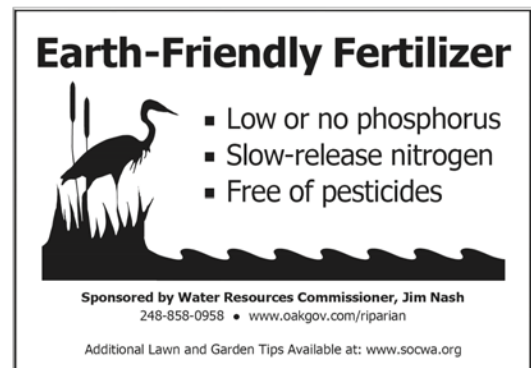

Oakland County Phase II Stormwater Biennial Progress Report
Summary for Community Use
Prepared by the Oakland County Water Resources Commissioner's Office
October 1, 2015 – September 30, 2017

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 items represent activities implemented by Oakland County during fiscal years 2016 and 2017 (FY 2016/2017) to protect and restore water resources throughout Oakland County. A complete copy of Oakland County's 2016-2017 Stormwater Biennial Progress Report will be available on the Oakland County Web site: www.oakgov.com/water, after November 1, 2017. 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

Earth-Friendly Fertilizer Sticker Program

Beginning in FY 2015, the WRC coordinated the distribution of the "Earth-Friendly Fertilizer Stickers" to retailers within Oakland County promoting the use of slow-release nitrogen, low or no phosphorus and pesticide-free fertilizers. In FY 2016, twenty-one retailers participated in the program coordinated by WRC and approximately 3,800 stickers were distributed. There were 10 participating stores in the Clinton River watershed, three (3) in the Rouge River watershed and eight (8) in the Huron River watershed. The program did not take place in FY 2017.



Household Hazardous Waste Recycling

The Oakland County Waste Resource Management Division sponsored 10 household hazardous waste disposal days in FY 2016/2017:

- October 24, 2015 and September 16, 2017 at Oakland Community College – Highland Lakes Campus
- April 30, 2016 and April 15, 2017 at Oxford Middle School in Oxford Twp,
- May 21, 2016 and July 22, 2017 at North Sashabaw Elementary in Independence Twp,
- June 11, 2016 and June 24, 2017 at Oakland University in Rochester, and
- September 10, 2016 and October 15, 2016 at Wildwood Amphitheatre in Orion Township.

More than 1.3 million pounds of waste was collected during the past ten collection events. Over the past fourteen years, residents of more than 44,000 households have disposed of more than 5.4 million pounds of hazardous materials which have been recycled or disposed of properly.

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 2016, 166 Oakland County schools have earned the Michigan Green School designation. Thirty-two (32) of the schools also received the special designation of Emerald Schools and 105 schools earned the Evergreen Schools status. An award ceremony was held on April 21, 2016 to honor the schools.

In FY 2017, 153 Oakland County schools earned the Michigan Green School designation. Thirty (30) of the schools also received the special designation of Emerald Schools and 99 schools earned the Evergreen Schools status. An award ceremony was held on April 26, 2017 to honor the schools.

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

Oakland County e-Recycle Event

In FY 2016, Oakland Schools hosted an e-waste recycling event on May 18, 2016 from 8 a.m. to 2 p.m. in the East Parking Lot of the Oakland Schools Building at 2111 Pontiac Lake Road in Waterford. This was an opportunity for residents of Oakland County to have a safe way to dispose of unwanted electronics so they could be recycled and kept out of landfills. Items recycled included routers, computer systems, printers, keyboards, mice, a typewriter, media, cords/wires, speakers, a scanner, CD player and miscellaneous electronic scrap. The total weight of items kept out of a landfill was 21,749 pounds! This event did not take place in FY 2017.

Operation Medicine Cabinet Program

There are currently 36 drop-off sites throughout Oakland County where unused pharmaceuticals can be properly disposed of. Locations include Oakland County Sheriff's offices in: Addison Twp, Brandon Twp, Commerce Twp, Highland Twp, Independence Twp, Lyon Twp, Oakland Twp, Orion Twp, Oxford Twp, Pontiac, Rochester Hills and Springfield Twp, as well as the Police Departments in Auburn Hills, Beverly Hills Village, Birmingham, Clawson, Farmington Hills, Holly, Keego Harbor, Madison Heights, Rochester, Royal Oak, Southfield, Troy, West Bloomfield and White Lake. 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](#).

