Drains. Spill response, containment cleanup up by WRC, MDOT and facility contractor, Reported to EGLE

(12), (13), (14) Sanitary Sewer Overflow events at the Pontiac WWTF due to heavy rains. Reported to EGLE

(15) Illicit connection discharge of waste water from a Granite Table Top processing facility. Referred to City of Troy Bldg Dept. Corrected by facility owner

(16) Discharge of algal treatment additive in overflow from sub-division Pond. Referred to W. Bloomfield & EGLE Aquatic Nuisance Control Program for permit enforcement with HOA

(17) Sewage discharge from plugged sanitary sewer to residential detention pond. Corrected and cleaned up by WRC. Reported to EGLE

(18), (19) Oil Spills from Henry Graham and Schoenherr Drains to the Red Run. Contained and disposed of by WRC and MCDPW contractors. Reported to EGLE. Sources not found

(20) Fuel Spill at Gas station to Storm CB. White Lake FD, MDO, EGLE Response. Spill contained and cleaned up facility contractor.

TABLE 3

FY 2022 Dry Weather Screening and IDEP Investigations Summary Table

WRC Drain Name	Stormwater Structure DWS Inspections	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
A J Taylor Drain (1)	38	Brandon Township	Clinton	No	No	0	0	
Allen Drain (1)	29	Independence Township	Clinton	No	No	0	0	
Austin Drain (3)	15	Southfield	Rouge	Yes	Yes	0	0	Ongoing Investigation
Bare Drain (1)	14	Holly Township	Clinton	No	No	0	0	
Bishop Drain (1)	17	Rochester Hills	Clinton	No	No	0	0	
Bloomfield Highlands Drain (1) (2)	14	Bloomfield Township	Rouge	No	No	0	0	
Bloomfield Pines Drain (1)	138	West Bloomfield	Rouge	No	No	0	0	
Borden Drain (1)	12	Rochester Hills	Clinton	No	No	0	0	
Brandon Oxford Drain (1)	79	Brandon Township	Clinton	No	No	0	0	
Brown Drain (1)	44	Orion Township	Clinton	No	No	0	0	
Caddell Drain (1) (2)	135	Farmington Hills	Rouge	No	No	0	0	
Claude H Stevens Drain (2) (3)	4	Bloomfield Township	Rouge	Yes	Yes	0	0	Ongoing Investigation
Clarenceville Drain (2)	1	Farmington Hills	Rouge	No	No	0	0	
Chamberlin Farms Drain (1)	8	Oakland Township	Clinton	No	No	0	0	
Chelsea Park Drain (1)	405	Oakland Township	Clinton	No	No	0	0	
Courter Drain (1)	16	Novi	Rouge	No	No	0	0	
Daly Drain (1)	25	Bloomfield Township	Rouge	No	No	0	0	
Davis Drain (1) (2)	24	Novi	Rouge	No	No	0	0	
Devonshire Drain (2)	1	Bloomfield Township	Rouge	No	No	0	0	
Dorothy Webb Drain (1)	38	West Bloomfield	Rouge	No	No	0	0	
Drakeshire Condo Drain	12	West Bloomfield	Rouge	No	No	0	0	
Dunleavy Drain (3)	2	Madison Heights	Clinton	No	No	0	0	Ongoing Investigation
Eight Mile Drain (2)	2	Southfield	Rouge	Yes	Yes	0	0	
Emily Drain (1)	31	Southfield	Rouge	No	No	0	0	
Flannery Drain (3)	1	Southfield	Rouge	Yes	Yes	0	0	Ongoing Investigation
Fracassi Drain (3)	5	Southfield	Rouge	Yes	Yes	0	0	Ongoing Investigation
Frost Drain (1)	6	Oakland Township	Clinton	No	No	0	0	
Four Towns Drain (1)	22	Waterford	Clinton	No	No	0	0	
Gabler Drain (1)	1	Rochester Hills	Clinton	No	No	0	0	
Galloway Drain (1)	1	Auburn Hills	Clinton	No	No	0	0	
Galloway Lake Farms Drain (1)	39	Auburn Hills	Clinton	No	No	0	0	
Gosling Drain (1)	1	Oakland Township	Clinton	No	No	0	0	
Greenaway Drain (1)	17	Wolverine Lake Village	Huron	No	No	0	0	
Greenpointe Condo County Drain (1)	93	West Bloomfield	Huron	No	No	0	0	
Greenpointe North Drain (1)	88	West Bloomfield	Huron	No	No	0	0	
Hayes Drain (1)	1	Commerce Township	Huron	No	No	0	0	
Henry Graham Drain (1) (3)	11	Madison Heights	Clinton	Yes	Yes	0	0	Ongoing Investigation
Hawthorne Drain (1)	12	Troy	Clinton	No	No	0	0	
Hills of Oakland Drain (1)	144	Oakland Township	Clinton	No	No	0	0	
Holden Drain (1)	10	Commerce Township	Huron	No	No	0	0	
Holland Drain (1)	66	Pontiac	Clinton	No	No	0	0	
Honeywell Drain (1)	7	Rochester Hills	Clinton	No	No	0	0	
Huntwood Meadows Drain (1)	92	West Bloomfield	Rouge	No	No	0	0	
Jackson Drain (1)	1	Troy	Clinton	No	No	0	0	
Jacobs Drain (1)	22	West Bloomfield	Rouge	No	No	0	0	
Johnson Drain (1)	52	Auburn Hills	Clinton	No	No	0	0	
Joslyn Drain (1)	13	Pontiac	Clinton	No	No	0	0	
Kasper Drain (1)	178	Auburn Hills	Clinton	No	No	0	0	
Kings Ridge Drain (1)	93	Oakland Township	Clinton	No	No	0	0	
Knollwood Commons Drain (1)	85	Oakland Township	Clinton	No	No	0	0	
Kaczmar Drain (2)	1	Madison Heights	Clinton	No	No	0	0	
Kollar Drain (1)	23	West Bloomfield	Rouge	No	No	0	0	
Korozon Drain (1)	43	Bloomfield Township	Rouge	No	No	0	0	
Krohn Drain (1)	40	Addison Township	Flint	No	No	0	0	
Kutchey Drain (3)	5	Hazel Park	Clinton	No	No	0	0	Ongoing Investigation
Lagoons of W. Bloomfield Drain (1)	95	West Bloomfield	Huron	No	No	0	0	
Lueders Drain (1)	6	Rochester Hills	Clinton	No	No	0	0	
Lochaven Drain (1)	5	Waterford Township	Clinton	No	No	0	0	
Lynn D. Allen Drain (1)	10	Bloomfield Township	Rouge	No	No	0	0	
Maple Place Condo Drain (1)	29	West Bloomfield	Rouge	No	No	0	0	
Maple Ridge Condo Drain (1)	29	West Bloomfield	Rouge	No	No	0	0	
Maple Place Villas Drain (1)	171	West Bloomfield	Rouge	No	No	0	0	
Maple Place Woods Drain (1)	36	West Bloomfield	Rouge	No	No	0	0	
Maplewoods North Subdivision Drain (1)	81	West Bloomfield	Rouge	No	No	0	0	
McIntyre Drain (1)	26	Rochester Hills	Clinton	No	No	0	0	
Minnow Pond Drain (1) (2)	46	Farmington Hills	Rouge	No	No	0	0	
Montante Drain (1) (2)	22	West Bloomfield	Huron	No	No	0	0	
Moore Drain (1)	20	Pontiac	Clinton	No	No	0	0	
Mullen Drain (1)	56	West Bloomfield	Rouge	No	No	0	0	
Norton Creek Drain (2)	1	Wixom	Huron	No	No	0	0	
Northwestern Hwy Drain (2)	1	Southfield	Rouge	No	No	0	0	
Oak Brooke Condo Drain (1)	29	West Bloomfield	Huron	No	No	0	0	
Orchard Lake Woods Drain (1)	156	West Bloomfield	Huron	No	No	0	0	
Orchard Ridge Drain (1)	101	Oakland Township	Clinton	No	No	0	0	
Osgood Drain (1)	9	Orion Township	Clinton	No	No	0	0	
Owens Relief Drain (1) (3)	103	Southfield	Rouge	Yes	Yes	1	0	Residential Sanitary Illicit Connection found in FY2022; Ongoing Investigation of Additional Non-Point Sources
Paddison Drain (1)	29	Groveland Township	Flint	No	No	0	0	
Paint Creek Drain (1)	177	Orion Township	Clinton	No	No	0	0	
Perrytown Estates Drain (1)	21	West Bloomfield	Rouge	No	No	0	0	
Pontiac Creek Ext Drain (1)	48	Waterford	Clinton	No	No	0	0	
Quail Ridge Drain (1)	5	Novi	Rouge	No	No	0	0	
Randolph St. Drain (1)	49	Northville	Rouge	No	No	0	0	
Reid and Branch Drain (1)	40	Orion Township	Clinton	No	No	0	0	
Renshaw Drain (1)	11	Troy	Clinton	No	No	0	0	
Royal View Drain (1)	27	Oakland Township	Clinton	No	No	0	0	
Schmid Drain (1)	30	Keego Harbor	Clinton	No	No	0	0	
Sharkey Drain (3)	5	Madison Heights	Clinton	Yes	Yes	0	0	Ongoing Investigation
Silvercrest Drain (1)	21	Waterford Township	Clinton	No	No	0	0	
Skae Drain (1)	13	Pontiac	Clinton	No	No	0	0	
Stewart Relief Drain (1)	57	Southfield	Rouge	No	No	0	0	
Sturgis Drain (1)	31	Troy	Clinton	No	No	0	0	
Swartz Creek Drain (1)	8	Holly Township	Flint	No	No	0	0	
Swartz Creek No 2 Drain (1)	4	Holly Township	Flint	No	No	0	0	
The Crossings Drain (1)	422	Oakland Township	Clinton	No	No	0	0	
Tiffany Smith Drain (1)	15	Holly Township	Shiawassee	No	No	0	0	
Tribute Drain (1) (2)	68	Wixom	Huron	No	No	0	0	
Twin Lakes Drain (1)	250	Oakland Township	Clinton	No	No	0	0	
Underhill Drain (2)	1	South Lyon	Huron	No	No	0	0	
US 16 Drain (3)	7	Farmington	Rouge	Yes	Yes	0	0	Ongoing Investigation
Vinewood Drain (1)	51	Auburn Hills	Clinton	No	No	0	0	
W. Bloomfield Oaks Drain (1)	142	West Bloomfield	Huron	No	No	0	0	
Walnut Hill of W Bloomfield Drain	20	West Bloomfield	Huron	No	No	0	0	
Wellington Drain (1)	95	Oakland Township	Clinton	No	No	0	0	

WRC Drain Name	Stormwater Structure DWS Inspections	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Wellington Woods Drain (1)	49	West Bloomfield	Clinton	No	No	0	0	
Westwood Park Drain (1)	8	West Bloomfield	Huron	No	No	0	0	
White and Duck Lake Drain (1)	15	Highland Township	Huron	No	No	0	0	
Windridge Hills Drain (1)	49	West Bloomfield	Huron	No	No	0	0	
Woolman Wells Drain (1)	46	Brandon	Flint	No	No	0	0	
Yerkes Drain (1) (2)	17	Lyon Township	Huron	No	No	0	0	
Drains	DWS Inspections	Communities	Watersheds	Suspect Drains	Drains Investigated	Illicit Discharges Discovered	Illicit Discharges Corrected	
109	5140	29	5	8	8	1	0	

(1) DWS Stormwater Structure Inspections conducted during FY 2022

(2) IDEP Investigations, WW-DW E. coli, DNA sampling conducted during FY 2022. No additional investigation planned for FY 2023

(3) IDEP Investigations, WW-DW E. coli, DNA sampling conducted during FY 2022. Ongoing evaluation, investigations planned for FY2023

DWS = Dry Weather Screening

WW = Wet Weather

DW = Dry Weather

TABLE 4

FY 2023 Dry Weather Screening and IDEP Investigations Summary Table

WRC Drain Name	Stormwater Structure DWS Inspections	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Alpine Academy Drain (1)	14	Oakland Township	Clinton	0	0	0	0	
Augusta Drain (1) (2) (3)	3	Pontiac	Clinton	0	0	0	0	
Austin Drain (1) (4) (5)	17	Southfield	Rouge	1	1	1	1	Misconnected Sanitary-Dental Office
Barnard Drain (1) (4)	47	Troy	Clinton	1	0	0	0	
Bear Creek (Local Storm) (1) (4)	1	Hazel Park	Clinton	1	0	0	0	
Bingham Farms Ext. Drain (1)	22	Bingham Farms	Rouge	0	0	0	0	
Birchwood Park Drain (1)	192	West Bloomfield Township	Rouge	0	0	0	0	
Birdsland Drain (1)	26	Pontiac	Clinton	0	0	0	0	
Bloomfield Glens Health Drain (1)	24	West Bloomfield Township	Rouge	0	0	0	0	
Brewer Drain (1)	52	Pontiac	Clinton	0	0	0	0	
Brooklyn Relief Drain (1) (2)	12	Pontiac	Clinton	0	0	0	0	
Clarenceville Drain (1) (3)	1	Livonia	Rouge	1	0	0	0	
Clark Drain (1)	1	Leonard Village	Clinton	0	0	0	0	
Clinton River (1) (2)	4	Independence Twp, Waterford Twp, Rochester Hills	Clinton	0	0	0	0	
Cloisters Drain (1)	15	Oakland Township	Clinton	0	0	0	0	
Country Creek Drain (1)	264	Oakland Township	Clinton	0	0	0	0	
Coy Drain (1)	36	Farmington Hills	Rouge	0	0	0	0	
Craft Drain (1)	11	Brandon Township	Flint	0	0	0	0	
Dan Devine Drain (1)	54	Bloomfield Township	Rouge	0	0	0	0	
Douglas Drain (1)	24	Troy	Clinton	0	0	0	0	
Doyon Drain (1)	60	West Bloomfield Township	Huron	0	0	0	0	
Dry Run Drain (1)	24	Independence Township	Clinton	0	0	0	0	
Dunleavy Drain (1) (4)	264	Madison Heights	Clinton	1	0	0	0	
Dutton Drain (1) (2) (3)	54	Rochester Hills	Clinton	0	0	0	0	
Eagle Creek Drain (1)	21	Oakland Township	Clinton	0	0	0	0	
Evergreen Rd Drain (1)	23	Southfield	Rouge	0	0	0	0	
Ferry Drain (1) (2)	17	Rochester Hills	Clinton	0	0	0	0	
Fessler Drain (1)	84	Rochester Hills	Clinton	0	0	0	0	
Flannery Drain (1) (4)	1	Southfield	Rouge	1	0	0	0	
Fetterly Drain (1)	16	Troy	Clinton	0	0	0	0	
Fracassi Drain (1) (4)	4	Southfield	Rouge	1	0	0	0	
Francis Drain (1)	24	Novi	Rouge	0	0	0	0	
Galloway Drain (1) (2) (3)	1	Auburn Hills	Clinton	0	0	0	0	
Graves Drain (1)	16	Bloomfield Township	Rouge	0	0	0	0	
Green Lake Crossing Drain (1)	56	West Bloomfield Township	Huron	0	0	0	0	
Greenacre Drain (1)	4	Rochester Hills	Clinton	0	0	0	0	
GWK North Drain (1) (4)	1	Madison Heights	Clinton	1	0	0	0	
GWK South Drain (1) (4)	1	Madison Heights	Clinton	1	0	0	0	
Hazel Drain (1) (4)	2	Farmington Hills	Rouge	1	0	0	0	
Hamlin Drain (1)	38	Pontiac	Clinton	0	0	0	0	
Helaine Zack Drain (1) (2) (3)	101	Auburn Hills	Clinton	0	0	0	0	
Henry Graham Drain (1) (4)	20	Madison Heights	Clinton	1	0	0	0	
Hobart Drain (1)	38	Auburn Hills	Clinton	0	0	0	0	
Hoot Drain (1)	10	Rochester Hills	Clinton	0	0	0	0	
Houghten Drain (1)	90	Troy	Clinton	0	0	0	0	
Ireland Drain (1) (2) (3)	1	Rochester Hills	Clinton	0	0	0	0	
Jamian Drain (1)	12	West Bloomfield Township	Rouge	0	0	0	0	
Jewell Drain (1)	2	Pontiac	Clinton	0	0	0	0	
Joachim Drain (1)	62	Auburn Hills	Clinton	0	0	0	0	
Kaczmar Drain (1) (4)	1	Madison Heights	Clinton	1	0	0	0	
Karas Drain (1) (2)	107	Rochester Hills	Clinton	0	0	0	0	
Kirklands Drain (1)	76	Oakland Township	Clinton	0	0	0	0	
Kutchey Drain (1) (4)	58	Warren / Hazel Park	Clinton	1	0	0	0	
Ladd Drain (1) (2) (4)	1	Rochester Hills	Clinton	1	0	0	0	
Mainland Drain (1)	14	Pontiac	Clinton	0	0	0	0	
Maynard Drain (1)	15	Commerce Township	Huron	0	0	0	0	
McClure Drain (1) (2) (3)	13	Oakland Township	Clinton	0	0	0	0	
McDonald Drain (1) (3)	1	Troy	Clinton	0	0	0	0	
Mclvor Drain (1)	6	Waterford Township	Clinton	0	0	0	0	
Mission Springs Drain (1)	91	West Bloomfield Township	Huron	0	0	0	0	
Nelson Drain (1) (2) (4)	2	Troy	Clinton	1	0	0	0	
Nichols Drain (1)	266	Bloomfield Township	Rouge	0	0	0	0	
Norton Drain (1)	18	Millford	Huron	0	0	0	0	
Oak Farm Drain (1)	108	Oakland Township	Clinton	0	0	0	0	
Oak Knob Drain (1)	7	Bloomfield Hills	Rouge	0	0	0	0	
Oakland Farm Drain (1)	99	Oakland Township	Clinton	0	0	0	0	
Oakland Hills Drain (1)	14	Farmington Hills	Rouge	0	0	0	0	
Oakland Hunt Drain (1)	200	Oakland Township	Clinton	0	0	0	0	
Oakland Knolls Drain (1)	62	Oakland Township	Clinton	0	0	0	0	
Otter Drain (1) (3)	35	Waterford Township	Clinton	0	0	0	0	
Owens Drain (1) (4) (6)	7	Southfield	Rouge	1	1	1	1*	Residential Sanitary Lead house connection
Paint Creek Drain (1) (2) (3)	5	Clarkston, Oakland Twp, Oxford Twp, Rochester	Clinton	0	0	0	0	

WRC Drain Name	Stormwater Structure DWS Inspections	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Patterson Holly Drain (1)	143	Holly Village	Shiawassee	0	0	0	0	
Pearl Drain (1)	1	Farmington Hills	Rouge	0	0	0	0	
Pebble Creek Drain (1)	125	Farmington Hills	Rouge	0	0	0	0	
Perry Drain (1)	10	Brandon Township	Clinton	0	0	0		
Pilgrim Hills Estates Drain (1)	17	West Bloomfield Township	Huron	0	0	0		
Pilgrim Hills of West Bloomfield Drain (1)	104	West Bloomfield Township	Huron	0	0	0	0	
Pleasant Lake Drain (1)	22	West Bloomfield Township	Huron	0	0	0	0	
Prince Drain (1)	31	Oxford Township	Clinton	0	0	0	0	
Professional Village of West Bloomfield Drain (1)	23	West Bloomfield Township	Rouge	0	0	0	0	
Reserve of Beverly Crest Drain (1)	30	West Bloomfield Township	Rouge	0	0	0	0	
Rewold Drain (1) (2) (4)	1	Rochester Hills	Clinton	1	0	0	0	
Richton Drain (1)	35	Pontiac	Clinton	0	0	0	0	
Sashabaw Creek (1) (2) (3)	2	Orion township, Independence Twp	Clinton	0	0	0	0	
Sayres Drain (1)	19	South Lyon	Huron	0	0	0	0	
Seely Drain (1)	44	Novi	Rouge	0	0	0	0	
Sharkey Drain (1) (4)	2	Madison Heights	Clinton	1	0	0	0	
Sherman Drain (1)	40	Southfield	Rouge	0	0	0	0	
Sherwood Creek Cluster Homes Drain (1)	35	West Bloomfield Township	Rouge	0	0	0	0	
Sibley Drain (1)	22	Wixom	Huron	0	0	0	0	
Simsbury Plaza Drain (1)	21	West Bloomfield Township	Rouge	0	0	0	0	
Sinclair Drain (1)	4	Lyon Township	Huron	0	0	0	0	
Sinking Bridge Drain (1)	7	Pontiac	Clinton	0	0	0		
Six Points Drain (1)	16	Lyon Township	Huron	0	0	0	0	
Stonebridge Drain (1)	109	West Bloomfield Township	Huron	0	0	0	0	
Sturgis Drain (1) (3)	2	Troy	Clinton	1	0	0	0	
Swan Drain (1)	14	Troy	Clinton	0	0	0	0	
Tilden Drain (1)	74	Pontiac	Clinton	0	0	0	0	
Twin Lakes Drain (1)	14	Oakland Township	Clinton	0	0	0	0	
Varner Relief Drain (1) (2) (3)	71	Rochester Hills	Clinton	0	0	0	0	
Village Square North Drain (1)	91	West Bloomfield Township	Huron	0	0	0	0	
Walnut Wood Drain (1)	25	West Bloomfield Township	Huron	0	0	0	0	
Weir Drain (1)	23	Brandon Township	Clinton	0	0	0	0	
Wessinger Drain (1)	3	Milford Township	Huron	0	0	0	0	
West Bloomfield Pines Drain (1)	15	West Bloomfield Township	Rouge	0	0	0	0	
Westbrooke Condominium Drain (1)	33	West Bloomfield Township	Rouge	0	0	0	0	
West End Drain (1) (2) (3)	1	Waterford Township	Clinton	0	0	0	0	
Whispering Springs Drain (1)	36	West Bloomfield Township	Rouge	0	0	0	0	
Wilmont Drain (1)	32	Waterford Township	Clinton	0	0	0	0	
Wilmont Relief Drain (1)	46	Waterford Township	Clinton	0	0	0	0	
Wolf Drain (1)	109	Rochester Hills	Clinton	0	0	0	0	
Woodlands Drain (1)	150	West Bloomfield Township	Huron	0	0	0	0	
Wynstone Drain (1)	453	Oakland Township	Clinton	0	0	0	0	
Yerkes Drain (1)	45	South Lyon	Huron	0	0	0	0	
Drains	DWS Inspections	Communities	Watersheds	Suspect Drains	Drains Investigated	Illicit Discharges Discovered	Illicit Discharges Corrected	
116	5173	27	5	19	19	2	2	

(1) DWS Stormwater Structure Inspections conducted during FY 2023

(2) DW *E. coli*, TSS, N, & TP sampling conducted during FY 2023 for IDEP & TMDL evaluation

(3) IDEP investigation, DW *E. coli*, DNA sampling conducted during FY 2023. No additional investigation planned for FY 2024

(4) IDEP Investigations, WW-DW *E. coli*, DNA sampling conducted during FY 2023, Ongoing evaluation, investigations planned for FY2024

(5) Illicit Discharge & Discharge sources identified & Corrective Actions Completed in FY 2023

(6) Illicit Discharge & Discharge Source Identified in FY 2022, Corrective Action Pending

(*) Home with illicit connection is currently sitting vacant (homeowner moved out prior to the correction of the illicit connection of the sanitary to the storm system; when the house is sold in the future, the City will ensure the connection is fixed prior to issuing a Certificate of Occupancy

DWS = Dry Weather Screening

WW = Wet Weather

TSS= Total Suspended Solids

N = Nitrogen

TP= Total Phosphorous

TABLE 5

FY 2022 Pollutant Removal Summary Table

Pollutant	Source	Rouge		Clinton		Shiawassee		Total
		No.	Estimated amt.	No.	Estimated amt.	No.	Estimated amt.	
Sewage	Illicit Connections	2	87,640 gal					161,758 gal / yr
	Illicit Discharges			2	67,650 gal			
	SSOs	1	100	4	6,368 gal			
Fuel / Oil & Grease	Accidents Spills / Leaks							420 gal
	LUST	1	200 gal	2	220 gal			
Sediment	Construction Sites	1	Not Estimated			1	Not Estimated	Not Estimated
Hydraulic Fluid	Leaks	1	5 gal					255 gal
	Spills			2	250 gal			
Pet Waste				1	50 lbs			50 Lbs

*** No illicit discharges were found in the Huron or Flint River Watersheds

FY 2022 Illicit Discharges

Type	Source	Pollutant	Watershed	Estimated Amount
Illicit Discharge	Vector Truck	Sewage	Clinton	150 gal
Spill	Fuel Tanker Accident	Gasoline	Clinton	200 gal
Spill Release	Industrial Site	Hydraulic Fluid	Clinton	200 gal
Spill Release	Industrial Site	Hydraulic Fluid	Clinton	50 gal
Spill	Unknown	Oil	Clinton	20 gal
Illegal Dumping	Residential	Pet Waste	Clinton	50 lbs
Illicit Discharge	Comodo Complex, Sanitary	Sewage	Clinton	67,500 gal
SSO	Plugged Sanitary Sewer	Sewage	Clinton	18 gal
SSO	Plugged Sanitary Manhole	Sewage	Clinton	350 gal
SSO	Broken Wasting Pipe at WWTP	Sewage	Clinton	6000 gal
SSO	Failed ARV on Sanitary Force Main	Sewage	Clinton	45 gal
LUST	Gas Station	Diesel Fuel	Rouge	200 gal
Leak	Garbage Truck	Hydraulic Fluid	Rouge	< 5 gal
SESC	Construction Site, Residential	Sediment	Rouge	Not estimated
Illicit Connection	Municipal Complex	Sewage	Rouge	2,040 gal
SSO	Plugged Sanitary Manhole	Sewage	Rouge	100 gal
Illicit Connection	Residential House Lead	Sewage	Rouge	87,600 gal
SESC	Construction Site, Commercial	Sediment	Shiawassee	Not Estimated

TABLE 6

FY 2023 Pollutant Removal Summary Table

Pollutant	Source	Rouge		Clinton		Huron		Total
		No.	Estimated amt.	No.	Estimated amt.	No.	Estimated amt.	
Sewage	Illicit Connections	3	276,500 gal					8,307,800 gal / yr
	Illicit Discharges	1	50 gal					
	SSO / CSO			5	8,031,250 gal			
Fuel / Oil & Grease	Spills / Illegal dumping	1	Not Estimated	4	3,200 gal			3,200 gal
	Construction Sites					1	Not Estimated	
Sediment	Illicit Discharges			2	116,480 lbs			116,480 lbs
	Spills			1	50			
Chromium	Illicit Discharge					1	20	20 gal
Algae	Runoff			1	Not Estimated			Not Estimated

*** No illicit discharges were found in the Shiawassee or Flint River Watersheds

FY 2023 Illicit Discharges

Type	Source	Pollutant	Watershed	Estimated Amount
Spill Release	Plating Facility	Chromium Waste	Clinton	50 gal
Spill Release	Gas Station	Gasoline	Clinton	2,000 gal
Stormwater Runoff	Horse Farm	Manure	Clinton	Not Estimated
Spill Release	Heat Treating Facility	Oil	Clinton	1,000 gal
Spill Release	Unknown	Oil	Clinton	200 gal
Spill Release	Unknown	Oil	Clinton	Not Estimated
Illicit Discharge	Tech Park Retention Pond	Sediment	Clinton	Not Estimated
Illicit Connection	Granite Cutting Facility	Sediment/ Slurry	Clinton	116,480 lbs
SSO	Residential Sanitary	Sewage	Clinton	250 gal
SSO	WWTF	Sewage	Clinton	1.68 million gallons
SSO	Sanitary Interceptor	Sewage	Clinton	1,000 gal
SSO	Sanitary Interceptor	Sewage	Clinton	2.4 million gallons
CSO	WWTF	Sewage	Clinton	3.95 million gallons
Illicit Discharge	Residential Retention Pond	Algaecide	Huron	20 gal
SESC	Residential Construction Site	Sediment	Huron	Not Estimated
Illicit Connection	Residential Sanitary	Sewage	Rouge	86,400 gal
Illicit Discharge	Trailer Park	Sewage	Rouge	50 gallons
Illicit Connection	Dental Facility	Sewage	Rouge	80,600 gal
Illicit Connection	Residential Sanitary	Sewage	Rouge	109,500 gal
Illegal Dumping	Unknown	Turpentine	Rouge	Not Estimated

Partners for Clean Water Annual Report, 2023



SEMICOG

SOUTHEAST MICHIGAN COUNCIL OF GOVERNMENTS



SEMCOG . . . *Developing Regional Solutions*

Mission

SEMCOG, the Southeast Michigan Council of Governments, is the only organization in Southeast Michigan that brings together all governments to develop regional solutions for both now and in the future. SEMCOG:

- Promotes informed decision making to improve Southeast Michigan and its local governments by providing insightful data analysis and direct assistance to member governments;
- Promotes the efficient use of tax dollars for infrastructure investment and governmental effectiveness;
- Develops regional solutions that go beyond the boundaries of individual local governments; and
- Advocates on behalf of Southeast Michigan in Lansing and Washington

Partners for Clean Water Annual Report, 2023

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Abstract

This report details regional water quality activities and projects conducted by SEMCOG over the past year and supports ongoing NPDES Stormwater Phase II compliance activities. Information in this report helps communities and counties meet the reporting requirements associated with federal Phase II Stormwater Regulation. From stormwater and water resource management activities to green infrastructure implementation to climate resilience and flooding risk projects, SEMCOG is actively working with local communities to support water quality improvements throughout the region.

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Permission is granted to cite portions of this publication, with proper attribution. The first source attribution must be "SEMCOG, the Southeast Michigan Council of Governments." Subsequently, "SEMCOG" is sufficient. Reprinting in any form must include the publication's full title page. SEMCOG documents and information are available in a variety of formats. Contact SEMCOG's Information Center to discuss your format needs.

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Partners for Clean Water

- Livingston County & Associated Communities
- Macomb County & Associated Communities
- Monroe County & Associated Communities
- Oakland County & Associated Communities
- St. Clair County & Associated Communities
- Washtenaw County & Associated Communities
- Wayne County & Associated Communities
- Arch Environmental Clean Water group
- Clinton River Watershed Council
- Environmental Consulting & Technology, Inc.
- Fred A. & Barbara M. Erb Family Foundation
- Great Lakes Water Authority
- Friends of the Rouge River
- Friends of the St. Clair River
- Healing Our Waters Great Lakes Coalition
- Hubbell, Roth & Clark
- Huron River Watershed Council
- Johnson & Anderson Inc.
- Michigan Department of Environment, Great Lakes, and Energy
- Michigan Department of Transportation
- Michigan Sea Grant
- Michigan State University Extension
- Tetra Tech
- The Nature Conservancy of Michigan
- US Army Corps of Engineers
- US Environmental Protection Agency

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Southeast Michigan Partners for Clean Water

With an abundance of water flowing throughout Southeast Michigan, it is important that communities throughout the region work together to actively support water quality management. As the designated water quality management agency for Southeast Michigan, SEMCOG has been actively involved with water resource planning since the 1970s. SEMCOG focuses on an integrative approach to water resource management. This involves advancing stormwater education and projects, the blue economy, natural resource protection and enhancement, and water infrastructure systems. As part of this integrative management approach, SEMCOG formed the Southeast Michigan Partners for Clean Water to help meet stormwater permitting compliance and to support regional water quality management.

The Southeast Michigan Partners for Clean Water is comprised of SEMCOG members, including representatives from local communities and counties, as well as representatives from watershed councils, not-for-profit agencies, and the private sector. The purpose of the group is to facilitate information sharing, coordinate public education, and leverage resources on water quality, stormwater management, and green infrastructure implementation.

There was one Southeast Michigan Partners for Clean Water meeting held the 2022-2023 fiscal year:

- December 1, 2022

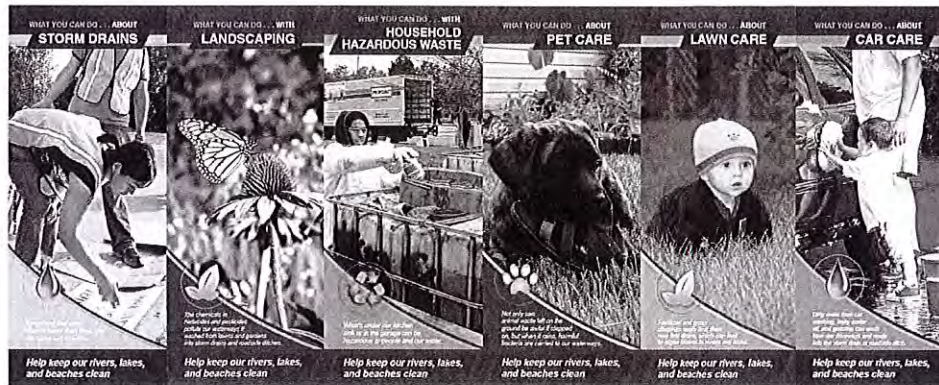
The *Southeast Michigan Partners for Clean Water Annual Report, 2023* details regional water quality activities and projects conducted by SEMCOG over the past year and supports ongoing Phase II compliance activities. Information in this report helps communities and counties meet the reporting requirements associated with federal Phase II Stormwater Regulation. From stormwater and water resource management activities to green infrastructure implementation to climate resilience and flooding risk projects, SEMCOG is actively working with members and local communities to support water quality improvements throughout the region.

Communication, Public Education, and Outreach

What You Can Do...To Protect Our Waterways

In April 2004, SEMCOG launched "Our Water. Our Future. Ours to Protect" water quality public education campaign to provide Southeast Michigan residents with simple actions they can take to help protect water resources.

In 2015, the public education campaign was revitalized and reintroduced as the **"What You Can Do...To Protect Our Waterways,"** campaign. It continues to be used by local communities to educate their residents and send one consistent message on water quality protection throughout Southeast Michigan. Tip cards containing information on "What You Can Do" about Storm Drains, Landscaping, Household Hazardous Waste, Pet Care, Lawn Care, and Car Care, can be found on SEMCOG's [website](#).



The Protect Our Waterways webpage, which lists actions the public can take to protect water resources and includes the link to download the tip card, received 570 tip card downloads from September 2022 – October 2023. The number of times each tip card was viewed is listed below.

Table 1

Tip Card Web Analytics

Webpage	Total Sept 2022-Oct 2023
<u>To Protect our Waterways</u>	
<u>Household Hazardous Waste</u>	150
<u>Storm Drains</u>	126
<u>Landscaping</u>	134
<u>Pet Care</u>	147
<u>Lawn Care</u>	131
<u>Car Care</u>	139

SEMCOG's Environment Webpage

Additional environmental information for Southeast Michigan is available on the [SEMCOG Environment webpage](#). This page contains updated information about SEMCOG's latest projects and easy access to all environmental news. You can also learn more about water infrastructure by checking out SEMCOG's [Water Infrastructure](#) page, which contains information about SEMCOG's latest Infrastructure Asset Management project. SEMCOG also has a [Climate Resilience page](#), which contains information about Southeast Michigan's current and future expected precipitation and SEMCOG's Climate Resiliency and Flooding Mitigation Study. SEMCOG recently introduced the [GREEN \(Growing our Resilience, Equity, and Economy with Nature\) Initiative](#), offering a regional framework showcasing local projects' impact for improved funding and partnerships. This page includes the recently approved Strategic Framework, developed by the GREEN Task Force, as well as the [GREEN Dashboard](#). The initiative aims to ensure resilient, equitable, green infrastructure benefits enhancing Southeast Michigan life. The SEMCOG Executive Committee approved the Southeast Michigan GREEN: Strategic Framework for Growing Resilience, Equity, and Economy with Nature, to guide future efforts. The framework involves regional policies, steering SEMCOG and involving stakeholders for collaborative advancement. The [GREEN Dashboard](#) displays interactive maps tracking tree canopy, recreation access, and green stormwater progress. This tool maximizes data use, aiding communities in enhancing plans and projects.

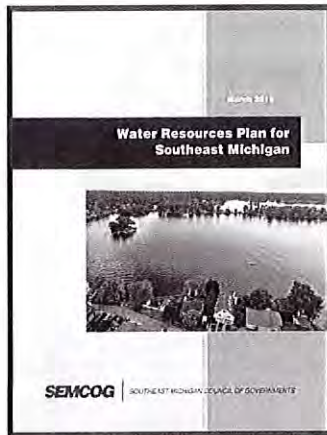
Lastly, be sure to access the [latest Environmental Exchange newsletter](#) to stay up-to-date with all of SEMCOG's work. We will continue to regularly update these environmental pages.

Website Analytics

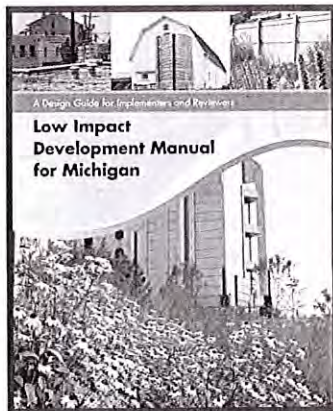
Table 2

Website Analytics

Webpage	Total Sept 2022-Oct 2023
Water	
Stormwater	770
Wastewater	805
Drinking Water	624
Water Infrastructure	900
Partnerships	260
Climate Resilience	1393
GREEN Initiative	477
Land	
Green Infrastructure Vision	156
Low Impact Development Manual	214
Great Lakes, Green Streets Guidebook	82
Parks and Recreation	
Parks and Recreation Plan for Southeast Michigan	94
Southeast Michigan Park Finder	976
Southeast Michigan Park Finder App	813
Southeast Michigan Trail Explorer	4208



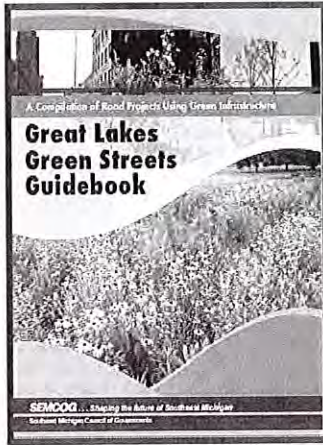
In March 2018, SEMCOG's General Assembly adopted the **Water Resources Plan for Southeast Michigan**. This plan emphasizes the importance of integrated water resources management across the major areas of advancing the blue economy, natural resources protection and enhancement, and water infrastructure systems. Learn more about the Water Resource Plan by viewing this short video **By the Numbers**, highlighting our region's water resources. The **Water Resource Plan for Southeast Michigan** was viewed 94 times between September 2022 - August 2023 on SEMCOG's website.



The **Low Impact Development Manual for Michigan (LID)** provides communities, agencies, builders, developers, and the public with guidance on how to apply LID to new, existing, and redeveloped sites. This guide provides community-level to site-level support, and can be helpful to a variety of stakeholder groups. The **Low Impact Development Manual for Michigan** was accessed 214 times from September 2022 – August 2023.



The **Green Infrastructure Vision for Southeast Michigan** benchmarks where green infrastructure currently stands in Southeast Michigan and sets a vision for the future of green infrastructure for the region. The **Green Infrastructure Vision for Southeast Michigan** was accessed 156 times from September 2022 - August 2023.



The *Great Lakes Green Streets Guidebook* contains a sampling of road improvement projects within the Great Lakes Watershed that have successfully incorporated green infrastructure techniques to manage stormwater runoff and benefit water resources. The *Great Lakes Green Streets Guidebook* was accessed 82 times from September 2022 - August 2023.

One Water Campaign

SEMCOG, in partnership with Great Lakes Water Authority (GLWA), launched the One Water Campaign for Southeast Michigan in 2019. The goal of this campaign is to attain greater awareness and mutual shared responsibility for water resources and to create public support for investments in water resources and infrastructure asset management.



The One Water campaign is coordinated with Great Lakes and Fresh Water Week, a decades-old water quality partnership between SEMCOG, the Southeast Michigan Partners for Clean Water, and the State of Michigan. To broaden the reach of the One Water campaign and connect regional and statewide efforts, SEMCOG worked collaboratively with the Department of Environment, Great Lakes, and Energy (EGLE) on the development of key messages for Great Lakes and Fresh Water week 2023. In these development meetings, SEMCOG supported the State of Michigan's proposed theme of "Make a Splash" for this year. SEMCOG worked with the State of Michigan's team throughout the spring of 2023 to develop messaging for the week and coordinate various efforts.

Keep it fresh. Keep it flowing.

In 2023, the One Water campaign emphasized the critical issues of water workforce and water affordability. Participants from SEMCOG's Water Infrastructure Task Force stressed the importance of these topics and helped to guide messaging for the 2023 campaign. The shortage of skilled water industry personnel is one of the most significant challenges facing the water industry. The water industry is expected to lose approximately 30% of its workforce by the end of this decade. Southeast Michigan's water infrastructure providers will encounter increasing challenges in recruiting and retaining a qualified workforce to manage and maintain water infrastructure systems. Changing precipitation patterns, coupled with aging infrastructure, have driven up the costs of water services. Many residents in the region are facing financial constraints, making it challenging for them to afford essential water services. As a result, ensuring equitable access to clean and safe water for all residents has become a pressing social and economic concern. The campaign sought to raise awareness about this issue, promote affordability resources, and prevent water disconnections for vulnerable populations. Two new videos were developed for the 2023 campaign, promoting careers in water by highlighting members of the water workforce across the region. SEMCOG conducted interviews with members of the water workforce from diverse facilities, including the Marysville Wastewater Treatment Plant, Farmington Hills Public Works, and Milford Public Works.

- [Water Workforce video A](#)
- [Water Workforce video B](#)

On June 5, 2023, SEMCOG staff, in partnership with EGLE and GLWA, held a [webinar](#) titled *Water: Connected for Life*. This webinar kicked off Great Lakes and Fresh Water Week and the start of the One Water campaign. In addition, the significant changing of Southeast Michigan's of water workforce concept was further amplified in an [article](#) titled "Building the Future: Water Infrastructure Careers" by SEMCOG planner Grant Brooks on June 2, 2023. One Water messages and content were broadcast on various media sources throughout Southeast Michigan. The blog has received 43 views to date.

The 2023 campaign was successful, having a high reaching engagement impact across the region. Videos were also promoted on Facebook, YouTube, and Instagram. Television advertisements were additionally used to advertise the One Water videos on local TV stations FOX 2, WDIV 4, WDIV 4.3 METV, TV20, and CW50. These videos featured representatives and leaders from Southeast

Michigan water service providers and organizations. SEMCOG shared social media memes on Facebook, Twitter, Instagram throughout the Great Lakes and Fresh Water week. Social media memes helped communicate One Water messages and actions in a fun and engaging way. Total campaign impressions surpassed 16 million in spring and summer of 2023.

More than 90 orders were placed from communities throughout Southeast Michigan. Tip cards contain important facts regarding fats, oils, and greases; flushable wipes; and the importance of water workforce participation. Cards were paired with *One Water* giveaway items to both educate residents as well as give them some of the tools necessary to engage in stewardship actions.

In August, 2023, SEMCOG published the 2023 One Water Implementation Report. This document provides an overview of the One Water messages for the 2023 campaign and includes data on overall public engagement throughout the duration of the campaign.

To view One Water materials and find other helpful information on wastewater, stormwater, and drinking water, visit mionewater.com. This website contains educational videos, social media posts, tip cards, an interesting blog series on all three topics, and more.

Media

SEMCOG has multiple publications, including the *Regional Update* and *Environmental Exchange* newsletters, blogs, and social media. Media activities conducted by SEMCOG are described in the following section.

Regional Update

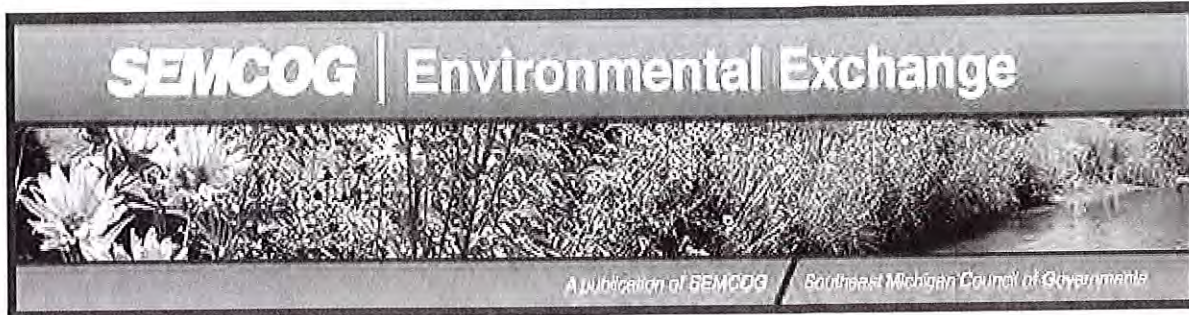
SEMCOG continues to communicate with its members and partners to provide information on its programs, projects, services, and data about Southeast Michigan. To enable information sharing, SEMCOG publishes a bi-weekly *Regional Update* newsletter, which often includes information on water quality, green infrastructure, and stormwater management. SEMCOG also circulates information on impending environmental policy that can affect Southeast Michigan and helps publicize important environmental meetings in the region.