Stormwater Utility Legislation

In 2014, the WRC convened a workgroup of stakeholders to assemble language for a bill that will help clarify how communities can establish dedicated funding sources for managing their stormwater systems. House Bill 5991 was introduced on October 19, 2016 by Representative Michael McCready. The bill is known as the "Stormwater Utility Act". An article describing the bill was published in the MWEA Matters Winter 2017 edition. Another article entitled, "Managing the Storm: Efforts encourage property owners to go green, not drain" was published in Crain's Detroit Business on November 20, 2016, and highlighted the bill, as well. Time ran out for the session and that Bill did not end up going to

Committee. A new bill with the same language, House Bill 4100, was introduced this year (2017) and has support from Senator Knollenberg. Work on this effort and related resources are available on the WRC's website at: https://www.oakgov.com/water/Pages/Legislative_and_Advisory_Efforts.aspx

The WRC assembled and released a report entitled, "Enhancing Our Water Resources to Advance Economic Prosperity and Quality of Life in Oakland County - New Framework for Success" in 2016. The report's focus is on the best means to achieve water quality improvement and protection by working together to manage and improve infrastructure, and have a means to fund the management objectives (including the option of having a Stormwater Utility). The report is available online [here](#). All attendees at the 2016 Regional Stormwater Summit also received a hard copy of the report (approx. 260 attendees).

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

The WRC has a complete listing of current, future and recently completed storm drain and sanitary sewer projects that are implemented to protect our natural resources from water pollution and are available on WRC's [web site](#).

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, hosted the third and fourth annual Art-Fish-Fun Festival in Beaudette Park in Pontiac on June 11, 2016 and June 10, 2017, respectively. The event is aimed to educate and engage the public in environmental education in a fun-filled way. In addition to environmental exhibitors, the event features fishing with Water Resources Commissioner, Jim Nash, and a barbeque lunch. In FY 2016, there were more than 400 visitors and 29 exhibitors. In FY 2017, there were more than 800 visitors and 46 exhibitors. Prior to the beginning of the festival, volunteers also come out to participate in a trash cleanup along the water's edge. In FY 2017, 27 volunteers collected 27 bags of trash.

Clinton River Water Festival

The WRC was part of the planning committee to present the 10th and 11th annual Clinton River Water Festivals at Oakland University in Rochester on May 20, 2016 and May 19, 2017. The Water Festival reached nearly 2,500 fifth grade students and nearly 450 teachers and chaperones in the Clinton River watershed.

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.

Oakland County Environmental/Natural Resource-Related Web Sites

The WRC continues to enhance and maintain its Web site: 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: envreg@oakgov.com. The WRC also maintains a Web link to its riparian education information at www.oakgov.com/riparian.

The Oakland County Planning and Economic Development department continues to host and update the Oakland County Environmental Stewardship Web site: <https://www.oakgov.com/edca/planning/environmentalstewardship/Pages/default.aspx>.

The Oakland County Parks and Recreation Commission also hosts a comprehensive Web site: <https://www.oakgov.com/parks/Pages/default.aspx> which features a calendar of events, stewardship opportunities, links to countywide parks and trails and other natural resource-related information for Oakland County.

Kids’ Clean Water Calendar Contest

The WRC received nearly 1,500 entries from fourth and fifth grade students throughout Oakland County for the 2016 and 2017 Calendar Contests. Winning entries were included in 11,000 calendars that were distributed to homeowners, municipalities, businesses and schools throughout Oakland County.

Oakland Lakefront Lifestyles Magazine Advertisements

Public education messages were placed in the April to September issues of *Oakland Lakefront Lifestyles* magazine. The messages included pet care, fertilizers, household hazardous waste disposal, earth-friendly landscaping, septic system maintenance and storm drain awareness. *Oakland Lakefront Lifestyles* is published monthly and reaches approximately 15,400 homeowners on any of 223 lakes within the west and central areas of Oakland County annually.