SEMCOG | Regional Update

A Biweekly Publication of SEMCOG, the Southeast Michigan Council of Governments

- [August 22, 2023](#)
- [August 9, 2023](#)
- [July 25, 2023](#)
- [July 12, 2023](#)
- [June 20, 2023](#)
- [June 6, 2023](#)
- [May 23, 2023](#)
- [May 9, 2023](#)
- [April 25, 2023](#)
- [April 11, 2023](#)
- [March 28, 2023](#)
- [March 14, 2023](#)
- [February 28, 2023](#)
- [February 14, 2023](#)
- [January 31, 2023](#)
- [January 17, 2023](#)
- [January 3, 2023](#)
- [December 14, 2022](#)
- [November 29, 2022](#)
- [November 15, 2022](#)
- [November 1, 2022](#)
- [October 18, 2022](#)
- [October 4, 2022](#)
- [September 20, 2022](#)
- [September 6, 2022](#)
- [August 23, 2022](#)
- [August 9, 2022](#)
- [July 27, 2022](#)
- [July 12, 2022](#)
- [June 21, 2022](#)
- [June 8, 2022](#)
- [May 24, 2022](#)
- [May 10, 2022](#)
- [April 26, 2022](#)
- [April 12, 2022](#)
- [March 30, 2022](#)
- [March 16, 2022](#)
- [March 1, 2022](#)
- [February 15, 2022](#)
- [February 1, 2022](#)
- [January 19, 2022](#)
- [January 4, 2022](#)

Environmental Exchange



Environmental Exchange is a monthly newsletter highlighting environmental news, grants, and best practices for SEMCOG members to learn about and stay up to date. The newsletter has 411 subscribers, to date. The following issues of Environmental Exchange were published from Fiscal Year 2022-23.

- [June 2023](#)
- [May 2023](#)
- [April 2023](#)
- [March 2023](#)
- [February 2023](#)
- [January 2023](#)
- [November 2022](#)
- [October 2022](#)
- [September 2022](#)
- [August 2022](#)
- [July 2022](#)

Blogs

SEMCOG publishes blogs highlighting regional environmental successes. The following blogs were published during Fiscal Year 2022-23.

- [2022 Regional Showcase project merges environmental, fiscal sustainability](#)
- [SEMCOG launches GREEN Task Force, seeks your input](#)
- [Top 5 Lessons Learned at the Southeast Michigan Regional Trails Summit](#)
- [Materials Management Planning: A Revised Approach to Solid Waste and Recycling Management](#)
- [World Wetlands Day](#)

- [Competitive DNR Grants to Fund Improvements at 13 Southeast Michigan Parks](#)
- [Growing Together – Southeast Michigan Commits to a GREEN Future](#)
- [Building the Future: Water Infrastructure Careers](#)
- [Touring Recreation and Conservation Assets in Monroe and Downriver](#)

Social Media

SEMCOG maintains a presence on social media through both [Twitter](#) and [Facebook](#). Social media platforms are ways to spread messages to the public. They are used to circulate blog posts and information from both the *Regional Update* and the *Environmental Exchange*. SEMCOG also uses social media to highlight the Green Infrastructure Education series and bring attention to the “What You Can Do...To Protect Our Waterways,” public education campaign. SEMCOG makes an effort to post weekly messages from the water quality Tip Cards to keep our followers informed on what they can do to help protect water quality. In addition to keeping followers up-to-date on everything SEMCOG is doing, SEMCOG also uses social media to highlight events and projects happening throughout the region and to share best practices for protecting environmental quality.

In August 2023, SEMCOG had:

- 3,727 followers on Twitter
- 18,200 average monthly impressions on Twitter
- 3,229 followers on Facebook

Municipal Training and Government Outreach

SEMCOG Universities

SEMCOG University workshops provide opportunities for SEMCOG member local elected leaders and staff to learn. Environmentally oriented SEMCOG Universities are described in this section. In addition to SEMCOG Universities, SEMCOG also provides technical assistance and hosts multiple committees, which provide additional educational and outreach opportunities.

SEMCOG moved many SEMCOG Universities to a webinar format. This has given us the chance to record these webinars and make them available for everyone. Visit the SEMCOG Membership Services page to view the [On-Demand Webinar Library](#), and be sure to check out the list of upcoming webinars to stay up-to-date on regional environmental news.

Illicit Discharge and Elimination Program (IDEP)

SEMCOG, in partnership with ECT Consulting, held two in-person Illicit Discharge Elimination Program Trainings in 2022. Each training was identical, however, offered twice to accommodate schedules. These trainings included [IDEP Alert Observer Training](#), [IDEP Investigator Training](#), and [Pollution Prevention and Good Housekeeping Training](#). IDEP Alert Observer and Investigator training sessions were offered both on October 18 and November 10 and had over 200 attendees in total. The Pollution Prevention and Good Housekeeping training session was held on October 19, 2022, and had a total of 95 attendees. These trainings were developed to help support MS4 Phase II Stormwater permit compliance for SEMCOG members and local communities. These trainings help to educate public works staff on how to identify potential pollutants while out in the field, and how to properly report and treat these pollutants. SEMCOG also provides training certificates to participants.

SEMCOG Committees

Executive Committee

SEMCOG's Executive Committee conducts the main policy work and is the financial control body of the organization, providing final approval of regional studies and plans, as well as taking action on policies and legislative positions.

General Assembly

SEMCOG's General Assembly consists of delegates and alternates from all SEMCOG member communities and educational institutions. During the October 2022 General Assembly, a session addressed the consequences of postponed investments in water systems recognized by SEMCOG's Water Infrastructure Task Force. It also updated participants on recent federal and state funding options, including support for flooding and stormwater utilities.

SEMCOG Current Projects

National Wetland Inventory Update Project

SEMCOG, in partnership with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and Ducks Unlimited, worked to update the National Wetland Inventory for Southeast Michigan. The 2015 National Wetland Inventory data for the region can be found on SEMCOG's website. Additionally, this data contains the functions and values for wetlands across the region, making it a helpful tool as local communities develop policies and guidelines around wetland regulations and seek restoration opportunities. Be sure to check out the updated data today!

In the 2020-2021 year, SEMCOG continued to work with Ducks Unlimited and the Michigan Department of Natural Resources on the National Wetland Inventory update. SEMCOG had both Ducks Unlimited and EGLE staff present at the December 3 Partners for Clean Water meeting to provide an update on the project and discuss the data that will be available upon project completion. The National Wetland Inventory is being updated and will be delayed due to COVID-19. Currently, the mapping part of the project is complete, and the functions and values are being updated by EGLE.



Great Lakes Restoration Initiative

SEMCOG partnered with the EPA to establish a green infrastructure subaward program, funded by the Great Lakes Restoration Initiative (GLRI). The program's primary goal is to provide funding to counties, cities, villages, townships, intermediate school districts, and community colleges for constructing green infrastructure techniques that yield environmental benefits, with a primary focus on reducing stormwater runoff volume. The SEMCOG Green Stormwater Infrastructure Program plays a vital role in implementing small-scale green infrastructure techniques, contributing to both regional and local stormwater management goals. Additionally, it aims to build capacity within several disadvantaged communities at the local level.

To date, SEMCOG has allocated GLRI funds to 15 local agencies for green stormwater infrastructure projects. These initiatives are spread across parks, transportation corridors, waterways, neighborhoods, and government facilities, aiming to reduce over 12 million gallons of runoff annually. Recipients include:

- Clinton Township
- Independence Township
- City of Madison Heights
- City of Rochester Hills
- Pittsfield Township
- City of Center Line
- Clinton Township (Second project)
- City of Dearborn
- City of Grosse Pointe Park
- Huron River Watershed Council (with Walled Lake and Wixom)
- City of Northville
- Oakland County Water Resources Commission
- City of River Rouge
- City of Southfield
- City of Trenton

- **Projects that do not require SEMCOG coordination:**
 - Center Line - \$80,000
 - Clinton Township - \$95,000
 - Grosse Pointe Park - \$53,885
 - Nonprofit Co-Applicant: Huron River Watershed Council & City of Wixom, City of Walled Lake - \$97,000
 - Nonprofit Co-Applicant: The Northville Historical Society and City of Northville - \$95,000
 - Southfield - \$95,000
 - Oakland County - \$95,000
- **Projects that require SEMCOG assistance:**
 - River Rouge - \$95,000
 - Dearborn - \$95,000
 - Trenton - \$95,000
- **Total award: \$895,885.00**

SEMCOG took proactive steps to support communities that had applied for GLRI grants, offering assistance in coordinating proposed green infrastructure projects. Staff provided guidance in selecting suitable sites and calculating the estimated annual runoff for retrofit purposes. Additionally, SEMCOG ensured effective collaboration with the EPA to align GLRI projects and proposed site locations.

Green Infrastructure and Coastal Resiliency

In 2022, SEMCOG partnered with the Center for Watershed Protection (CWP) to secure a Michigan Coastal Management Grant. The joint effort focused on conducting Green Infrastructure Assessments for Coastal Resiliency in Southeast Michigan. The goal of this project was to build coastal resiliency in Southeast Michigan and help to preserve coastlines and mitigate the impact of flooding on coastal communities. Through this grant, the project team identified high-priority, publicly owned properties where green infrastructure implementation would be feasible.

SEMCOG and CWP conducted in-person assessment of the proposed green infrastructure sites throughout the coastal counties. Sites in St. Clair and Macomb Counties were assessed June 13-16, 2022. The Wayne and Monroe County sites will be assessed July 25-29, 2022. These field visits were designed for SEMCOG and CWP to physically evaluate the selected sites for green infrastructure suitability and potential for shoreline restoration. This data was collected digitally using tablets equipped with ArcGIS Field Maps. Data was used to prioritize the 12-15 sites selected for conceptual plans.

Throughout the 2023 fiscal year, SEMCOG provided evidence-based recommendations to enhance coastal resiliency through the Green Infrastructure Assessments for Coastal Resiliency. The report summarized these findings along with the concept plans, underlining the importance of integrating green infrastructure into coastal resiliency planning. These concept plans will be eligible for future funding opportunities. After the concept plans were developed, SEMCOG reached out to the local communities with concept plans to talk about next steps for the projects, identify funding opportunities, and answer questions. SEMCOG presented this project at both the Center for Watershed Protection National Conference and the Ohio Stormwater Conference.

Engagement in Activities that Implement the Water Resources Plan for Southeast Michigan

The Water Resources Plan for Southeast Michigan guides much of SEMCOG's work and is supported and influenced by SEMCOG's members. Recent activities and initiatives that reflect priorities in the plan include the:

- Water Infrastructure Task Force and Planning Guide
- One Water public education program
- MDOT Climate Resiliency and Flooding project
- Infrastructure Asset Management program

Additionally, environmental and water resource priorities are integrated into other SEMCOG regional plans and work program activities, including the Regional Transportation Plan, the Economic Development Strategy for Southeast Michigan, and the Parks and Recreation Plan for Southeast Michigan.

Water Infrastructure Planning Guide

SEMCOG continued its Water Infrastructure Task Force into the fiscal year. Comprised by a diverse group of experts, policymakers, and community leaders, the task force's primary mission was to collaboratively address the region's water challenges and develop actionable strategies for enhancing water infrastructure resilience. During the fiscal year, SEMCOG achieved significant milestones in its publication of Southeast Michigan's Water Infrastructure Planning Guide and Water Infrastructure Policies and Actions, developed with guidance from the Task Force. SEMCOG successfully published the Water Infrastructure Planning Guide on March 23, 2023, a comprehensive document aimed at providing municipalities and communities with essential guidance for strategic water infrastructure development. The Policies and Actions articulate the timely need for action and specific opportunities to address. Both of these documents act as companion documents to the Water Resources Plan, focusing on infrastructure. This guide offers a wealth of valuable information, including best practices, innovative technologies, and funding opportunities to improve water infrastructure resiliency and efficiency across the region. In response to the growing urgency of water-related issues, SEMCOG facilitated workshops, seminars, and virtual meetings to foster dialogue, gather feedback, and gain valuable insights from various communities, ensuring the guide aligns with their unique needs and challenges.

A SEMCOG University on the DMA program further advanced efforts to strengthen the region's water infrastructure as well as the completion of the Annual Designated Management Agency Report. Additionally, highlights of SEMCOG's activities were presented at the American Water Works Association (AWWA) Water Infrastructure Conference in Portland, Oregon. This conference provided a platform for SEMCOG to showcase water infrastructure work and exchange ideas with industry peers.

During this fiscal year, SEMCOG actively engaged with multiple stakeholders, including Michigan Department of Transportation (MDOT), National Oceanic and Atmospheric Administration (NOAA), Great Lakes Water Authority (GLWA), Detroit Water and Sewerage Department (DWSD), Army Corps of Civil Engineers (ACEC), and the Michigan Infrastructure Council (MIC), to institutionalize a regional infrastructure coordination process. This involved conducting meetings and background research to ensure effective coordination and integration of climate resiliency planning into the Regional Transportation Plan (RTP) development processes. SEMCOG also prepared and presented updates on the infrastructure coordination workshop and upcoming regional resiliency plan at the Executive Committee meeting, reflecting their commitment to transparency and collaboration with key decision-makers.

SEMCOG's efforts culminated in hosting the Infrastructure Coordination Workshop in April 2023, collaborating with MDOT and MIC to solicit collaborative work and improve the coordination of infrastructure projects across public and private sectors, showcasing their dedication to efficient resource investment.

Municipal Separate Storm Sewer System Tracking Tool for Post-Construction Standards Compliance

SEMCOG, in coordination with Oakland County Water Resources Commissioner (OCWRC), developed a MS4 (Municipal Separate Storm Sewer System) Post-Construction Tracking Tool to support local agency compliance with NPDES MS4 Phase II Stormwater Permit requirements. Post-construction refers to stormwater standards required for new developments and redevelopments, specifically establishing how stormwater is managed from these projects. This tool is available to all

local agencies within the SEMCOG region who are required to comply with these related post-construction standards within their NPDES stormwater permits.

The tracking tool utilizes ArcGIS Survey 123 to capture required project and stormwater management calculation details. The tool is designed for county, community, and consultant input to collect individual project development post-construction plan review data. SEMCOG summarizes the information for each permittee and provides that information back in a report format to each contributing local agency who then submits to EGLE as part of their compliance reporting. The tool requests local agencies to input basic location information for new and redevelopments, detailed engineering pre-development/post-development site criteria, and quantities of stormwater managed. The tool supports MS4 permit compliance with consistent reporting format and details. This is a vital tool for local agencies to demonstrate the success of alternative approaches to typical permit requirements. As of September 2023, four counties and twenty-six communities have submitted data.

Climate Resilience

SEMCOG is engaged in numerous projects concerning climate resilience within the region. As severe flooding events persist, SEMCOG is working to understand vulnerabilities in the region's transportation and infrastructure networks to determine best practices to address these challenges. Products of a recently completed Climate Resiliency study can now be found on [SEMCOG's Climate Resilience webpage](#) and can help guide communities as the plan for these stressors.

SEMCOG has been proactive in presenting climate resiliency work at conferences and seminars, including the Michigan Transportation Planning Association (MTPA) pre-conference session in Flint and a panel discussion on water infrastructure at the InfraDay conference in Chicago.

Collaboration has been a key aspect of SEMCOG's efforts, as staff worked closely with the NOAA team on integrating equity work into flood risk and planning tools. SEMCOG also engaged with MDOT and other stakeholders to develop a scope of work for Stormwater and Infrastructure coordination. This collaboration culminated in the final meeting of the Water Infrastructure Task Force, where policies and actions for the Water Infrastructure Plan were updated and approved.

SEMCOG also met with various organizations, such as Great Lakes Integrated Sciences and Assessments (GLISA), Volpe, and MSU SeaGrant, to discuss the plan's integration into transportation planning work and Water School initiatives. The ongoing work with NOAA and Fernleaf teams aims to incorporate equity components into the Flood Risk Tool, further enhancing climate resiliency efforts. SEMCOG's commitment to climate resiliency planning extended to hosting workshops, webinars, and meetings. In June, SEMCOG facilitated a webinar highlighting the benefits of CWP membership for their members.

The year also saw SEMCOG's active involvement in several advisory and committee meetings, such as Rouge River Advisory Council, Middle Huron Partners, and Stormwater Hub Quarterly Advisory Group, where they discussed a wide range of topics related to resiliency and water management.

To continue climate resiliency work, SEMCOG released a request for proposals and procured TetraTech with ICF as a subconsultant for a Regional Resiliency Framework project that will build on the GREEN work to develop a pilot area for large-scale nature-based solutions to flooding; develop a data resource of climate, rainfall, and resiliency data sets that can be used for resiliency analyses; and outline a programmatic approach that communities can utilize for resiliency work at the local level. This work will be completed in the next fiscal year.

Environment and Ecosystem Services Tool

As part of the regional transportation planning process, SEMCOG conducts an environmental sensitivity analysis for all transportation projects. To enhance and update this analysis, SEMCOG is working Highland Economics (HE) to develop an Environmental and Ecosystem Services Tool. This tool will provide an online planning - level service to local agencies, incorporating more recent environmental data and initiatives to inform project selection. Users of the tool will be able to map potential project areas and provide inputs on required site details for a transportation, development, or redevelopment project. The tool will estimate the potential environmental and ecosystem impacts of that project, including stormwater runoff, water quality, recreation, urban heat island, habitat, and air quality. In addition, the tool will offer guidance for potential best management practices and mitigation opportunities, while highlighting estimated returns on investments for reducing impacts related to project development. The online tool is expected to be completed by Summer 2024 and will roll out for public use at that time.

GREEN Initiative

In collaboration with various SEMCOG departments, SEMCOG developed its Southeast Michigan Growing our Resilience, Equity, and Economy with Nature) GREEN Initiative. With a focus on implementation, Southeast Michigan GREEN provides a regional framework that demonstrates the impact of local projects, positioning them for successful funding and partnership opportunities. This initiative is driven by the goal to ensure that public benefits of green infrastructure are resilient, equitable, and improve the quality of life in Southeast Michigan communities.

SEMCOG convened the GREEN Task Force to guide this initiative forward. Led by co-chairs Bryan Barnett, Mayor of Rochester Hills, and Abdullah Hammoud, Mayor of Dearborn, task force members include representatives from local governments, State agencies, land conservancies, and recreation providers, healthcare, utilities, and business.

The task force was charged with increasing the quantity, quality, and connectivity of our green infrastructure network and ensuring that public benefits of green infrastructure are equitable and resilient. Over the course of three meetings, task force members discussed their visions for the region's future and current efforts to implement GREEN strategies. Public input, expert focus groups, and analysis of recently updated land cover data all helped to guide the task force to establish regional metrics and targets for all aspects of the region's green infrastructure network, including green stormwater infrastructure, resilient natural landscapes, and protected public land.

In coordination with the GREEN task force, SEMCOG developed a GREEN Dashboard. This dashboard aims to share SEMCOG's data and resources with its members, while understanding more about project opportunities and needs in the region. Additionally, SEMCOG produced its GREEN Report as a product of the GREEN Task Force. This report declares the framework's consensus-based and data-driven metrics to enhance the quantity and quality of the region's green infrastructure network, while identifying policies, priority areas, and planning resources to support future implementation.

Parks and Recreation

SEMCOG continues to implement the Parks and Recreation Plan for Southeast Michigan, to ensure that the region's recreation system meets the quality of life, health, and accessibility needs of residents and visitors, along with regional economic development goals and environmental priorities. Data

analysis and maps from the plan have been used to develop the Access to Parks Analysis Tool, which provides an interactive format to understand where people live in relation to outdoor recreation opportunities. The tool models travel times for walking, biking, driving, and transit, and includes geographic, demographic, and park amenity data, and may be used to assist with collaboration across communities and planning improvements that serve more people. SEMCOG also continues to update and promote the Southeast Michigan ParkFinder® and Trail Explorer websites. All these resources are regularly utilized to support local communities with funding applications, promote the region's outdoor recreation opportunities, and guide the development of plans, projects, and policies with SEMCOG's members and partners.

In addition, SEMCOG convenes regional recreation stakeholders through a leadership role with the SEMI WILD network and participates in a variety of stakeholder committees at the local, regional, and state level. These efforts engage regional stakeholders in developing coordinated approaches to enhancing and promoting our recreational assets. Other outreach and engagement efforts have included SEMCOG University webinars on data resources and grant opportunities, and hosting events like the Southeast Michigan Regional Trails Summit and Recreation and Conservation Tour with the Michigan Department of Natural Resources Trust Fund.

For more information, please visit <https://www.semcoq.org/stormwater> to learn more.

SEMCOG Officers 2023-2024

Pauline Repp

Chairperson
*Mayor,
Port Huron*

Mandy Grewal

First Vice Chair
*Supervisor,
Pittsfield Township*

Laura Kropp

Vice Chairperson
*Mayor,
Mount Clemens*

Gwen Markham

Vice Chairperson
*Commissioner,
Oakland County*

Michelle Nard

Vice Chairperson
*Commissioner,
Macomb County*

Theresa Rich

Vice Chairperson
*Vice President,
Oakland Schools*

Chris Barnett

Immediate Past Chair
*Supervisor,
Orion Township*

Amy O'Leary

Executive Director

*Learn how
watersheds affect
water quality*

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. Every home, business and farm in Michigan is in a watershed!

Groundwater is water that is stored underground in the spaces between soil particles and fractured rocks and is a source of drinking water for many suburban and rural households. Groundwater resources can be impacted if pollutants in runoff leach through the soil. Pollutants can impact water quality by harming fish and wildlife, impairing recreation (fishing, boating and swimming) and contaminating drinking water supplies.

Rouge River Watershed

Map showing the Rouge River Watershed area, including various municipalities and landmarks. Key locations labeled include:

- ROCHESTER HILLS
- AUBURN HILLS
- PONTIAC
- TROY
- BLOOMFIELD HILLS
- BIRMINGHAM
- BEVERLY HILLS
- SOUTHFIELD TWP.
- LATHRUP VILLAGE
- OAK PARK
- DETROIT
- HIGHLAND PARK
- DEARBORN
- DEARBORN HEIGHTS
- GARDEN CITY
- WESTLAND
- INKSTER
- WAYNE
- ROMULUS
- VAN BUREN TWP.
- PSILANTI TWP.
- SUPERIOR TWP.
- CANTON TWP.
- PLYMOUTH TWP.
- PLYMOUTH
- NORTHVILLE TWP.
- LYON TWP.
- SALEM TWP.
- NOV
- NORTHVILLE
- FARMINGTON HILLS
- FARMINGTON
- SOUTHFIELD
- REDFORD TWP.
- LIVONIA
- WALLED LAKE
- COMMERCETWP.
- ORCHARD LAKE
- WEST BLOOMFIELD TWP.
- FRANKLIN
- BIRCHAM FARM
- WIXOM

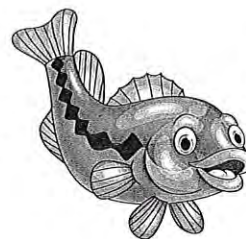
Stormwater pollution plays a large role in water quality. This contaminated runoff comes from many different sources and is difficult to trace back to one source on the landscape. Contaminated runoff flows without treatment into the nearest stormwater drainage system. This may consist of simple drainage ditches or infrastructure such as enclosed pipes, outfalls, catch basins and detention ponds.

For more information on your watershed, visit:

www.allianceofrougecommunities.com



How Water Quality Works



Learn how water quality is affected by watersheds

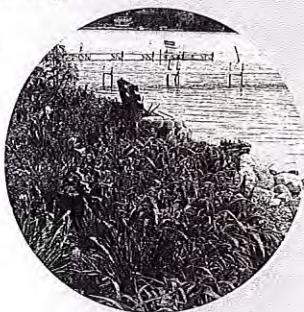
Water quality plays an important role in a healthy watershed and you can contribute to the solution, not the pollution! Clean water provides communities with drinking water, makes recreation like boating and fishing safe for the residents of Michigan and supports a healthy ecosystem for plants and wildlife.

Knowing how watersheds work is important because it allows us to understand that our actions have an impact on water quality. When rain and snow/ice melt travel across the land (watershed) and into storm drains, it is called stormwater or runoff. As this runoff travels, it picks up trash, animal waste, chemicals, sediments and dissolved substances along the way until it discharges into the nearest waterbody which has a negative affect on water quality.

Common types of pollution in stormwater runoff include sediment, nutrients, chemicals, bacteria and illicit discharges. In addition to stormwater runoff, water velocity can decrease water quality.

Sediment can be eroded soil from unprotected construction sites, eroding streambanks and shorelines and runoff from agricultural lands.

- Adding vegetative buffers along agricultural land or at the water's edge of your waterfront property can help slow runoff.



Nutrients include natural sources (organic debris), fertilizers, animal waste (pets, wildlife, and livestock) and sewage sources coming from failing septic systems or illegal discharges of sewage.

- Don't feed the ducks and geese because the concentration of droppings adds excess nutrients to the river.
- Fertilize your yard with slow-release fertilizer and sweep excess particles off paved surfaces back onto the lawn.



Chemicals can come from pesticides used on residential and agricultural lands, leaking vehicle fluids, road salt and the improper disposal of household chemicals.

- Change to a chemical alternative for cleaning, like peroxide or baking soda and vinegar, and dispose of

cleaning supplies, paints, oven cleaners, aerosol cans, etc. at a household hazardous waste collection event in your community.

- Use Michigan native plants in your yard which are naturally resistant to pests and diseases, eliminating the need for harmful pesticides.



Bacteria is another source of pollution in stormwater which comes from animal waste or human sewage sources.

- Always pick up after your pet, even in the winter, to prevent the bacteria from washing into drainage ditches and storm drains which go straight to the river and have a negative impact on water quality.
- If you have a septic tank on your property, have it inspected every 3 years and pumped out every 3-5 years.

Illicit discharges are any discharge to a storm drain or waterbody that contains polluting material, such as sediment, nutrients, oil, and bacteria.

- If you see someone dumping anything in the river or lake, on the side of the road or even down the storm drain on your street, report it to your community's pollution hotline.

Report Illegal Dumping

Michigan's Pollution Alert System	800-292-4706
Macomb County	877-679-4337 or IDEP@macombcountymi.gov
Oakland County	248-858-0931
St. Clair County	277-504-SWIM
Washtenaw County	734-222-3800 or https://washtenaw.org/196/Report-an-Issue
Wayne County	888-223-2363

Water velocity is too much water, too quickly, which scours the streambed and banks adding to the sediment and recirculating the bacteria and chemicals in the river reducing water quality.

- Plant trees to provide a natural filter to reduce stormwater runoff, flooding and erosion.
- Disconnect downspouts around your home or business to slow runoff and reduce the amount of sediment entering the river.



For more information on how to protect water quality, visit:

www.allianceofrougecommunities.com



EXHIBIT K

2022 Spring / Summer

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
1500 BROWN ROAD | AUBURN HILLS 48326

PHONE 248-391-3777
FAX 248-391-4895
EMAIL DPW@AUBURNHILLS.ORG

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

HOUSEHOLD HAZARDOUS WASTE DAY

SATURDAY, 5/14/2022 | 9 AM - 3 PM

ACCEPTED MATERIALS



COMPUTERS, TELEVISIONS, MICROWAVES, HOUSEHOLD BATTERIES, ANY ELECTRONIC DEVICES



HOUSEHOLD CHEMICALS, SOLVENTS, MOTH BALLS, EXPIRED MEDICATIONS, MERCURY DEBRIS, CLEANING PRODUCTS, SOLVENT-BASED GLUE, FLUORESCENT LIGHTBULBS



FUNGICIDES, HERBICIDES, INSECTICIDES, PESTICIDES, FERTILIZERS, RAT POISON



AUTOMOTIVE OILS, GASOLINE, KEROSENE, DIESEL FUELS, BRAKE FLUID, ANTI-FREEZE, ACID FILLED BATTERIES, ACID, SOLVENTS, WAXES, LUBRICANTS



SOLVENTS, OILS, GLUES, CAULKING, PAINT THINNER, TURPENTINE, VARNISHES, WOOD PRESERVATIVES, EPOXY, EMPTY PROPANE TANKS

NON-ACCEPTED MATERIALS



LATEX PAINT / WATER-BASED PAINT NOT ACCEPTED BECAUSE THESE ARE NOT CONSIDERED HAZARDOUS WASTE PRODUCTS. LATEX PAINT CAN BE SOLIDIFIED BY OPENING THE CONTAINER AND LETTING IT DRY, OR USING AN ABSORBENT SUCH AS SAND OR KITTY LITTER. ONCE SOLIDIFIED, THE CONTAINER CAN BE DISPOSED OF IN REGULAR HOUSEHOLD GARBAGE. PLEASE HELP US DEFRAY THE COST OF PAYING A HAZARDOUS WASTE COLLECTION VENDOR FOR DISPOSAL OF WATER-BASED PAINTS.



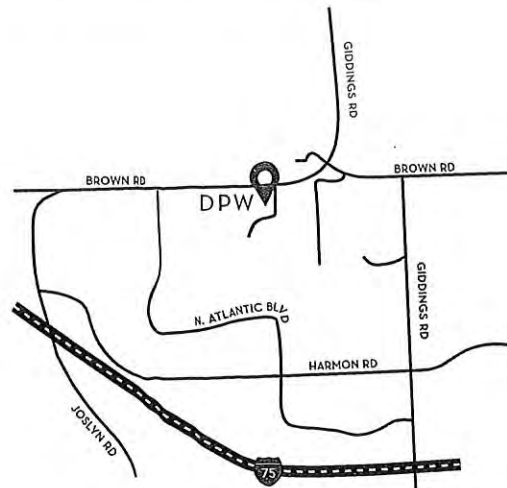
COMMERCIALLY GENERATED WASTE, RADIOACTIVE WASTE, EXPLOSIVES, AMMUNITION, SHOCK SENSITIVE MATERIALS, INDUSTRIAL COMPRESSED GAS CYLINDERS, MEDICAL WASTE (NEEDLES, SHARPS, SYRINGES).

AUBURN HILLS DPW GARAGE

1500 BROWN ROAD | AUBURN HILLS, MI 48326

LOCATED ON THE SOUTH SIDE OF BROWN ROAD BETWEEN
JOSLYN & GIDDINGS ROADS

NOTE: THIS EVENT IS FREE OF CHARGE AND IS OPEN TO
ALL AUBURN HILLS RESIDENTS. PLEASE BRING PROOF OF
RESIDENCY WITH YOUR AUBURN HILLS ADDRESS.



DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
1500 BROWN ROAD | AUBURN HILLS 48326

PHONE 248-391-3777
FAX 248-391-4895
EMAIL DPW@AUBURNHILLS.ORG

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

HOUSEHOLD HAZARDOUS WASTE DAY SATURDAY, MAY 13, 2023 | 9:00 AM - 2:00 PM

ACCEPTED MATERIALS



COMPUTERS, TELEVISIONS, MICROWAVES, HOUSEHOLD BATTERIES, ANY ELECTRONIC DEVICES



HOUSEHOLD CHEMICALS, SOLVENTS, MOTH BALLS, EXPIRED MEDICATIONS, MERCURY DEBRIS, CLEANING PRODUCTS, SOLVENT-BASED GLUE, FLUORESCENT LIGHTBULBS



FUNGICIDES, HERBICIDES, INSECTICIDES, PESTICIDES, FERTILIZERS, RAT POISON



AUTOMOTIVE OILS, GASOLINE, KEROSENE, DIESEL FUELS, BRAKE FLUID, ANTI-FREEZE, ACID FILLED BATTERIES, ACID, SOLVENTS, WAXES, LUBRICANTS



SOLVENTS, OILS, GLUES, CAULKING, PAINT THINNER, TURPENTINE, VARNISHES, WOOD PRESERVATIVES, EPOXY, EMPTY PROPANE TANKS

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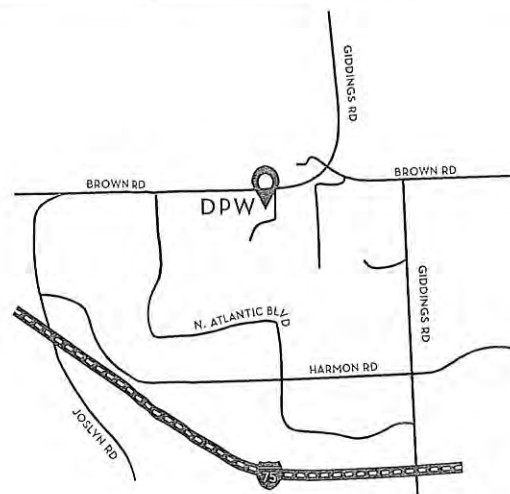
COMMERCIALLY GENERATED WASTE, RADIOACTIVE WASTE, EXPLOSIVES, AMMUNITION, SHOCK SENSITIVE MATERIALS, INDUSTRIAL COMPRESSED GAS CYLINDERS, MEDICAL WASTE (NEEDLES, SHARPS, SYRINGES).

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RESIDENCY WITH YOUR AUBURN HILLS ADDRESS.





HHW Collection Summary

13040 MERRIMAN ROAD, SUITE 200
LIVONIA, MICHIGAN 48150-1816
734.437.9650 (P) • 734.437.9651 (F)

CITY OF AUBURN HILLS

Collection Date	May 13, 2023
# of Vehicles	?
Event Location	Auburn Hills DPW

Type of Material	# of Containers	Container Size & Type	Total Weight	Unit	Treatment Category*
Flammable Liquid	1	55 Gal Drum	469	lbs	ER
Oil Based Paint	4	Cubic Yard	2,410	lbs	ER
Latex Paint	0	Latex Toter	0	lbs	RC
Aerosol Cans	1	Cubic Yard	417	lbs	ER
Acidic Products	1	55 Gal Drum	163	lbs	WT
Caustic/Basic Products	1	55 Gal Drum	189	lbs	WT
Oxidizer	1	55 Gal Drum	47	lbs	ST
Toxic Products	7	Cubic Yard	2,638	lbs	ST
Pesticides	2	Cubic Yard	756	lbs	ST/DI
Oil/Antifreeze	3	Tote	2,456	lbs	RC
Propane/Fire Extinguishers	1	Crate	608	lbs	RC
Expired Medicines	1	55 Gal Drum	95	lbs	ST/DI
Medical Waste Sharps	1	55 Gal Drum	32	lbs	AUTOCLAVE
Asbestos	0	55 Gal Drum	0	lbs	RC/LF
Reactives	2	5 Gallon Pail	8	lbs	DI
Electronic Equipment	21	Pallet	10,590	lbs	RC
Household Batteries	3	55 Gal Drum	2,001	lbs	RC
Reactive Lithium Batteries	1	5 Gallon Pail	18	lbs	RC
Fluorescent Lamps	1	Pallet	698	lbs	RC
Mercury Devices	1	5 Gallon Pail	5	lbs	RC
PCB Ballasts	0	55 Gal Drum	0	lbs	LF
Total Weight for this Collection			23,600	lbs	

*Treatment Categories

RC = Recycling · ST = Stabilization · ER = Energy Recovery · DI = Destructive Incineration · LF = Landfill

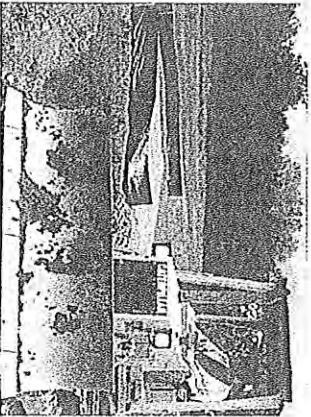
EXHIBIT L

What are my responsibilities?

Some of the activities you will need to manage, depending on the slope and nature of your site, include, but are not limited to the following:

- Install or maintain a temporary silt fence barrier or sod filter strip around your lot.

A silt fence is a black, woven plastic material with wooden stakes. The fence should be trenched 6 inches into the ground and will stop muddy runoff water and filter out the soil. Using sod to filter (at least 25' wide) where runoff water leaves your property, may be acceptable for your area. These controls need to remain in place until final vegetation is established. If removed for other work projects, they will need to be reinstalled at the end of each day.



Silt fencing on-site

- Establish cover as quickly as possible. If the timing, budget or season is not appropriate for seeding or sod, you will need to install additional controls, such as mulch or other vegetative material, to prevent soil loss from your lot.

- Redirect your downspout so rain water runs away from the bare soil on your lot. Use a flexible plastic pipe to direct water gently away from bare soil to avoid it washing away.

What if I do not maintain my controls?

You will get a letter from WRC saying that you are not in compliance and you have five days to fix the items listed. If they are not corrected, you could be subject to one or all of the following: a fine of \$2,500 to \$25,000 a day, the cost of WRC installing the necessary controls, or a stop work order and/or other legal action to get the site into compliance.

How do I close the permit?

When you believe that all permanent vegetation is in place (90% growth, 1 inch tall on every square foot of disturbance), you can request a final completion inspection.

Are there any additional fees (renewals)?

If the site remains permitted for more than the duration requested on the application, you will need to pay renewal fees in three-month increments until it has final vegetation.

FOR ADDITIONAL INFORMATION

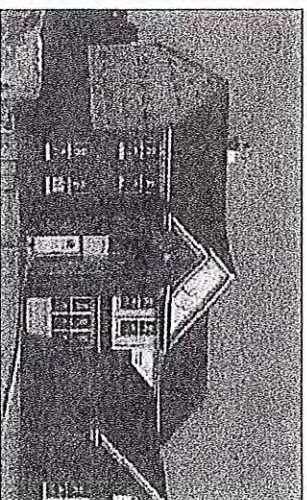
- www.oakgov.com/water (Choose "Permits, Applications & Forms" then "Soil Erosion")
- www.michigan.gov/deg (Choose "Land", then "Soil Erosion and Sedimentation Control")
- Michigan Dept of Environmental Quality (Soil Erosion and Sedimentation Control) Warren Office - Phone (586) 753-3718



WATER RESOURCES COMMISSIONER

Jim Nash

NEW HOMEOWNER'S GUIDE TO SOIL EROSION CONTROL



**Oakland County
Water Resources Commissioner**

**Soil Erosion and
Sedimentation Control Unit
(248) 858-5389**

NEW HOMEOWNER'S GUIDE TO SOIL EROSION CONTROL

As the proud owner of a new home, establishing a lawn and landscaping are likely two of the many items on your growing "to do" list.

New Homeowner TO DO List:

- ✓ Buy furniture
- ✓ Unpack
- ✓ Fix up bedroom
- ✓ Control Soil Erosion
- ✓ Plant trees & shrubs
- ✓ Establish lawn

If your yard does not have a lawn and landscaping, there may be some important items to keep in mind to prevent soil and debris from leaving your property. This will involve managing some activities on your site and making sure that all proper controls are in place.

You will need to take a look around your lot to see what kind of soil erosion controls are already in place or needed, determine current drainage patterns and establish a timeline for putting in your lawn and landscaping.

Why is this important?

Soil Erosion is a major contributor to pollution in our waterways. Uncontrolled runoff during weather events, i.e., wind and rain, can move the soil off-site and into our lakes and streams. The dirt may move off-site through ditches, pipes or across the property and be deposited into a creek, stream or wetland.

Sediment can clog pipes and leave streets a muddy mess. It can destroy natural areas, wetlands, creeks and harm the plants and creatures living there. Residual sediment can damage habitat for insects and fish.



Silted waterway

The State of Michigan enacted legislation to address this problem (Part 91 of Public Act 451). The Water Resources Commissioner's office has the authority to enforce the Soil Erosion program for many Oakland County communities. The State of Michigan oversees all local programs and referrals, special concerns and related pollution incidents.

Soil Erosion Permit

When construction of your home began, the builder was required to obtain a permit or a waiver from Oakland County to protect the environment from soil erosion.

As a new homeowner, you now have that responsibility until your lot has permanent vegetation and landscaping in place.

If your home had a permit as part of your property purchase, you should have received a permit transfer form making it your responsibility to maintain the control measures and ensure they function properly, according to the plan your builder submitted. If your home had a waiver, you still must maintain or install controls to stop soil from eroding off your site.

Permit Transfer -How Does This Happen?

To transfer a permit, the landowner or builder (initial permit holder) and new homeowner must complete a Permit Transfer Information Form.

The form then needs to be submitted to the Water Resources Commissioner (WRC), Soil Erosion Unit, located at One Public Works Drive (Building 95 West), Waterford, MI 48328-1907. A permit cannot be transferred if there are any outstanding balances or violations against the permit.

EXHIBIT M

THE CITY OF AUBURN HILLS IS PROUD TO PRESENT THE

2023 Beautification AWARDS

The City of Auburn Hills invites you to nominate a property worthy of a 2023 Beautification Award. You may nominate yourself or a deserving neighbor.

Nominations may be submitted in one of two ways:

1. Email the property address and the owner's name (if known) to beautification@auburnhills.org
2. Clip and mail the nomination form below to:

City of Auburn Hills - Beautification Awards
1827 N. Squirrel Road
Auburn Hills, MI 48326

****NOMINATIONS ARE DUE BY JULY 1, 2023****

2023 Beautification
AWARDS

NAME OF HOMEOWNER (IF KNOWN)

ADDRESS OF NOMINATED PROPERTY

THE CITY OF AUBURN HILLS IS PROUD TO PRESENT THE

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****NOMINATIONS ARE DUE BY JULY 1, 2022****

2022 Beautification
AWARDS

NAME OF HOMEOWNER (IF KNOWN)

ADDRESS OF NOMINATED PROPERTY

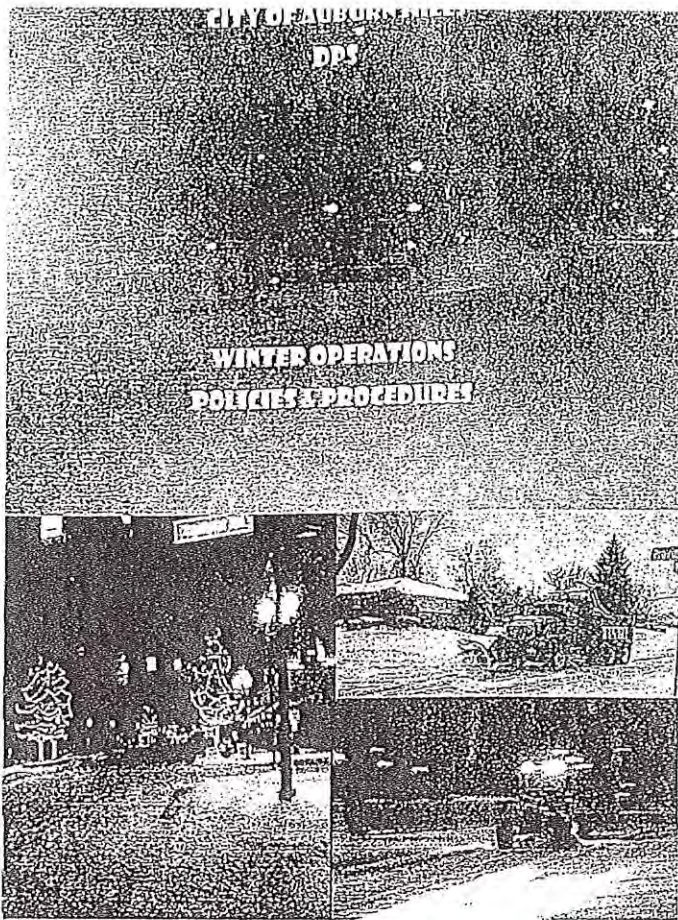
EXHIBIT N



EXHIBIT O



EXHIBIT P



SECTION 3

- MAJOR**
- H. Squirrel
 - Featherstone
 - Chrysler Drive (east)
 - Chrysler Drive (west)
 - Hamlin
 - West Entrance
 - Executive Hills
 - Doris
 - Centre
 - Takata



- MAJOR**
- Great Lakes Crossing
 - Hamlin
 - Giddings
 - Taylor
 - Collier (Jaslyn to Baldwin)
 - Lake Angelus (paved portion)
 - Pacific
 - North Atlantic
 - Continental



- RESIDENTIAL**
- 100' to 150'
 - 150' to 200'
 - 200' to 250'
 - 250' to 300'
 - 300' to 350'
 - 350' to 400'
 - 400' to 450'
 - 450' to 500'
 - 500' to 550'
 - 550' to 600'
 - 600' to 650'
 - 650' to 700'
 - 700' to 750'
 - 750' to 800'
 - 800' to 850'
 - 850' to 900'
 - 900' to 950'
 - 950' to 1000'

INDUSTRIAL

COMMERCIAL

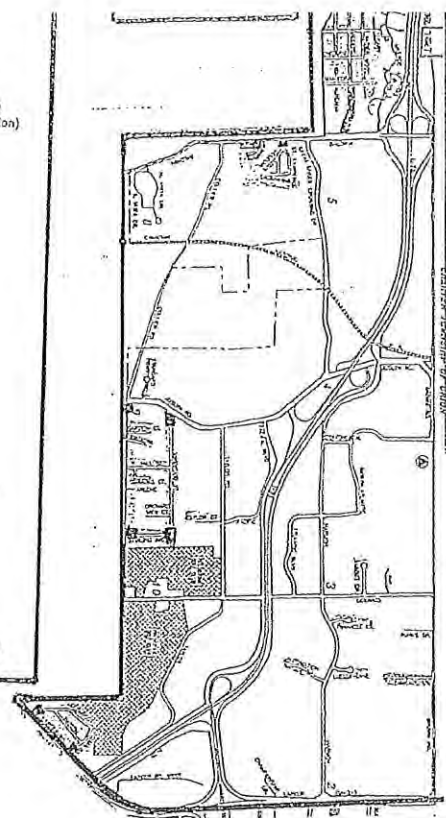
RECREATION

UNIVERSITY

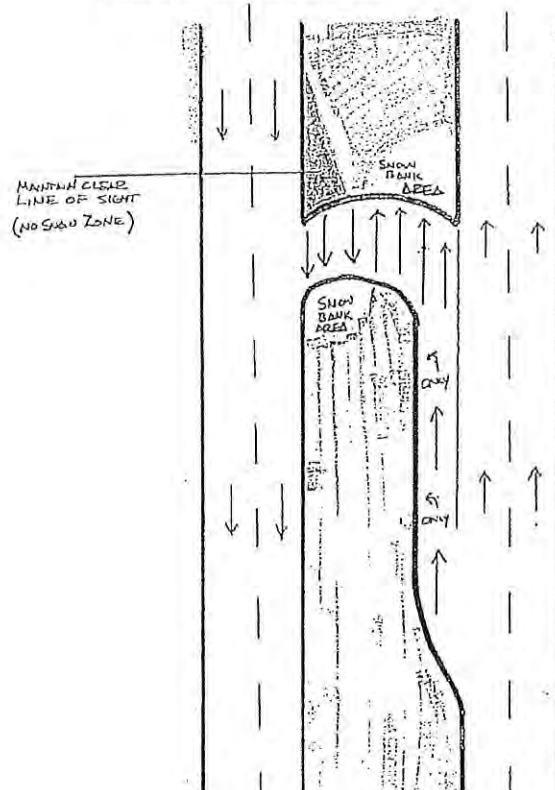
GOVERNMENT

RELIGIOUS

OTHER



PROPER TURN AROUND PLOWING PATTERN



Winter Operations Policy and Procedures CITY OF AUBURN HILLS

Purpose

The City of Auburn Hills DPS strives to be productive in maintaining safe roadways for the traveling public. The procedures listed below are to be used during snow and ice events. The nature of snow and ice control is constantly evolving and changes in operation can be affected by many variables. Comments and suggestions are welcome, post event, to critique and improve the DPS strategy. The individual Manager or Crew Leader assigned to the event must be fully supported by all DPS staff, communicating with him to ensure an efficient, successful operation.