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 2016/2017, the WRC Dirt Doctors educated more than 3,000 students through 84 presentations at 15 events located in Bloomfield Hills, Detroit, Lake Orion, Macomb, Monroe, Pontiac and Rochester Hills.

Oakland County Drain Detectives Program

The Drain Detectives program teaches students how pollution can get into our waterways, what to look for, how to detect it and how to trace the source of the pollution. Students learn how they can help prevent pollution and how to report pollution incidents through Oakland County's 24-Hour Pollution Hotline. Students also learn how water and pollution travel through the watershed. During FY 2016/2017, the Drain Detectives educated more than 500 students in 15 different presentations at four (4) different events located in Bloomfield Hills, Detroit, Macomb and Waterford.

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. During FY 2016/2017, approximately 1,100 students in 86 different presentations at 14 different events located in Birmingham, Bloomfield Hills, Dearborn, Ferndale, Oxford, Pontiac, Rochester Hills, Troy and West Bloomfield were reached.

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 August 2016, August 2017, and September 2017 issues which reach 15,400 riparian homeowners annually. Proper septic system operation and maintenance education is also provided in the [Waterfront Wisdom booklet](#).

Additionally, the Oakland County Health Department presented at five (5) septic system maintenance workshops in FY 2016/2017 hosted in Addison Township, Bloomfield Hills, Farmington Hills, Franklin, and Orion Township. MSU-Extension Oakland County also hosted several workshops and a statewide webinar on septic education reaching more than 200 individuals. MSU-Extension has a website on Septic System Education available at: http://msue.anr.msu.edu/program/info/septic_system_education.

Regional Stormwater Summit

The 3rd annual Stormwater Summit was held on October 9, 2015, with approximately 225 people in attendance at Lawrence Technological University. The event is held in partnership with LTU, Pure Oakland Water and the WRC. The fourth annual Summit was held on October 7, 2016 at LTU with approximately 260 attendees. 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.

The 2015 event was recorded and is available to view on YouTube at:

Track 1 (Main Auditorium): https://youtu.be/-e1tXAzv_RA

Track 2 (Lear Auditorium): <https://youtu.be/fOTMStVKjo4>

Topics included harmful algal blooms, Michigan's Water Strategy, green infrastructure implementation, stormwater funding, and a special presentation open to the public on "How the Great Lakes Were Formed".

The 2016 event was recorded and available to view on YouTube at: <https://youtu.be/1k2HTly6WOI>

Topics included green infrastructure planning, implementation and maintenance, the benefit of stormwater management to quality of life, stormwater management rules and ordinances, and a special presentation open to the public on “Historical and Projected Future Climatic Trends in Southeast Michigan”.

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, 2017, more than 16,000 booklets have been distributed throughout southeast Michigan. There are still copies available free of charge upon request. The booklet has also been specifically adapted to the [Clinton River](#) and [Rouge River](#) watersheds and is available digitally.

Rouge River Water Festival

The WRC partnered with the Cranbrook Institute of Science to present the Water Festival for the Oakland County portion of the Rouge River Watershed. The 14th and 15th annual Cranbrook Water Festival provided an educational and enjoyable learning experience that supports the objectives of school science programs for fourth and fifth grade students. The Water Festivals reached nearly 3,600 participants from 24 elementary schools in 13 different Oakland County Rouge Communities (Beverly Hills, Bingham Farms, Birmingham, Bloomfield Hills, Commerce, Farmington, Farmington Hills, Franklin, Oak Park, Southfield, Troy and Walled Lake).

Stormwater Pollution Prevention and Illicit Discharge Elimination Program Awareness Training

In FY 2016, the WRC hosted a regional training on Stormwater Pollution Prevention and IDEP awareness as part of the 5-year Regional IDEP and Stormwater Pollution Prevention training plan in cooperation with the Alliance of Rouge Communities and Macomb, Oakland, St. Clair, Washtenaw and Wayne Counties.

The training was held on October 13, 2016 at Oakland Schools in Waterford. There were 90 attendees. Based on survey results from 55 respondents, a 61% response rate, 96% agreed to strongly agreed that the training was valuable and 80% planned to implement the recommended practices.