SAFETY

1. Safety is the utmost concern and must be your first priority. Extreme caution should be exercised at all times to protect yourself, fellow employees, the public, and property.
2. As a CDL licensed driver and per DPS policy, ALL vehicles require a pre-trip and post trip inspection.
3. A pre-trip under hood inspection is required to verify proper fluid levels on all vehicles assigned to snow and ice control operations.

LARGE DUMP AND HEAVY EQUIPMENT FUELING AND CLEANING

1. All large dump trucks and heavy equipment should have a FULL tank of fuel pre-trip. If not, inform your Snow Event Crew Leader.
2. All large dump trucks and heavy equipment used in winter operations **MUST BE RE-FUELED** upon completion of your use of the equipment. This applies whether you have been using the truck for 10 minutes or 10 hours. As ALL snow removal equipment is considered emergency equipment, this policy is essential to support our ability to respond quickly when snow events occur.
3. The cab of large dump trucks must be emptied of all personal clothing, effects and litter after each use.
4. The washing of vehicles will be determined by the Snow Event Crew Leader as your shift ends.
5. Efforts to plan salt usage should be in a manner that there is little to no salt remaining in the dump box. Remaining pre-wet liquids do not require draining. Check with the Snow Event Crew Leader when your shift ends to determine if emptying salt is required.

LARGE DUMP EQUIPMENT

1. Vehicle inventory must include:
 - A. Fire Extinguisher (in cab)
 - B. Emergency Triangle kit
 - C. Shovel (placed in shovel holder)
 - D. Small sledge hammer
2. Front snow plows shall not be installed for use until approved by the Snow Event Crew

Page 1 of 7

Leader. As a general rule of thumb, snow accumulations at or above 6 inches require the use of front plows.

3. Larger capacity (tandem axle) trucks shall be assigned to the appropriate southern sections of the City.

EQUIPMENT PROBLEMS

1. In order to maintain snow and ice equipment at optimum operating levels, any problems found while the equipment is in your care **MUST BE REPORTED** via RTA **immediately upon returning the vehicle to the DPS garage.**
2. The computer terminal for the RTA program is located in the DPS garage break room. If you are not familiar with how to use this system, see the Snow Event Crew Leader or Fleet Department staff for assistance.
3. Verbally reporting to the Snow Event Crew Leader, your Department Manager, or the Fleet Technicians is **not** an acceptable substitute for RTA reporting.
4. If a vehicle or equipment is in your opinion, no longer safe to operate, **OUT OF SERVICE** tags are located next to the break room time clock.
 - A. Fill out the OUT OF SERVICE TAGS and attach to steering wheel of vehicle. Briefly include what is wrong, date and your name.
 - B. Report the problem via RTA program.
 - C. Notify the Snow Event Crew Leader the vehicle is out of service.

EQUIPMENT DAMAGE/ACCIDENTS

1. Any vehicle accident or damage must be reported immediately to the Snow Event Crew Leader. Accidents involving a City vehicle and a motorist must be called into Police Dispatch and the Snow Event Crew Leader.
2. Equipment Damage needs to be reported via RTA **immediately upon returning the vehicle to the DPS garage.** The Snow Event Crew Leader must be informed and a written incident report may be required depending on circumstances of the damage.

COMMUNICATION

Because snow and ice control is typically a full-scale effort by the DPS, often involving all staff from all divisions, communication is essential. The LOCAL GOVERNMENT RADIO CHANNEL is the ONLY communication tool that is to be used. This allows the Snow Event Crew Leader and all others concerned with the effort to completely understand the progress of the operation. Professional, to-the-point messages reporting the status of your work (as well as any problems) is extremely valuable information to everyone involved.

As with all channels of the two-way radio communication system in the City, the Local Government Channel is recorded and datalime stamped. This information will be reviewed post-event to assist the DPS Managers and Crew Leaders in logging event activities and critiquing the operation.

Radio Courtesy Information: It is very helpful to the Snow Event Crew Leader and all others assigned to the winter operation if you notify via radio if you are going to be out of your truck for a short period of time such as break period, leaving your section to refuel with salt, etc. Please remember to broadcast when you are returning to winter operations.

Page 2 of 7

PRIVATE PROPERTY DAMAGE

1. Any private property damage such as mailbox or lawn damage must be called in immediately via the two-way radio to the Snow Event Crew Leader. The person calling in must state the nature of damage and street name where damage occurred.
2. DPS personnel should be aware that property damage during a snow event may happen and the image we project by approaching a business or homeowner regarding damages verses having the property owner call the DPS, the Police, or City Manager's office is the difference between a negative and positive image of the City. Immediate and proper reporting of any property damage is essential to the DPS image.

SALT AND LIQUID LOADING

1. The truck operator is responsible for loading his vehicle with salt and liquid de-icing materials.
2. A log sheet located in the loader must be filled out indicating truck #, employee #, section #, yards of salt loaded. One loader bucket = 3.5 yards of salt.
3. Upon completion of loading salt and liquid, BEFORE leaving yard, you must call in via Local Government Radio Channel:

Truck number ____ Leaving DPS Yard Loaded for Section ____.

This procedure shall be repeated for each additional load of salt and liquid taken.

4. Refer to the loading guidelines located in the snow route book. The booklet can be found in the cab of each dump truck. Overloading a vehicle has many hidden costs; excess wear and tear on the truck and roads, over-taxing the brake system, unstable maneuvering, increased stopping distance, etc. Further, an overloaded truck involved in an accident subjects the Driver and City to potential liability issues. **It is the Drivers responsibility to make sure his vehicle is not overloaded.**

GENERAL PLOWING AND SALTING GUIDELINES:

It is difficult to put into writing a "set" program that will apply to all winter storms. Many factors can affect how the DPS goes about restoring the roads to safe driving conditions. This can change by the storm, or by the hour as conditions dictate. Your Snow Event Crew Leader will notify you of the proper snow removal techniques and de-icing procedures for a particular snow event.

Page 3 of 7

STANDARD WINTER OPERATIONS PROCEDURES:

The following procedures shall be followed unless otherwise directed by the Snow Event Crew Leader.

1. Check in with the Snow Event Crew Leader upon clocking in. If he is not in the DPS garage when reporting for duty, call him via Local Government radio channel for your work assignment. If during the course of your normal workday you are assigned to work a snow event, contact the Snow Event Crew Leader for your assignment.
2. The Snow Event Crew Leader will assign truck/equipment and section for you to work. LOG this information on the ASSIGNMENT BOARD located near the time clock in the DPS garage. You should also take notice of others assigned in your work area to aid in working in your section as a team.
3. The Snow Event Crew Leader will inform you of the rate of salt per mile and gallons of liquid per ton to be applied. This information will also be posted on the assignment board. In the event this information is not posted, or you are the first to arrive to begin winter operations the STANDARD APPLICATION RATE FOR SALT IS 400 LBS PER LANE MILE AND PRE-WET APPLICATION RATE IS 16 GALLONS PER TON.
4. Perform pre-trip vehicle inspection and under hood fluid check.
5. Check gate opening for proper setting and open the valve for the pre-wet system. (This valve is kept closed when the vehicle is stored.)
6. Load with salt and liquid as needed for the assigned area.
7. The Snow Event Crew Leader will make every effort to assign a minimum of 2 dump trucks and one pickup to work each section when snow plowing operations are needed. The size of the storm may alter this level of assignment with the exception of Section 3 requiring 2 dump trucks for all snow events due to number of lane miles of major roads. The staff assigned to each section should communicate their efforts amongst each other in order to clear roads in an efficient manner.
8. Dump trucks should plow in tandem where practical to clear multi-lane roads.
9. All roads must be plowed curb-to-curb to remove as much moisture from the road as possible before salting begins.
10. SALTING during a continuous storm event shall be limited to hills, bridges and interchanges. If the snow event is significant in accumulation, salting shall be discontinued and concentration on snow removal emphasized. The Snow Event Crew Leader will advise the truck operator when LIMITED and NO SALT operations are required.
11. PRE-WET liquid brine application shall always accompany the application of salt. The standard application rate is 16 gallons per ton. (Trucks with limited liquid capacity will use the full tank of liquid for a full load of salt i.e.: 50 gallon total liquid capacity on a 5 yard load of salt = 10

Page 4 of 7

gallons per ton). The Truck Operator is responsible for ensuring there is enough liquid on board the truck to properly pre-wet the amount of salt being carried.

12. **SALTING** at temperatures below 20 degrees will result in **LIQUID CALCIUM CHLORIDE** being added to the liquid brine mixture. The mixture ratio of brine and calcium will be determined by the Snow Event Crew Leader. Typically, the add rate for calcium is 15%, with extreme cold temps as high as 20%.
13. Unless instructed otherwise by the Snow Event Crew Leader, liquid chemicals shall not be dumped or poured on top of a load of salt in the dump body; pre wetting at the spinner is considered the most effective way to apply liquid de-icing products.
14. When plowing boulevard cross overs (turn arounds), snow must be banked in the median, not the roadway shoulder. Snow banks must not block the line of site at the cross over intersection and therefore cannot be banked on the outside radius to maintain safe site lines. Refer to diagram.
15. When plowing snow on a bridge deck, **SLOW DOWN. Do not push snow over the sides of the bridge onto traffic below.**
16. Where practical, trucks should not turn around in a residential driveway. Dead ends should be backed into and snow pushed **AWAY** from the dead end. Some dead ends and cul-de-sacs will require a pickup rather than a dump truck. The lead truck for the section should coordinate this work.
17. Cul-de-sacs should be plowed to the outer radius with care to keep fire hydrants, driveways and mailboxes accessible. Stock piling snow in the middle of the cul-de-sac is prohibited.
18. **Snow Operations shall occur in the following order:**
 - A. Major Roads Plowing
 - B. Major Roads Salting/Pre-wet application
 - ***Notify via radio moving to local roads
 - C. Local Roads PLOWING
 - D. Local Roads Salting/ Pre-wet application
 - ***CALL SNOW EVENT CREW LEADER FOR APPROVAL TO RESIDENTIAL
 - E. Residential PLOWING (always curb to curb)
 - F. Residential Salting/Pre-wet application at entrances to subdivisions only. OR as directed by Snow Event Crew Leader.
19. When completing a work area, reporting your work progress via the Local Government radio channel assists the Snow Event Crew Leader and other staff assigned to your work area of the progress being made in your assigned section (i.e.: "Completed Adams Ridge subdivision, starting residential dead-enders on S. Squirrel").
20. **FINAL INSPECTION** of the section shall be completed by a one of the truck operators for each Section. If you are the only one assigned to your section, final inspection is your responsibility. Report the final inspection via radio to your Snow Event Crew Leader.
21. Contact Snow Event Crew Leader via radio before leaving of your assigned Section, or moving to another Section to assist.

Page 5 of 7

22. All persons assigned to winter operations must monitor their own hours behind the wheel and report to the Snow Event Crew Leader if time limits are being approached.
22. **RETURN TO DPS-** On final return to DPS, dump trucks and heavy equipment:
 - a. Truck must be refueled
 - b. Shut off pre-wet tank valve
 - c. Check with Crew Leader regarding truck washing
 - d. Report any equipment problems via RTA
 - e. Write your time out on the Snow Event Board. Do not erase your name.
23. **DPS shut down at end of winter operation event:**
Crew Leader responsible for the following:
 - a. Reload trucks 457 and 458 with salt and fill liquid tanks
 - b. Loader from salt dome to DPS garage
 - c. Make sure brine and calcium pumps are off
 - d. Turn in Salt report from Leader
 - e. Turn in completed Snow Event Log Sheet(s)
 - f. Erase Snow Event Board
 - g. Lock gate
 - h. Secure building
 - i. Set alarm

RESIDENTIAL SALTING

1. Residential salting shall be limited to the first 100 feet into each residential street entrance. **REFER TO SECTION MAP.**
2. Any substantial hills within a residential area shall be salted. **REFER TO SECTION MAP.**
3. The school route thru the Bloomfield Orchards to the elementary school shall be salted. Salting is **NOT** required on non-school days or when school closings are ordered. **REFER TO SECTION MAP** for route detail.
4. The school route of Waukegan thru to Bloomfield Blvd servicing Avondale High School shall be salted. (classified as a major road). Salting is **NOT** required on non-school days or when school closings are ordered.
5. The salt and pre-wet application rates are the same as the Major and Local Streets.
6. The DPS will monitor the residential streets over the next 24 hours taking weather conditions and vehicle traffic into consideration before additional salt is applied.
7. Salting of the entire residential areas shall be permitted only by the authorization of the Snow Event Crew Leader or Management.

Page 6 of 7

TRUCK ASSIGNMENT (subject to change)

- 461- Section 1 as primary assigned dump truck.
- 457- Always filled with salt/liquid and ready as first responder
- 458- Always filled with salt/liquid and ready as first responder
- Trucks 457, 458, 454 setting "B" on the spreader control allows for 800 pounds per lane mile for multi-lane salting applications. All other positions (1-7 & 9+) are programmed for 400 pounds per lane mile.
- Tandem axle dump trucks shall be assigned to sections 3 & 4 (south end of City).
- Single axle dump trucks shall be assigned to sections 1 & 2 (north end of City).

NON LIVE BOTTOM DUMP TRUCKS

Trucks 461 and 454 are non-live bottom dump trucks. The use of these trucks for salting operations requires the dump body to be raised to feed salt to the auger. Extreme care is needed to insure overhead clearance from obstructions such as tree limbs and overhead utility lines. If you are not experienced operating this type of salt spreading equipment, seek training from your Crew Leader.

In the event that spoils or other non-winter materials need to be transported, trucks 461 and 454 are to be used for this purpose during the winter operations months. The truck operator is responsible for restoring the truck back to winter operations as soon as non-winter material transportation is completed. In the event that more than two trucks are needed for non-winter material transport (i.e.: major water main break), additional trucks can be converted from winter operations. Always consult with your Crew Leader before breaking down live bottom (RDS) bodied dump trucks.

- Removal of salt spinners, augers, etc. is the assigned operator's responsibility.
- Restoration to winter operation by reinstalling any equipment removed and cleaning the dump body of debris is the assigned operator's responsibility **PRIOR** to their shift ending.
- **DO NOT** leave clevis pins and cotter pins on the floor during removal of equipment. **REINSTALL** these items in the hole you removed them from so these items are not lost.

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CITY OF AUBURN HILLS MUNICIPAL GROUNDS WINTER MAINTENANCE POLICY

PURPOSE

This policy is intended to provide guidelines for snow and ice removal from municipal lots and walks.

This policy will provide:

1. list of parking lots and walks
2. parking lot and walkway priority according to day of week and time of day
3. maintenance practices according to weather conditions

GENERAL OPERATIONS

Parking lots and walks shall be cleared and treated with salt or ice melt to reach desired results. If snow has accumulated 1 inch or more on parking lots they must be plowed before applying salt. If the outside temperature is 20 degrees or higher salt should be applied at a rate of .05 pounds per square foot. If outside temperature falls below 20 degrees, salt should be treated with chloride and then applied at .05 pounds per square foot. Lots shall be cleared curb to curb making every effort to avoid piling snow on walks, handicap ramps, and at drive entrances. Truck drivers should not pile snow in front of directional signs or fire hydrants. When salting lots care must be taken not to salt too close to buildings, do not bounce salt off buildings or doors.

SIDEWALKS

If more than 1/2 inch of snow has accumulated on walk ways they must be cleared before applying ice melt. All ice accumulations will be treated with ice melt. Care shall be taken when salting walks to prevent excessive accumulation which is tracked into buildings. When brooming or snow blowing be aware where snow is discharged to prevent contact with building doors, windows, siding and signs. Tight areas may require hand work.

PUBLIC SAFETY GREEN ROOF PLAZA

The Public Safety Green Roof Plaza is equipped with electric de-icing equipment, **NO SALT OR DE-ICING CHEMICALS ARE TO BE USED.** Large snowfalls may require manual clearing to avoid long melting times and excessive electrical power consumption. In the event of manual snow removal, small snow blowers or hand shovels must be used, no truck or tractor sized equipment will be permitted.

CITY OF AUBURN HILLS MUNICIPAL LOTS AND WALKS

Civic Center Campus lots and walks
Administration- north lot/ south lot
Ball field
Community Center
Community Development- north lot/ south lot/ overflow lot
Library
Old Community center
Public Safety Building (PSB)
Seylum Drive
Tennis court

In House-Municipal lots and walks

Cemetery
Fire Station #1
Fire Station #3
Golf Course
Hawkwoods
Manitoba
Rail trail
Riverside
Riverwoods

Priority

Priority 1 lots shall be cleared and salted first, every attempt should be made to place priority 1 lots on a 2-3 hour rotation during an on going weather event.

Priority 2 lots can be cleared after all priority 1 lots have been completed.

Priority 1
Public Safety Building
Fire Station #1
Fire Station #3
Seylum Drive

Priority 2
All lots not priority 1

Priority 1 - Monday-Friday 4am thru normal business hours
Administration- north/ south
Community Center
Community Development- north/south

Library

Priority 2
Community Development overflow lot
Tennis court lot
Old Community Center
All City parks
Golf Course

While PSB and all fire halls are always classified as priority 1 it is important to reprioritize Civic Center Campus as priority 1 at 4am Monday - Friday to have lots and walks cleared before opening for business. While City offices are open they shall be classified as Priority 1. Special weekend and after hours activities will automatically reprioritize any affected lots and walks to priority 1.

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TIPS FOR SNOW PLOWING/SALTING AT AND NEAR RAILROAD CROSSINGS

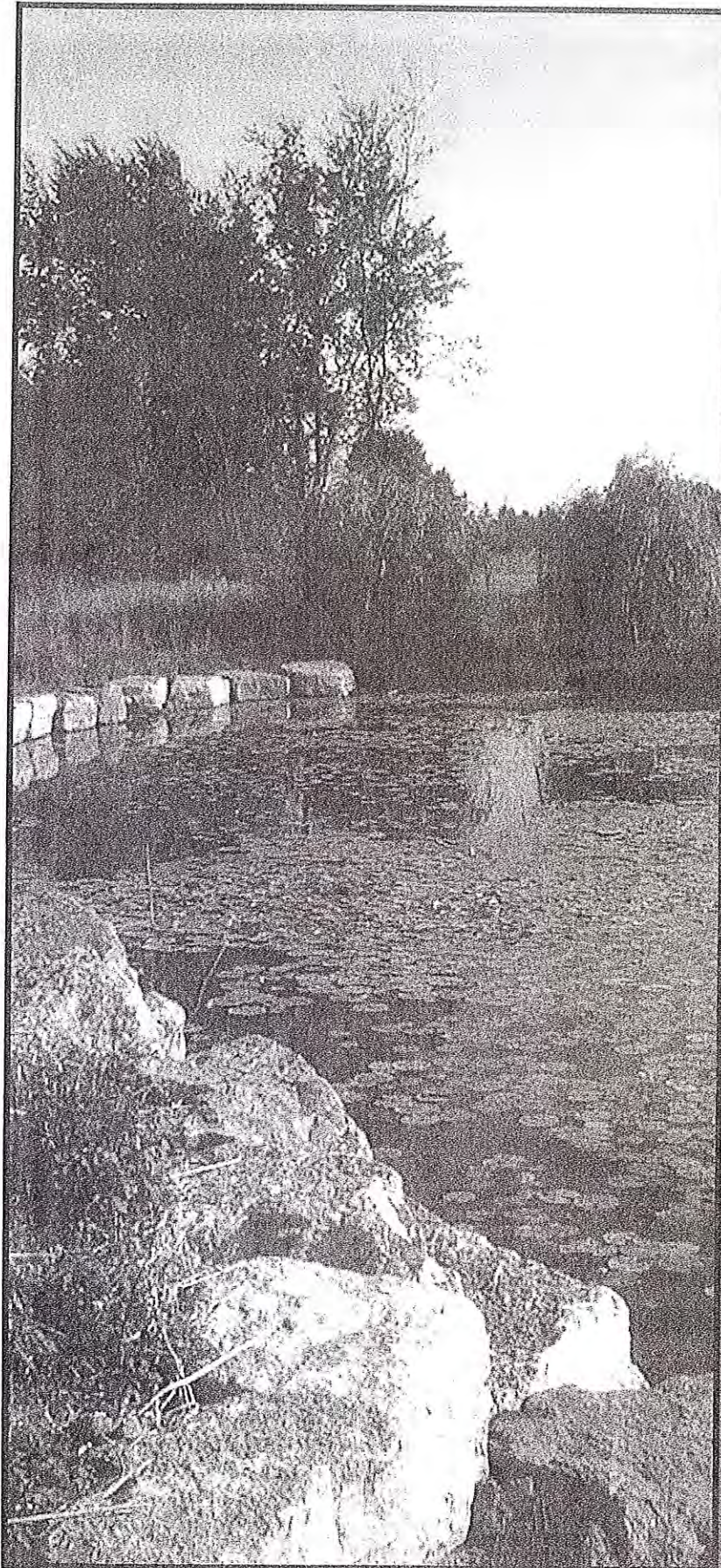
- ❖ Avoid piling snow in front of railroad crossing warning devices, in areas that could block motorist view of approaching trains and under railroad gate mechanisms.
- ❖ Avoid piling snow in front of railroad bungalows/houses and railroad access roads parallel and adjacent to the tracks (railroads use these weekly/monthly to access their property & equipment).
- ❖ Reduce truck speeds when plowing around railroad crossings to help prevent damage to automatic warning devices (lights and gates) by the force of the snow hitting them.
- ❖ Apply salt or gravel to railroad crossing approaches to assist motorists in maintaining adequate stopping distances. When possible, clear-off the railroad pavement markings on the roadway approaches.
- ❖ Never dump salt directly on railroad crossings. Salt causes circuitry wiring to short out, causing malfunctions to the lights and gates.
- ❖ Raise snowplow blades slightly when plowing over railroad tracks to avoid catching railroad materials with the snowplow blade.



TIPS FOR SNOW PLOWING/SALTING AT AND NEAR RAILROAD CROSSINGS

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EXHIBIT Q



Maintaining Your Detention Basin



A Guidebook
for Private Owners in
Southeast Michigan

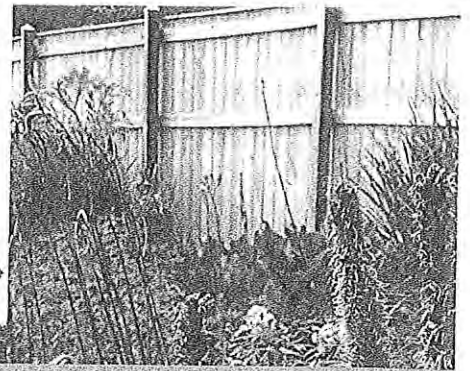
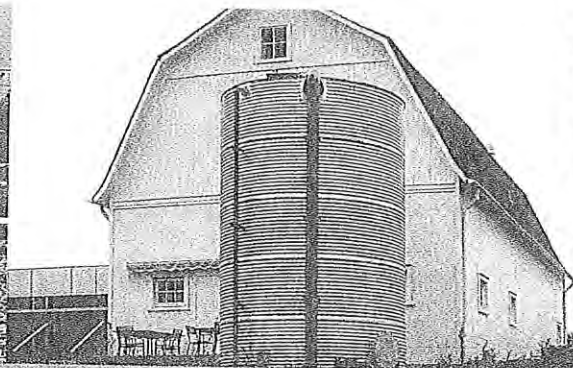
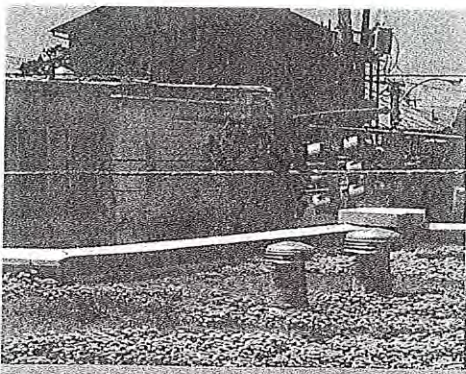


Alliance
of Rouge
Communities

OURS TO PROTECT

Working together, restoring the river

EXHIBIT R



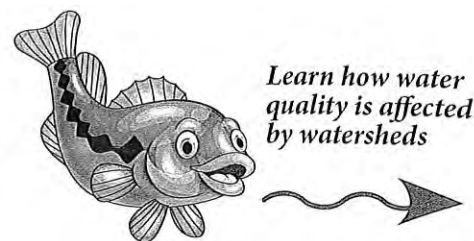
A Design Guide for Implementers and Reviewers

Low Impact Development Manual for Michigan



EXHIBIT S

How Water Quality Works



Learn how water quality is affected by watersheds

Water quality plays an important role in a healthy watershed and you can contribute to the solution, not the pollution! Clean water provides communities with drinking water, makes recreation like boating and fishing safe for the residents of Michigan and supports a healthy ecosystem for plants and wildlife.

Knowing how watersheds work is important because it allows us to understand that our actions have an impact on water quality. When rain and snow/ice melt travel across the land (watershed) and into storm drains, it is called stormwater or runoff. As this runoff travels, it picks up trash, animal waste, chemicals, sediments and dissolved substances along the way until it discharges into the nearest waterbody which has a negative affect on water quality.

Common types of pollution in stormwater runoff include sediment, nutrients, chemicals, bacteria and illicit discharges. In addition to stormwater runoff, water velocity can decrease water quality.

Sediment can be eroded soil from unprotected construction sites, eroding streambanks and shorelines and runoff from agricultural lands.

- Adding vegetative buffers along agricultural land or at the water's edge of your waterfront property can help slow runoff.



Nutrients include natural sources (organic debris), fertilizers, animal waste (pets, wildlife, and livestock) and sewage sources coming from failing septic systems or illegal discharges of sewage.

- Don't feed the ducks and geese because the concentration of droppings adds excess nutrients to the river.
- Fertilize your yard with slow-release fertilizer and sweep excess particles off paved surfaces back onto the lawn.



Chemicals can come from pesticides used on residential and agricultural lands, leaking vehicle fluids, road salt and the improper disposal of household chemicals.

- Change to a chemical alternative for cleaning, like peroxide or baking soda and vinegar, and dispose of

cleaning supplies, paints, oven cleaners, aerosol cans, etc. at a household hazardous waste collection event in your community.

- Use Michigan native plants in your yard which are naturally resistant to pests and diseases, eliminating the need for harmful pesticides.



Bacteria is another source of pollution in stormwater which comes from animal waste or human sewage sources.

- Always pick up after your pet, even in the winter, to prevent the bacteria from washing into drainage ditches and storm drains which go straight to the river and have a negative impact on water quality.
- If you have a septic tank on your property, have it inspected every 3 years and pumped out every 3-5 years.

Illicit discharges are any discharge to a storm drain or waterbody that contains polluting material, such as sediment, nutrients, oil, and bacteria.

- If you see someone dumping anything in the river or lake, on the side of the road or even down the storm drain on your street, report it to your community's pollution hotline.

Report Illegal Dumping	
Michigan's Pollution Alert System	800-292-4706
Macomb County	877-679-4337 or IDEP@macombcountymi.gov
Oakland County	248-858-0931
St. Clair County	277-504-SWIM
Washtenaw County	734-222-3800 or https://washtenaw.org/196/Report-an-Issue
Wayne County	888-223-2363

Water velocity is too much water, too quickly, which scours the streambed and banks adding to the sediment and recirculating the bacteria and chemicals in the river reducing water quality.

- Plant trees to provide a natural filter to reduce stormwater runoff, flooding and erosion.
- Disconnect downspouts around your home or business to slow runoff and reduce the amount of sediment entering the river.

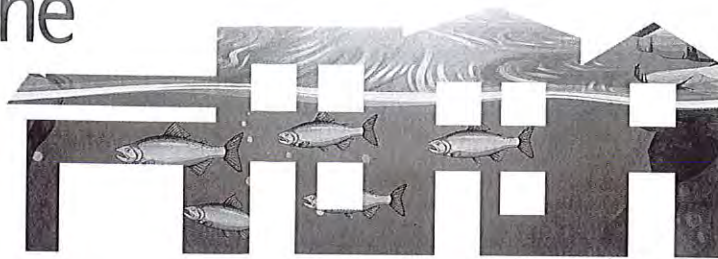


For more information on how to protect water quality, visit:

www.allianceofrougecommunities.com



have a business in the **ROUGE RIVER WATERSHED?**



learn how to protect water quality inside, outside & under your building



Working together, restoring the river

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. Every business in Michigan is in a watershed!

When rain and snow/ice melt travel across the land (watershed) and into storm drains, it is called stormwater or runoff. As this runoff travels, it picks up trash, animal waste, chemicals, sediments and dissolved substances along the way until it discharges into the nearest waterbody. Small streams (tributaries) join to form rivers and flow across sloping land, eventually flowing into a lake. Even if your business is not "next to the river," your actions still have an impact on the Rouge River watershed.

best management practices (BMPs) for businesses

Inside your building

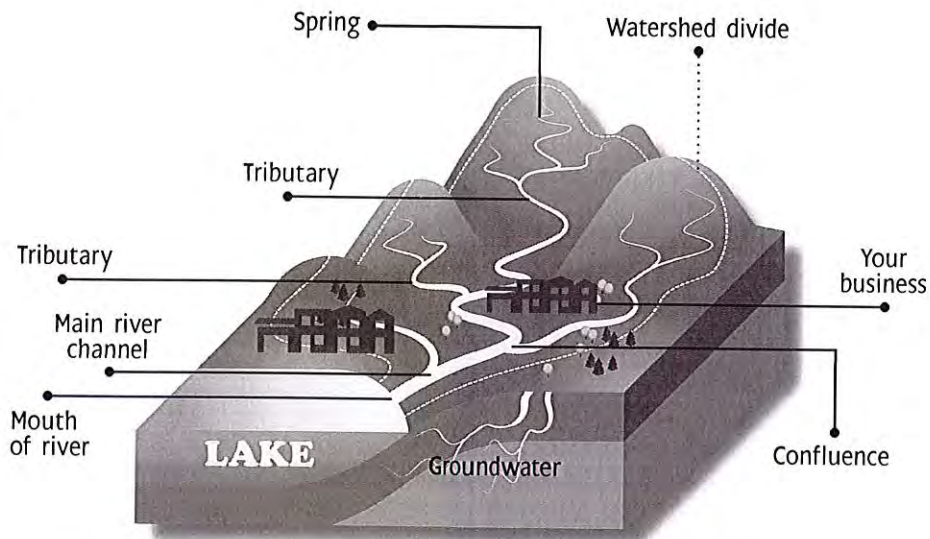
The way you use, dispose and store chemicals, batteries and other materials inside your building can influence water quality in the Rouge River.

Outside your building

Because stormwater enters streams and rivers through storm drains, the curbs, gutters, parking lots and ditches outside your building play an important role in the health of the Rouge River.

Under your building

Even things underneath your building that you can't see, like pipes that were changed with renovations or expansion, can affect the Rouge River.



How a watershed works: rain and melting snow travel by gravity within an area of land to a single body of water such as a creek, river, or lake. As it drains it picks up trash, animal waste, chemicals, sediments and dissolved substances around homes and businesses, which eventually goes right to a body of water!

adopting BMPs inside, outside and under your business can have a positive impact on your profits, customers, employees, wildlife and their habitat, and even the communities downstream!

www.allianceofrougecommunities.com

Find us on Facebook: @allianceofrougecommunities

BMPs Outside Your Building to Protect Water Quality

Pick up trash and litter around your property to prevent it from going into the storm drain and never dump waste into a storm drain or directly to a lake or river.

Never dispose of wash water, spent fluids or any materials in the storm drain, river or on paved surfaces.

Maintain suitable loading dock areas to prevent the potential for spills and leaks.

Inspect fuel and chemical storage tanks on your property regularly for leaks.



Clean up leaks or spills outside immediately with dry absorbent and dispose of properly; never wash it down the storm drain.



Keep dumpster areas clean and lids closed so items don't blow away. Inspect containers and waste disposal areas regularly for leaks and replace or repair immediately if found.

Clean paved surfaces routinely by sweeping parking lots to pick up trash and debris to reduce pollution reaching the river.

Do not hose down sidewalks or parking lots unless it is going to a grassy area where it can infiltrate into the ground.

Don't over-apply salt to sidewalks and parking lots in winter months. Excess salt can contribute substantially to increased chloride entering our waterways through storm drains.

Make sure wash water from pressure washing drains to the sanitary sewer not a storm drain.

Apply fertilizer on golf courses properly and store fertilizer in a covered area.

Rinse golf carts on grassy areas and make sure soap wash water drains to the sanitary sewer, not a storm drain.



Stencil "no dumping, drains to river" next to your storm drains so employees are aware.

Limit the use of herbicides, pesticides or fertilizers and never apply close to any watercourse. Always follow a product's label for proper use and application.

Instruct landscapers to mulch grass which serves as a natural fertilizer. Have them avoid blowing grass clippings and leaves into the street and parking lots to keep them out of the storm drains.

Sweep fertilizer or grass clippings from paved surfaces back onto the turf area.

Clean vehicles at a commercial car/truck wash station if you don't have one on your property. They should not be washed onsite where water would go down a storm drain.

Consider adding vegetative buffers to slow stormwater runoff if your property is along the Rouge River.



Plant rain gardens around your building. Their deep roots slow runoff and provide filtration before stormwater enters the river.



Give back to the community your business is in and improve morale by having employees volunteer for river cleanup events or work days.

Maintaining Your Fleet

- Leaky vehicles and construction machinery can easily cause stream contamination by tracking fluids and other pollutants off site, eventually draining into a catch basin.
- You can prevent vehicle fluids from entering local bodies of water by ensuring that your vehicles and equipment are properly maintained and in good working condition.
- Proper disposal of chemicals and other waste is critical to the health of streams and rivers. Solid and liquid waste materials are not meant to be dumped in storm drains, catch basins or ditches. Remember that storm drains catch basins, and ditches are made for storm water only!



City of
AUBURN HILLS

Honoring The Past. Building The Future.

1827 North Squirrel Road

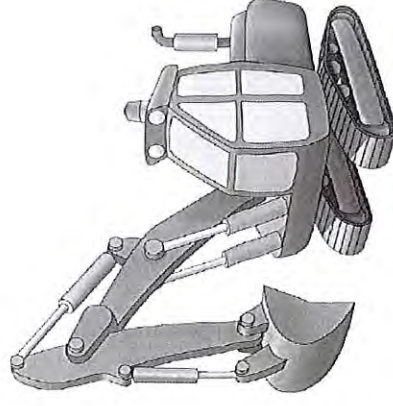
Auburn Hills, MI 48326

Phone: 248-364-6900

Fax: 248-364-6939

A Contractor's Guide to

STORM WATER POLLUTION PREVENTION



09
SEP

**REELS BY THE RIVERSIDE:
GRANDPARENTS NIGHT**

DUSK | KNIGHT AMPHITHEATER

It's Grandparents Night! Children and their Grandparent(s) are invited to catch a showing of Cinderella (2021) under the stars in celebration of Grandparents Day. Each child will receive a movie-related giveaway. No grandparents? No problem! All families are welcome! Sponsored by the Auburn Hills DDA and Department of Recreation and Senior Services.

22
SEP

SEPTEMBERFEST | 21+

6:00 - 10:00 PM | RIVERSIDE PARK

Come to Downtown Auburn Hills to get a taste of some of Southeastern Michigan's best craft beers, delicious food, and live entertainment, all for a great cause. Visit auburnhills.org/septemberfest for ticket information.

**Attendees MUST be 21+ and present physical picture identification to obtain event entry.*

04
OCT

**COMMUNITY HEALTH +
WELLNESS EXPO**

11:00AM-2:00 PM | COMMUNITY CENTER

Join us for the Annual Community Health and Wellness Expo! This community event offers free flu shots, courtesy of Alana's Foundation. Community partners include Rochester School of Nursing, VNA, Alana's Foundation, and Oakland University.

06
OCT

HALLOWEEN MOVIE NIGHT

DUSK | KNIGHT AMPHITHEATER

Join us in Downtown Auburn Hills to ring in the start of the spooky season with a showing of The House with a Clock in Its Walls (2018) at Knight Amphitheater in Riverside Park. A special giveaway will be offered to every child! The movie will start at dusk. Sponsored by the Auburn Hills DDA.

07
OCT

FALL FESTIVAL IN THE WOODS

11:00AM-3:00PM | HAWK WOODS PARK

#449003 | \$2.00

Enjoy the outdoors this fall and try some great hands-on nature activities for kids; take a hayride, make crafts, and enjoy live music, Free cider and more! Registration is required, registration deadline 9/27. Call for more information.

28
OCT

SPOOKTACULAR

12:00-2:00 PM | DOWNTOWN

Come celebrate the spookiest of holidays in Downtown Auburn Hills and Trick-or-Treat with our Downtown Merchants along Auburn Road. Children 12 years/under with their families are welcome to dress up, meet some fun characters, and get treated. Registration is required.

04
NOV

DIWALI FESTIVAL OF LIGHTS

5:00-7:00 PM | COMMUNITY CENTER |

#449004

Celebrate and learn about Diwali at our 4th annual Diwali Festival of Lights. Create a craft, enjoy a dance performance, and more. All are welcome and encouraged to come! Registration required, registration deadline 10/25/2023.

01
DEC

30TH ANNUAL TREE LIGHTING

6:00-9:00 PM | DOWNTOWN

A family fun event featuring the arrival of Santa Claus, Mrs Claus, and the lighting of our downtown Christmas Tree with the Mayor.

15
DEC

WINTER SOLSTICE LANTERN WALK

6:00-9:00 PM | HAWK WOODS PARK & CAMPGROUND | #449005

Celebrate the solstice with a quiet walk through the lantern-lit trails, crafts, a crackling fire, a solstice project and warm drinks. Registration required, registration deadline 12/05.

Questions about event registration? Call (248) 370-9353.

SUMMER HAPPENINGS

08
APR

BUNNY BASH

12:00 - 2:00 PM | THE DEN - DOWNTOWN AUBURN HILLS

Our annual Egg Hunt is taking a hiatus this year. However, Downtown Auburn Hills will host an opportunity for children to meet the Easter Bunny. Get your photo taken with the Easter Bunny, and bring home a gift of prize-filled eggs and a take-home craft. This is a free event for children 12 and under and their families.

28
APR

24TH ANNUAL ARBOR DAY

1:00 - 2:00 PM | LOCATION TBD

Join fellow neighbors and City Officials in celebrating trees in urban environments and Auburn Hills' Tree City USA status on this day as we plant a symbolic tree in recognition of our 24th Annual Arbor Day.

26
MAY

SEMI-ANNUAL AMERICAN RED CROSS BLOOD DRIVE

1:00 - 7:00 PM | COMMUNITY CENTER

Donating blood can save a life! Through your generosity, someone's life will be changed and there is no better feeling than knowing you've helped someone. All it will cost you is an hour or so of your time. Schedule your appointment by calling 1-800-RED-CROSS (1-800-733-2767) or sign up online at <http://www.redcrossblood.org/make-donation>

02
JUN

2ND ANNUAL PREPADDLEBREWZA

6:00 - 9:00 PM | BLUE SKIES BREWERY - AUBURN HILLS

Join us for our second annual PREPADDLEBREWZA, the official pre-party of Paddlepalooza! Tickets include all-you-can-eat pizza from Larco Bros. Pizzeria, one craft beer or soda from Blue Skies Brewery-Auburn Hills, giveaways, and a donation to the Clinton River Watershed Council. CRWC is a non-profit organization dedicated to protecting, enhancing and celebrating the Clinton River, its watershed and Lake St. Clair.

03
JUN

15TH ANNUAL PADDLEPALOOZA

CHECK-IN BEGINS AT 7:00 AM | RIVERSIDE PARK

The 15th Annual Paddlepalooza kayak/canoe race and river event is co-sponsored by the City of Auburn Hills and the City of Rochester Hills. The event will take place on an eight-mile stretch of the Clinton River, beginning at Riverside Park in downtown Auburn Hills and ending at the Rivercrest Banquet Center at Avon and Livernois. Event includes a race for seasoned paddlers (canoe and kayak) or an untimed, adventure paddle for individuals to paddle the river. Both options include fun on the water, great scenery, wildlife and lots of fresh air! Pre-registration is advised, just visit auburnhills.org.

10
JUN

20TH ANNUAL RIVER DAY FISHING DERBY

CHECK-IN BEGINS AT 7:30 AM | RIVERSIDE PARK

The 20th Annual River Day Fishing Derby offers youths 16 and under a chance to fish and participate in this free annual contest on the banks of the Clinton River at Riverside Park. Raffle prizes plus River Day T-shirts for all the kids.

23
JUN

CITY COUNCIL ICE CREAM SOCIAL

6:00 - 7:00 PM | RIVERSIDE PARK

An annual tradition! Enjoy ice cream hand-scooped by your very own City Council members.

24
JUN

18TH ANNUAL SUMMERFEST

11:00 AM - 10:00 PM | DOWNTOWN AUBURN HILLS

Enjoy food, fun, live entertainment and more at the 18th annual Summerfest event on June 24 in downtown Auburn Hills. Join us for a fun-filled day for the whole family! Mark your calendar now and look for details on our website at auburnhills.org.

05
AUG

2ND ANNUAL FEED YOUR SOUL

4:00 - 7:00 PM | RIVERSIDE PARK

Downtown Auburn Hills is excited to host the second Annual Feed Your Soul event. With the sounds of music, soul food, and friends we sincerely hope you leave with a soul and stomach bursting with happiness!

16
SEP

CLINTON RIVER CLEAN-UP

9:00 AM - 12:00 PM | RIVER WOODS PARK

Why clean up? To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment. For more information, please e-mail skeenana@auburnhills.org.

22
SEP

SEPTEMBERFEST

6:00 - 10:00 PM | RIVERSIDE PARK

This 21+ event boasts beer tasting, live music, and food trucks. SeptemBEERfest hosts several local breweries with beer, cider, and seltzer. Tickets are required with all proceeds going to Neighborhood House.

DOWNTOWN SERIES

FRI
NIGHTS

FRIDAY NIGHT DOWNTOWN MUSIC SERIES

7:00 - 8:30 PM | RIVERSIDE PARK

Enjoy great outdoor music performances this summer at the Knight Amphitheater! Bring a lawn chair and/or blanket for the grass to enjoy the performances. Friday night concerts are held June 23 to August 25. Refreshments available from the many downtown establishments!

WED
IN JULY

CHILDREN'S MUSIC SERIES

10:00 - 11:00 AM | RIVERSIDE PARK

Singing songs about worms and pickles, having fun dancing and singing outside, learning to be healthy and kind through music is what kids will be doing in Auburn Hills this summer at the Children's Music Series! The Auburn Hills Downtown Development Authority is pleased to present the summer Children's Music Series. Every Wednesday in July from 10:00 - 11:00 AM at the Knight Amphitheater in Riverside Park. Opening performance is July 5th.

SAT
NIGHTS

REELS BY THE RIVERSIDE

DUSK | RIVERSIDE PARK | JUNE 10, JULY 15, AUGUST 12, SEPTEMBER 9 (GRANDPARENTS NIGHT)

Come enjoy a family friendly movie under the stars at Knight Amphitheater in Riverside Park. Don't forget to grab a blanket and your favorite snacks from one of our Downtown businesses. Movies begin at Dusk and happen once per month from June - September.

FRI
IN SEP

JAZZ & BLUES IN THE PARK

6:00 - 7:30 PM | RIVERSIDE PARK

Enjoy even more outdoor music performances this summer at the Knight Amphitheater! Bring a lawn chair and/or blanket for the grass to enjoy the performances. Jazz and Blues in the park takes place on Fridays in September on the 8th, 15th and 29th.



A RIVER DAY CELEBRATION

The fish were active and biting during the 20th Annual Auburn Hills River Day Fishing Derby, held on Saturday, June 10th, at Riverside Park. The 104 kids who participated in this year's had the opportunity to catch one or more of the 775 rainbow trout released into the Clinton River for this annual event.

Not long after the 8:00 am start time, participants began catching fish, some as large as 15 inches in length. This year's derby had a few new participants who could also reel in a few nice-sized trout during this year's river celebrations.

One of the main reasons so many kids caught so many trout that day was largely due to the generous donations made by Clinton Valley Trout Unlimited and the Detroit Area Steelheaders. Their generous donations enabled the City to double the amount of trout released for the day's event.

The derby ended with every kid walking away with a raffle prize that included tackle, new fishing poles (thanks to the donation from Buffalo Wild Wings Rochester Hills), tackle boxes, fishing nets, hats, tumblers, and Uncle Buck cheese puffs (thanks to the contribution from General Towing). Bass Pro Shops Outdoor World again donated over 60 slightly used rod and reel combos for this year's raffle.

If you missed the derby, there is still plenty of fish and time to test your fishing skills in Downtown Auburn Hills at Riverside Park and River Woods Park.

For those interested in becoming more involved in projects that improve fishing opportunities in and along the Clinton River or one of its many tributaries, please visit:

Clinton River Watershed Council
www.crw.org

Clinton Valley Trout Unlimited
www.clintonvalleytu.com

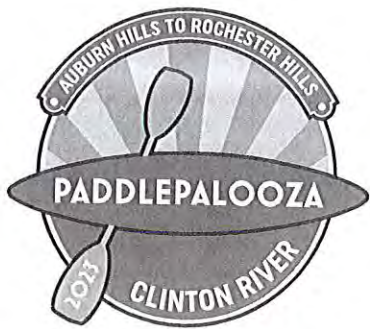
Detroit Area Steelheaders
www.detroitsteelheaders.com

For information on what action you can take to protect our water resources and our resident trout population, please visit www.auburnhills.org/stormwater.php or www.crw.org



A SPECIAL THANK YOU TO ALL OUR FISHING DERBY SPONSORS AND SUPPORTERS:

CLINTON VALLEY TROUT UNLIMITED • BASS PRO SHOPS
CLINTON RIVER WATERSHED COUNCIL • GENERAL TOWING
DETROIT AREA STEELHEADERS • BUFFALO WILD WINGS FOUNDATION



15TH ANNUAL PADDLEPALOOZA

On the sunny Saturday morning of June 3rd, over 72 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 15th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Professional Center.

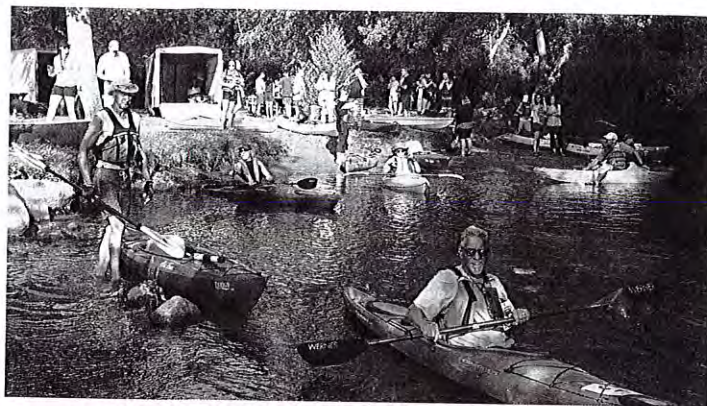
This year, six men competed in the kayak race, which Richard Ensley won, and six women competed in the kayak race, which was won by Gwenn Stevenson. Of the five teams that entered the canoe race, David and Violet Fiddes took home the first-place trophy. The Auburn Hills team of Mayor Kevin McDaniel and Kailer McDaniel won this year's Mayor's Challenge Cup. This victory extends Mayor McDaniel's consecutive winning streak to eight.

The remaining paddlers took a slower pace down the river, enjoying the scenic views and wildlife that often gather along the river's edge each morning. They were guided and assisted along the way by kayaking specialists from Simple Adventures.

All those involved in this year's event enjoyed a nice lunch under the pavilion at Rochester University while swapping stories of their journey down the river.

To learn more about kayaking and canoeing the Clinton River and all the access points along the river, please visit the Clinton River Watershed Council's Water Trail or check out the Clinton River Watershed Council's website at www.crw.org.

If you're interested in learning to kayak or want to get out on the water but don't have a watercraft, please visit Simple Adventure's website at www.simpleadventures.net. Their team of ACA-certified kayak and stand-up paddleboard instructors can get you out on the water and provide safe and friendly instructions on how to kayak and paddleboard on the waters with more confidence.



RACE RESULTS

WINNERS IN THE KAYAK RACE - MEN'S DIVISION

1. Richard Ensley 1:44.56
2. Richard Muri 1:46.10
3. Hans Dengler 1:52.28

WINNERS IN THE KAYAK RACE - WOMEN'S DIVISION

1. Gwenn Stevenson 1:48.41
2. Kristy Jacobsen 1:55.22
3. Camille Schez 2:14.02

WINNERS IN THE CANOE RACE

1. David Fiddes and Violet Fiddes 1:54.18
2. John Dunivant and Jason Boggs 2:18.37
3. Eddie Tabor and Hudson Tabor 2:43.20

MAYOR'S CHALLENGE CUP

Team Auburn Hills
Mayor Kevin McDaniel and Kailer McDaniel

THANK YOU SPONSORS AND SUPPORTERS:

GENISYS CREDIT UNION • ROCHESTER UNIVERSITY
CLINTON RIVER WATERSHED COUNCIL • FRESH THYME
SIMPLE ADVENTURES WATERSPORTS
RIVERCREST ORTHODONTICS • MICHIGAN BY THE BOTTLE
HI-TECH MOLD & ENGINEERING INC. • BLUE SKIES BREWERY
BASS PRO SHOPS • MOOSEJAW • THE MEAN WEENIE

CLINTON RIVER

PADDLEPALOOZA

AUBURN HILLS TO ROCHESTER HILLS

2022

SATURDAY, JUNE 4TH | 7 AM



RIVERSIDE PARK | PRE-REGISTRATION IS REQUIRED
QUESTIONS? CALL 248.370.9353
OR VISIT AUBURNHILLS.ORG

children's

DOWNTOWN MUSIC SERIES

WEDNESDAYS IN JULY | 10 - 11 AM

KNIGHT AMPHITHEATER

JULY 6 ZIPPITY 2 DADS

JULY 13 DETROIT SCHOOL OF ROCK

JULY 20 BEVERLY THE MUSIC LADY

JULY 27 KEVIN DEVINE



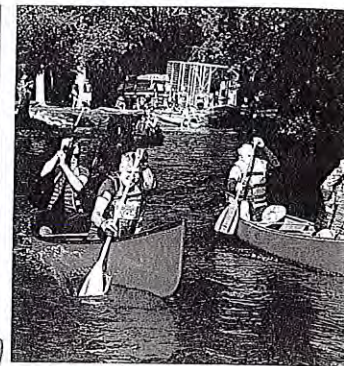
DOWNTOWN
AUBURN HILLS



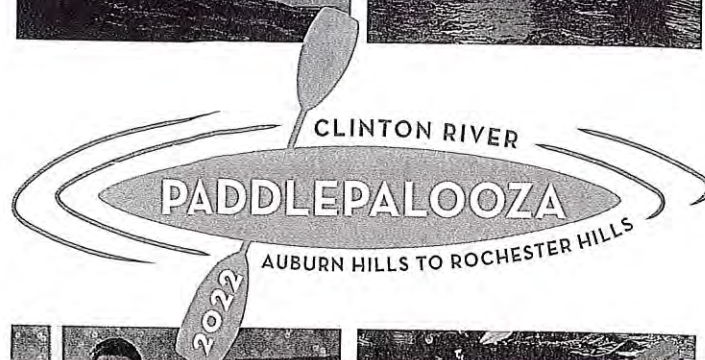
14TH ANNUAL PADDLEPALOOZA

Fall
2022

On the sunny Saturday morning of June 4th, over 88 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 14th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Professional Center.



This year, 14 men competed in the kayak race which was won by David Ives and eight women competed in the kayak race which was won by Gwenn Stevenson. Of the five teams that entered the canoe race, the team of David Fiddes and Violet Fiddes took home the first place trophy.



This year's Mayors Challenge Cup was won by the Auburn Hills team of Mayor Kevin McDaniel and Kailer McDaniel. This victory extends Mayor McDaniel's consecutive winning streak to seven.

The remaining paddling enthusiasts took a slower pace down the river, enjoying the scenic views and wildlife that often gather along the river's riparian corridor each morning.



RACE RESULTS

WINNERS IN THE KAYAK RACE – MEN'S DIVISION

1. David Ives 1:23.13
2. Rick Emley 1:25.08
3. Mitchell Treadwell 1:27.38

WINNERS IN THE KAYAK RACE – WOMEN'S DIVISION

1. Gwenn Stevenson 1:40.52
2. Kristy Jacobsen 1:42.47
3. Michelle Tindall 1:55.49

WINNERS IN THE CANOE RACE

1. David Fiddes and Violet Fiddes 1:43.26
2. John Dunivant and Jason Boggs 1:55.06
3. Jeff Orzechowski and William Nalu 1:58.38

MAYOR'S CHALLENGE CUP

Team Auburn Hills
Mayor Kevin McDaniel and Kailer McDaniel



THANK YOU SPONSORS & SUPPORTERS:

GENISYS CREDIT UNION • ROCHESTER UNIVERSITY
CLINTON RIVER WATERSHED COUNCIL • FRESH THYME
SIMPLE ADVENTURES WATERSPORTS • YATES CIDER MILL
RIVERCREST ORTHODONTICS • MICHIGAN BY THE BOTTLE
HI-TECH MOLD & ENGINEERING INC. • BLUE SKIES BREWERY
BASS PRO SHOPS • MOOSEJAW • CLINTON RIVER CANOE & KAYAK

To learn more about kayaking and canoeing the Clinton River and all the access points along the river, please visit the Clinton River Watershed Council's Water Trail webpage at www.crw.org/paddling.

If you're interested in learning to kayak or canoe or have a desire to get out on the water but don't have a watercraft, please visit Clinton River Canoe & Kayak at www.clintonriverkayak.com or Simple Adventures at www.simpleadventures.net.



CRWC is a non-profit organization dedicated to protecting, enhancing and celebrating the Clinton River, its watershed and Lake St. Clair.

SUPPORT THE CLINTON RIVER
WATERSHED COUNCIL!



CRWC

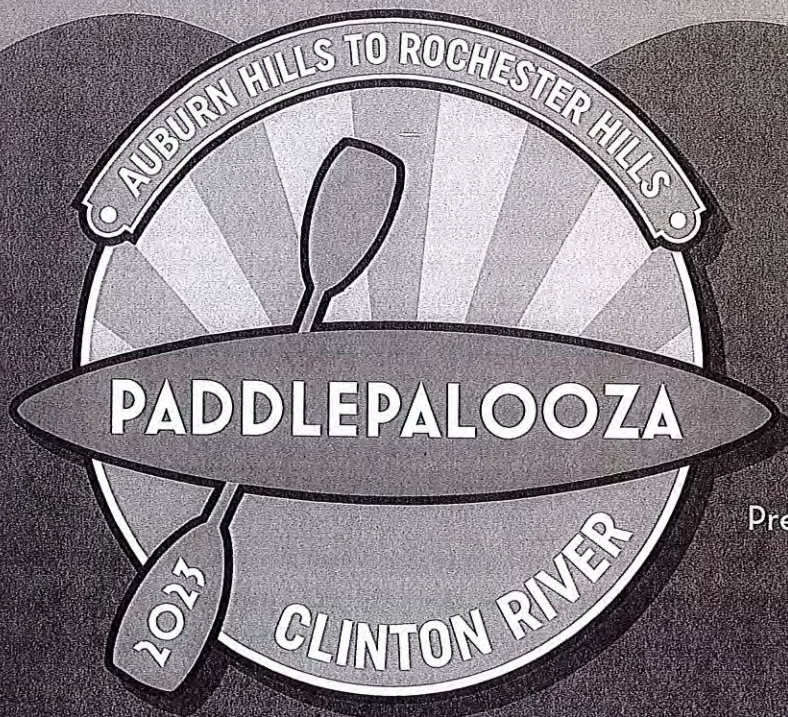
CLINTON RIVER WATERSHED COUNCIL

BLUE SKIES BREWERY AUBURN HILLS

FRIDAY, JUNE 2 | 6-9 PM

\$30 TICKET INCLUDES: ONE BEER | CASH BAR | ALL
YOU CAN EAT LARGO BROS. PIZZA | ONE RAFFLE
TICKET FOR DOOR PRIZES | DONATION SUPPORTING
CLINTON RIVER WATERSHED COUNCIL

Go to auburnhills.org for ticket information.



SATURDAY, JUNE 3

8:00AM | RIVERSIDE PARK
DOWNTOWN AUBURN HILLS

Pre-registration before 5/30 is recommended
to secure watercraft rental.



2022 Spring / Summer

GLOWFORGE SAFETY TRAINING CLASS

Glowforge is the iconic 3D Laser Printer that will take your crafts to the next level with cutting and engraving. Attend this training class to become certified to use our glowforge on your own for your future projects. Please bring your own Wi-Fi enabled device for set-up. Limited to 5 per class.

Prerequisite: Woodshop Safety Certification

Location: Community Center Makers Studio

Date: 4/12/22 #114001D

5/10/22 #114001E

6/14/22 #114001F

Time: 6:00 - 9:00 PM

Fee: \$5 Resident / \$10 Regular

CREATE YOUR OWN ICE CREAM SCOOP

Instructor Robin Bruening will walk you through all the steps to turn your own ice cream scoop using the lathe. By the end of the class you'll have a nice handmade ice cream scoop that's ready to use or share as a gift.

Prerequisite: Woodshop Safety Certification

Location: Community Center Makers Studio

Date: 4/23/22 #114002C

4/30/22 #114002D

Time: 10:00 AM - 12:00 PM

Fee: \$20 Resident / \$24 Regular

MAKE YOUR OWN CUTTING BOARD

Learn to make a cutting board to use at home or give to a loved one! The instructor will walk you through each step and all supplies are provided. Limited to 3 per class. This class requires two sessions to complete.

Prerequisite: Woodshop Safety Certification

Location: Community Center - Makers Studio

Time: 6:00 - 9:00 PM

Fee: \$20 Resident / \$30 Regular

Date: 04/13/22 & 4/14/22 #114003D

MAKE YOUR OWN STOOL

Learn with instructors Tom and Scott how to make your own stool to use at home or give to a loved one! The instructor will walk you through each step and all supplies are provided. Limited to 3 per class. This class requires two sessions to complete.

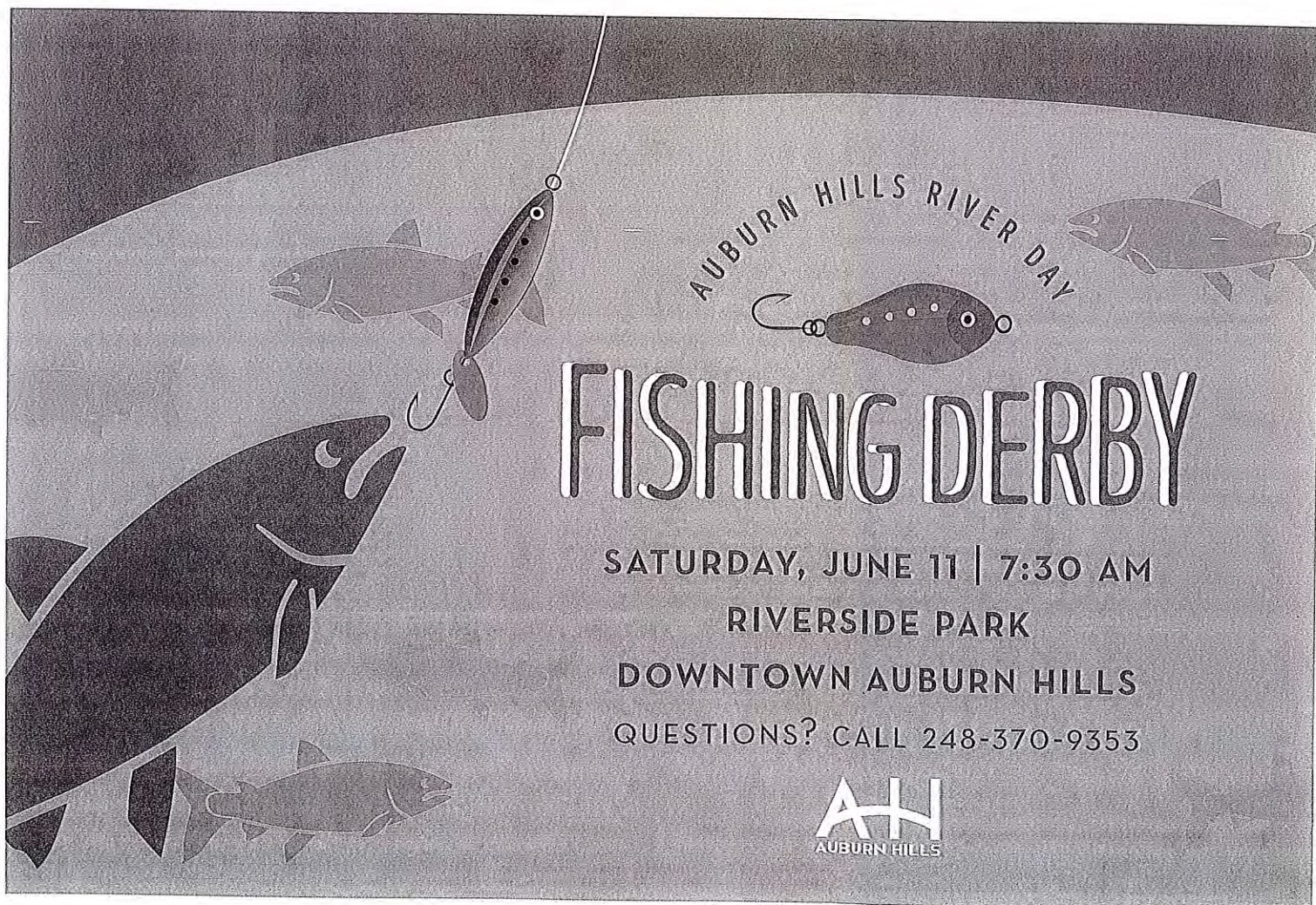
Prerequisite: Woodshop Safety Certification

Location: Community Center - Makers Studio

Time: 6:00 - 9:00 PM

Fee: \$20 Resident / \$30 Regular

Date: 6/7/22 & 6/21/22 #114004A



Auburn Hills River Day

FISHING DERBY

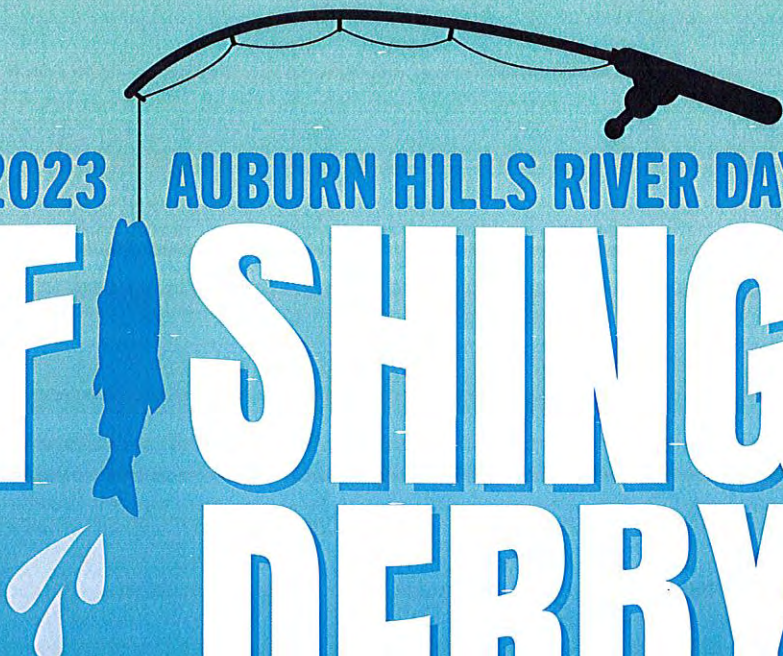
SATURDAY, JUNE 11 | 7:30 AM
RIVERSIDE PARK
DOWNTOWN AUBURN HILLS
QUESTIONS? CALL 248-370-9353

AH
AUBURN HILLS

The poster features a stylized illustration of a river scene. In the foreground, a large fish is shown in profile, facing right, with its mouth open as if it has just caught a lure. The lure is a spinner with a hook. Above the fish, a fishing line extends from the top of the frame. In the background, several other fish are swimming in the water. The text 'Auburn Hills River Day' is written in a curved, stylized font above the main title. The title 'FISHING DERBY' is in large, bold, white capital letters. Below the title, the event details are listed in a smaller, sans-serif font. At the bottom, there is a logo for Auburn Hills, consisting of the letters 'AH' in a stylized font above the words 'AUBURN HILLS'.

Spring/Summer 2025

2023 AUBURN HILLS RIVER DAY



FISHING DERBY

SATURDAY, JUNE 10 | CHECK-IN BEGINS AT 7:30 AM
RIVERSIDE PARK | DOWNTOWN AUBURN HILLS



REELS BY THE RIVERSIDE

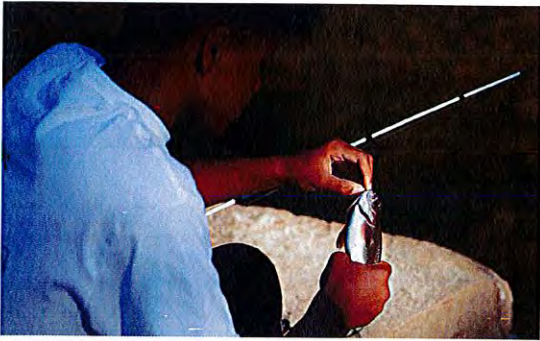
Presented by AHDDA

JUN 10 | JUL 15 | AUG 12 | SEP 9*

*Grandparents night! All ages welcome.

MOVIES START AT DUSK | KNIGHT AMPHITHEATER

**DOWNTOWN
AUBURN HILLS**

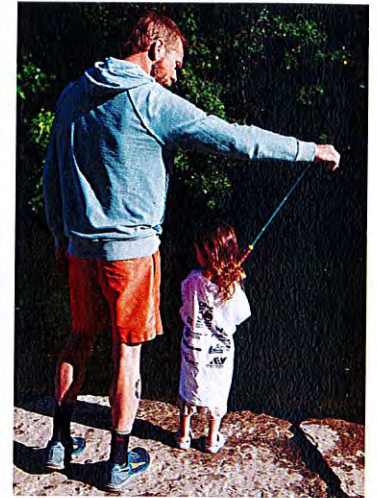
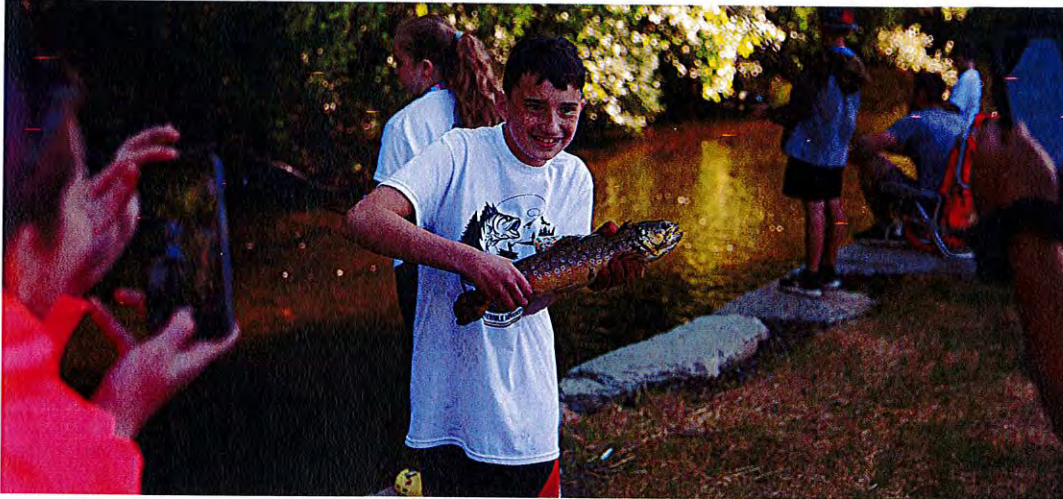


Fall 2022

AUBURN HILLS RIVER DAY



FISHING DERBY



A RIVER DAY CELEBRATION

The fish were really active and biting during the 19th Annual Auburn Hills River Day Fishing Derby, which was held on Saturday, June 11th at Riverside Park. The 90-plus kids who participated this year had the opportunity to catch one or more of the 775 rainbow trout that were released into the Clinton River for this annual event.

It wasn't long after the 8:00 am start time that participants began catching fish, some as large as 15-inches in length. This year's derby had a few new participants that were also able to reel in a few nice size trout during this year's river celebrations.

One of the main reasons so many kids caught a trout that day was in large part due to the generous donations made by Clinton Valley Trout Unlimited, the Detroit Area Steelheaders, and General Towing. Their generous donations enabled the City to double the amount of trout released for the day's event.

The derby ended with many happy kids since everyone walked away with a raffle prize, that included tackle boxes, fishing nets, hats, snacks, and over 60 slightly used rod and reel combos donated by Bass Pro Shops Outdoor World.

If you missed the derby, there are still plenty of fish and time to test your fishing skills in Downtown Auburn Hills at Riverside Park and River Woods Park.

For those interested in becoming more involved in increasing and/or promoting the fishing opportunities in the area, please visit:

Clinton River Watershed Council
www.crwcc.org

Clinton Valley Trout Unlimited
www.clintonvalleytu.com

Detroit Area Steelheaders
www.detroitsteelheaders.com

For information on what action you can take to protect our water resources and our resident trout population, please visit www.auburnhills.org/stormwater.php or www.crwcc.org

To report pollution, call the City of
Auburn Hills Community Development
Department at 248-364-6900.

A SPECIAL THANK YOU TO ALL OUR FISHING DERBY SPONSORS AND SUPPORTERS:

CLINTON VALLEY TROUT UNLIMITED • BASS PRO SHOPS
CLINTON RIVER WATERSHED COUNCIL • GENERAL TOWING
DETROIT AREA STEELHEADERS

CLINTON RIVER CLEAN UP

SATURDAY, SEPTEMBER 16 | 9:00 AM - 12:00 PM

RIVER WOODS PARK

DETAILS

Volunteers will meet at River Woods Park and are advised to wear work clothes and sturdy shoes.

For more information, please contact Shawn Keenan, City Planner, at 248-364-6926 or skeenana@auburnhills.org.

Advance notification of participation is preferred, but not required.

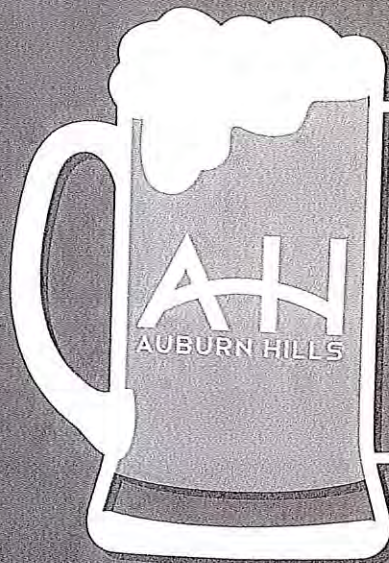
WHY CLEAN UP?

To preserve and protect our water resources for this generation and future generations. This is an excellent opportunity for adults, teenagers, students, naturalists, and businesses to work together to improve our environment.

To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



AGES 21+



SEPTEMBER
BEER
FEST



FRIDAY, SEPTEMBER 22 | 6-10 PM

RIVERSIDE PARK



The Auburn Hills Downtown Development Authority is sponsoring the event with all proceeds going to Neighborhood House, an organization that provides outreach and numerous benefits to Auburn Hills residents in need. Tickets include event entry, eight tastings, dinner, dessert, and live music. Tickets are \$40 from now until September 15. Tickets will be \$50 on the day of the event.



BUSINESSES, STUDENTS AND OUTDOOR ENTHUSIASTS STEP UP TO KEEP OUR WATERS CLEAN

On the cool Saturday morning of September 17th, ten employees and family members from Martinrea International and 12 super-students, their teacher, and parents from Van Hoosen Middle School worked together to clean up a one-half mile stretch of the Clinton River, River Woods Park, and the City's Skate Park. Their two hours of dedicated work that day resulted in the removal of over 25 bags of trash, one chair, a foam mattress, a car tire, PCV pipes, and other large items from the river, riverbank, and parks.

One month later, on October 22nd, 17 volunteers from Trout Unlimited's Vanguard Chapter and Challenge Chapter donned their waders and entered the waters at River Woods Park to remove trash and other debris that accumulated in the river. Their efforts resulted in the removal of 15 bags of garbage, one garden hose, five shopping carts, and an assortment of other debris from the river.

The commitment made by these community-minded stewards of our watershed not only helps keep our river clean for all to enjoy but also protects wildlife and wildlife habitat for this generation and generations to come. This is important because an increasing number of people that live, work, or drive through Auburn Hills now realize the beautiful river system that exists right here in Auburn Hills for their fishing, kayaking, and viewing pleasure.

The City of Auburn Hills would like to thank all the volunteers who participated in this year's clean-up efforts.

To learn what you can do to improve the quality of our local rivers, lakes, and streams, please visit the Community Development Department's Stormwater webpage at www.auburnhills.org/stormwater.php. or the Clinton River Watershed Council's website at www.crw.c.org.

To learn more about Trout Unlimited and all the good work they do in our watershed, please visit www.vanguardtu.org and www.challengechapter.org



Martinrea International



Van Hoosen Middle School



Trout Unlimited

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
1500 BROWN ROAD | AUBURN HILLS 48326

PHONE 248-391-3777
FAX 248-391-4895
EMAIL DPW@AUBURNHILLS.ORG

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

HOUSEHOLD HAZARDOUS WASTE DAY

SATURDAY, 5/14/2022 | 9 AM - 3 PM

ACCEPTED MATERIALS



COMPUTERS, TELEVISIONS, MICROWAVES, HOUSEHOLD BATTERIES, ANY ELECTRONIC DEVICES



HOUSEHOLD CHEMICALS, SOLVENTS, MOTH BALLS, EXPIRED MEDICATIONS, MERCURY DEBRIS, CLEANING PRODUCTS, SOLVENT-BASED GLUE, FLUORESCENT LIGHTBULBS



FUNGICIDES, HERBICIDES, INSECTICIDES, PESTICIDES, FERTILIZERS, RAT POISON



AUTOMOTIVE OILS, GASOLINE, KEROSENE, DIESEL FUELS, BRAKE FLUID, ANTI-FREEZE, ACID FILLED BATTERIES, ACID, SOLVENTS, WAXES, LUBRICANTS



SOLVENTS, OILS, GLUES, CAULKING, PAINT THINNER, TURPENTINE, VARNISHES, WOOD PRESERVATIVES, EPOXY, EMPTY PROPANE TANKS

NON-ACCEPTED MATERIALS



LATEX PAINT / WATER-BASED PAINT NOT ACCEPTED BECAUSE THESE ARE NOT CONSIDERED HAZARDOUS WASTE PRODUCTS. LATEX PAINT CAN BE SOLIDIFIED BY OPENING THE CONTAINER AND LETTING IT DRY, OR USING AN ABSORBENT SUCH AS SAND OR KITTY LITTER. ONCE SOLIDIFIED, THE CONTAINER CAN BE DISPOSED OF IN REGULAR HOUSEHOLD GARBAGE. PLEASE HELP US DEFRAY THE COST OF PAYING A HAZARDOUS WASTE COLLECTION VENDOR FOR DISPOSAL OF WATER-BASED PAINTS.



COMMERCIALLY GENERATED WASTE, RADIOACTIVE WASTE, EXPLOSIVES, AMMUNITION, SHOCK SENSITIVE MATERIALS, INDUSTRIAL COMPRESSED GAS CYLINDERS, MEDICAL WASTE (NEEDLES, SHARPS, SYRINGES).

AUBURN HILLS DPW GARAGE

1500 BROWN ROAD | AUBURN HILLS, MI 48326

LOCATED ON THE SOUTH SIDE OF BROWN ROAD BETWEEN
JOSLYN & GIDDINGS ROADS

NOTE: THIS EVENT IS FREE OF CHARGE AND IS OPEN TO
ALL AUBURN HILLS RESIDENTS. PLEASE BRING PROOF OF
RESIDENCY WITH YOUR AUBURN HILLS ADDRESS.



ONLY RAIN IN THE DRAIN

Storm drains lead directly to our lakes and streams. Oil, pet waste, leaves, or dirty water from washing your car that enters a storm drain gets into our lakes and streams. With almost five million people living in Southeast Michigan, we all need to be aware of what goes into our storm drains. Remember, only rain in the drain!

Here are some simple steps you can take to help keep pollutants out of storm drains and keep our water clean.

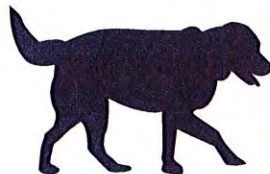
To report pollution, call the City of Auburn Hills Community Development Department at 248-364-6900.



Do you have extra fertilizer, grass clippings, or dirt on your driveway? Sweep it back onto your lawn. Hosing your driveway sends these pollutants into storm drains that lead to our lakes and streams.



Volunteer to label storm drains in your neighborhood to inform residents that storm drains flow directly to our lakes and streams. Encourage citizens to contact their local community for more information on storm drain stenciling programs.



Pick up after your pets! Pet waste contains bacteria that are harmful to us and our water. Leaving it on the sidewalk or lawn means the bacteria will be transported into the storm drains, and then into our lakes and streams.

2023 IMPORTANT DATES FROM THE ASSESSING OFFICE

MARCH 13

BOARD OF REVIEW
ASSESSMENT PROTESTS
9AM - 12PM & 1-4PM
ADMIN CONFERENCE ROOM
CITY HALL

MARCH 14

BOARD OF REVIEW
ASSESSMENT PROTESTS
2 - 5PM & 6-9PM
ADMIN CONFERENCE ROOM
CITY HALL

MAY 31

LAST DAY TO FILE
COMMERCIAL, INDUSTRIAL,
PERSONAL PROPERTY
ASSESSMENT APPEALS TO MI
TAX TRIBUNAL

JUNE 1

PRINCIPAL RESIDENCE &
ELIGIBLE DEVELOPMENT
PROPERTY EXEMPTION
DEADLINE FOR SUMMER
TAX LEVY

JULY 18

BOARD OF REVIEW
CLERICAL ERRORS,
VETERANS EXEMPTIONS,
& ECONOMIC HARDSHIP
APPEALS | 11AM
ADMIN CONFERENCE ROOM

JULY 31

LAST DAY TO FILE
RESIDENTIAL PROPERTY
ASSESSMENT APPEALS TO MI
TAX TRIBUNAL

NOVEMBER 1

PRINCIPAL RESIDENCE &
ELIGIBLE DEVELOPMENT
PROPERTY EXEMPTION
DEADLINE FOR WINTER
TAX LEVY

DECEMBER 12

BOARD OF REVIEW
CLERICAL ERRORS,
VETERANS EXEMPTIONS,
& ECONOMIC HARDSHIP
APPEALS | 11AM
ADMIN CONFERENCE ROOM

COMMUNITY DEVELOPMENT

COMMUNITY DEVELOPMENT
1827 N. SQUIRREL RD. | AUBURN HILLS 48326

PHONE 248-364-6900
FAX 248-364-6939

BUSINESS HOURS
MONDAY - FRIDAY | 8:00 AM - 5:00 PM

MAINTAIN A HEALTHY LAWN

MOW HIGH, RECYCLE CLIPPINGS

- Mow at least three inches high
- Return clippings to recycle nutrients
- Sweep or blow clippings from walks and driveways onto the lawn
- Taller grass will discourage weeds and promote deeper roots, helping the lawn survive droughts

BE SMART WITH FERTILIZER

- Be patient in the spring - wait until May to fertilize
- Don't fertilize if the ground is frozen or saturated with water
- Choose lawn fertilizers with low or no phosphorus (the middle number) and follow the directions
- Confirm spreader setting before applying
- Don't fertilize or discharge clippings near lakes, rivers, streams or storm drains
- Sweep fertilizer granules from walks and driveways onto the lawn
- Wash your spreader on the grass

WATER REMINDERS

- Watering should not produce puddles. Lighter, more frequent watering is best
- Brown lawns are OK; dormancy is a natural response to drought; however, some water may be necessary in a drought of more than a month

For more healthy lawn care tips please visit
MSU Turfgrass Science website at www.turf.msu.edu

DON'T DUMP

Enjoying the summer in your recreation vehicle? Protect the environment at the same time! Dispose of waste properly; take all waste to a facility – don't dump!

The facility below accepts RV waste:
Addison Oaks County Park
1480 W. Romeo Road, Leonard, MI
\$30 | Call for hours: 248-693-2432

SUMMER CAR MAINTENANCE

Washing cars in your driveway can add pollutants to our waterways. Wash water that enters storm drains often contains detergents, oil, grease, heavy metals, and dirt. Vehicle fluids dumped down a storm drain or directly into a waterway can cause serious problems. The amount it takes to fill your automobile's engine can form an eight acre oil slick in a river. Other vehicle fluids are poisonous to people, fish, and wildlife.

WASHING TIPS

- Wash your car at commercial carwashes that use water efficiently and dispose it properly
- Remove dirt around wheels first with a wire brush. Collect the soil with a broom and dispose of it in a manner that will keep it out of storm drains
- Use non-phosphate biodegradable detergents and mild soaps, such as vegetable oil-based soaps
- Wash one section of the car at a time and rinse it quickly using a pistol grip nozzle with high pressure and low volume

MAINTENANCE TIPS

- If you change vehicle fluids at home, take the waste fluids to a recycling center or an oil change facility
- Always use a drip pan under your work and use funnels when transferring fluids
- Never mix waste oil with gasoline, solvents or other liquid
- Change vehicle fluids in the garage whenever possible
- If a spill occurs, pour kitty litter, saw dust or cornmeal on spill to absorb the liquid. Place the waste material in a strong plastic bag and dispose of it with your trash

EXHIBIT T

14TH ANNUAL PADDLEPALOOZA

Fall
2022

On the sunny Saturday morning of June 4th, over 88 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 14th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Professional Center.

This year, 14 men competed in the kayak race which was won by David Ives and eight women competed in the kayak race which was won by Gwenn Stevenson. Of the five teams that entered the canoe race, the team of David Fiddes and Violet Fiddes took home the first place trophy.

This year's Mayors Challenge Cup was won by the Auburn Hills team of Mayor Kevin McDaniel and Kailer McDaniel. This victory extends Mayor McDaniel's consecutive winning streak to seven.

The remaining paddling enthusiasts took a slower pace down the river, enjoying the scenic views and wildlife that often gather along the river's riparian corridor each morning.

RACE RESULTS

WINNERS IN THE KAYAK RACE – MEN'S DIVISION

1. David Ives 1:23.13
2. Rick Emley 1:25.08
3. Mitchell Treadwell 1:27.38

WINNERS IN THE KAYAK RACE – WOMEN'S DIVISION

1. Gwenn Stevenson 1:40.52
2. Kristy Jacobsen 1:42.47
3. Michelle Tindall 1:55.49

WINNERS IN THE CANOE RACE

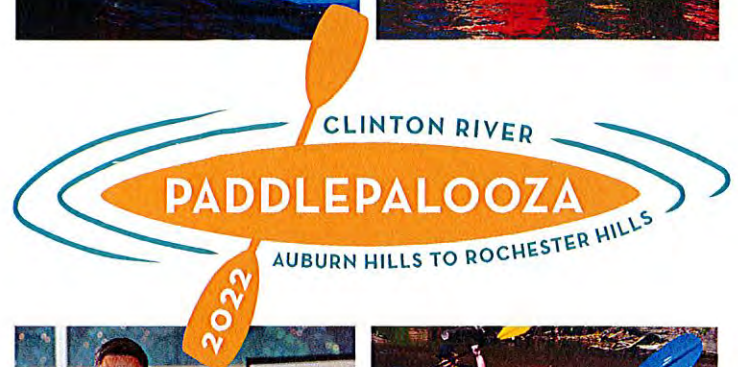
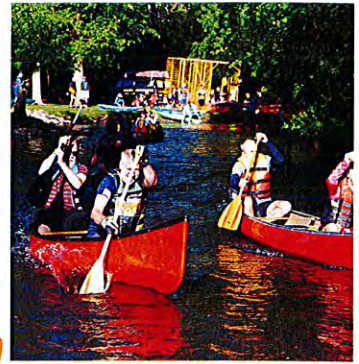
1. David Fiddes and Violet Fiddes 1:43.26
2. John Dunivant and Jason Boggs 1:55.06
3. Jeff Orzechowski and William Nalu 1:58.38

MAYOR'S CHALLENGE CUP

Team Auburn Hills
Mayor Kevin McDaniel and Kailer McDaniel

To learn more about kayaking and canoeing the Clinton River and all the access points along the river, please visit the Clinton River Watershed Council's Water Trail webpage at www.crw.org/paddling.

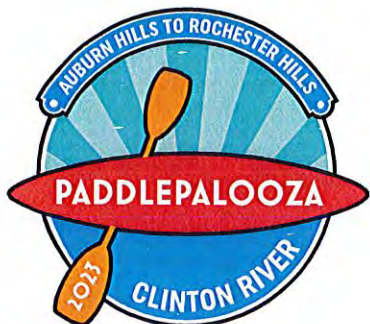
If you're interested in learning to kayak or canoe or have a desire to get out on the water but don't have a watercraft, please visit Clinton River Canoe & Kayak at www.clintonriverkayak.com or Simple Adventures at www.simpleadventures.net.



THANK YOU SPONSORS & SUPPORTERS:

GENISYS CREDIT UNION • ROCHESTER UNIVERSITY
CLINTON RIVER WATERSHED COUNCIL • FRESH THYME
SIMPLE ADVENTURES WATERSPORTS • YATES CIDER MILL
RIVERCREST ORTHODONTICS • MICHIGAN BY THE BOTTLE
HI-TECH MOLD & ENGINEERING INC. • BLUE SKIES BREWERY
BASS PRO SHOPS • MOOSEJAW • CLINTON RIVER CANOE & KAYAK

Fall
2023



15TH ANNUAL PADDLEPALOOZA

On the sunny Saturday morning of June 3rd, over 72 kayakers and canoers gathered along the banks of the Clinton River at Riverside Park, in Downtown Auburn Hills, for the 15th Annual Paddlepalooza. All participants, young and old, were geared up to take the eight-mile trip that ends in Rochester Hills at River Crest Professional Center.

This year, six men competed in the kayak race, which Richard Ensley won, and six women competed in the kayak race, which was won by Gwenn Stevenson. Of the five teams that entered the canoe race, David and Violet Fiddes took home the first-place trophy. The Auburn Hills team of Mayor Kevin McDaniel and Kailer McDaniel won this year's Mayor's Challenge Cup. This victory extends Mayor McDaniel's consecutive winning streak to eight.

The remaining paddlers took a slower pace down the river, enjoying the scenic views and wildlife that often gather along the river's edge each morning. They were guided and assisted along the way by kayaking specialists from Simple Adventures.

All those involved in this year's event enjoyed a nice lunch under the pavilion at Rochester University while swapping stories of their journey down the river.

To learn more about kayaking and canoeing the Clinton River and all the access points along the river, please visit the Clinton River Watershed Council's Water Trail or check out the Clinton River Watershed Council's website at www.crwcc.org.

If you're interested in learning to kayak or want to get out on the water but don't have a watercraft, please visit Simple Adventure's website at www.simpleadventures.net. Their team of ACA-certified kayak and stand-up paddleboard instructors can get you out on the water and provide safe and friendly instructions on how to kayak and paddleboard on the waters with more confidence.



RACE RESULTS

WINNERS IN THE KAYAK RACE - MEN'S DIVISION

1. Richard Ensley 1:44.56
2. Richard Muri 1:46.10
3. Hans Dengler 1:52.28

WINNERS IN THE KAYAK RACE - WOMEN'S DIVISION

1. Gwenn Stevenson 1:48.41
2. Kristy Jacobsen 1:55.22
3. Camille Schez 2:14.02

WINNERS IN THE CANOE RACE

1. David Fiddes and Violet Fiddes 1:54.18
2. John Dunivant and Jason Boggs 2:18.37
3. Eddie Tabor and Hudson Tabor 2:43.20

MAYOR'S CHALLENGE CUP

Team Auburn Hills
Mayor Kevin McDaniel and Kailer McDaniel

THANK YOU SPONSORS AND SUPPORTERS:

GENISYS CREDIT UNION • ROCHESTER UNIVERSITY
CLINTON RIVER WATERSHED COUNCIL • FRESH THYME
SIMPLE ADVENTURES WATERSPORTS
RIVERCREST ORTHODONTICS • MICHIGAN BY THE BOTTLE
HI-TECH MOLD & ENGINEERING INC. • BLUE SKIES BREWERY
BASS PRO SHOPS • MOOSEJAW • THE MEAN WEENIE

EXHIBIT U

OPERATION

MEDICINE CABINET

RULES OF PRESCRIPTION DROP-OFF

- ALL DRUGS MUST BE BROUGHT IN SEALED BAGGIES
- ONLY PRESCRIPTION DRUGS ARE COLLECTED
- NEEDLES ARE NOT ACCEPTED
- ALL LIQUIDS MUST BE SEALED

NO QUESTIONS ASKED

248-370-9444