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 40 complaints from 17 communities in FY 2016 and 40 complaints from 21 communities in FY 2017. Investigation of these complaints resulted in the identification and elimination of 50 illicit discharge sources. An illicit discharge is pollution draining to surface water or the dumping of polluting material that can impact surface water.

A summary of complaint investigations is provided in the tables below.

Summary of FY 2016 WRC Pollution Hotline Complaint Investigations

Community	Number of			Source of Discharge
	Complaints	Illicit Discharges	Illicit Discharges Corrected	
Auburn Hills	4	3	3	Sediment (2) – School / Road Construction sites, Food Wastes - Leaky Dumpster
Beverly Hills	2	2	2	SSO - Sewage
Birmingham	1	1	1	SSO - Sewage
Bloomfield Twp.	1	0	0	N/A
Clarkston	1	0	0	N/A
Clawson	1	1	1	Transformer Oil - Vehicle Accident
Commerce Twp.	2	1	1	SSO - Sewage
Farmington Hills	9	7	7	Sewage (6) - Residential Failed Septic, *Broken Sanitary - Glen Oaks Golf Course, SSO (3), Mobile Home Trailer, Fuel / Oil - Garbage Truck Fire
Highland Twp.	3	1	1	Fuel Spill - Gas Station
Independence Twp.	1	0	0	Algal Bloom - Dollar Lake
Pontiac	7	3	3	Yard Waste - Residential, Sewage - SSO (2)
Rochester	1	1	0	** Industrial Site - Groundwater Contamination
Southfield	2	0	0	*** Ongoing IDEP Investigation - 8 Mile Drain
Troy	2	0	0	N/A
Waterford Twp.	1	1	1	Hydraulic Fluid - Vehicle Leak at Construction Site
W. Bloomfield Twp.	1	0	0	N/A
White Lake Twp.	1	0	0	N/A
Totals: 17 Communities	40	22	21	

* Inspection, investigation and corrective actions at facility were conducted under OC IDEP Program

** Site under ongoing cleanup and monitoring by MDEQ and property owner

*** Ongoing evaluation of Rouge River and 8 Mile Drain being conducted under OC IDEP Program

Summary of FY 2017 WRC Pollution Hotline Complaint Investigations

Community	Number of			Source of Discharge
	Complaints	Illicit Discharges	Illicit Discharges Corrected	
Auburn Hills	1	1	1	Diesel Fuel - Vehicle Accident
Bloomfield Hills	1	1	1	Sediment - Water Main Break
Bloomfield Twp.	2	1	1	Residential - Septic System; * Generator / Fuel leak
Commerce Twp.	2	2	2	Sewage – SSO; Grease - Illegal dumping at Nursing Home Facility
Farmington Hills	1	1	1	**Sediment - Road bed washout to storm drain
Franklin Village	1	1	1	Sewage - SSO

Community	Number of			Source of Discharge
	Complaints	Illicit Discharges	Illicit Discharges Corrected	
Independence Twp.	2	0	0	***Harmful Algal Blooms on Sugden & Pontiac Lakes
Lyon Twp.	1	1	1	Hydraulic Fluid - Construction Site Equipment Leak
Oakland Twp.	1	1	1	Hydraulic Fluid - Garbage Truck leak in Residential Neighborhood
Orion Twp.	2	1	1	Spill - Liquids from Trash Collection
Madison Heights	3	2	2	Illegal dumping (2) - Paint at Commercial facility; Concrete Washout at Vacant Parking Lot
Novi	2	2	2	Antifreeze - Spill at Commercial Facility; Sewage-SSO
Pontiac	4	4	4	Hydraulic Fluid - Garbage Truck Leak at OC Complex Sewage (3) – SSO (2), ****Illegal Dumping at Apt.
Rochester Hills	1	0	0	N/A
Southfield	4	3	3	Sewage – SSO (2); Diesel Fuel - Spill at Commercial Facility
Springfield Twp.	1	0	0	N/A
Sterling Heights	1	1	1	Oil Spill - Schoenherr Drain / Red Run from unknown source
Troy	2	1	1	Sediment - Unpermitted Filling of Drain at Residential Property
Waterford Twp.	2	2	2	Detergent - Power Washing at OC Facility
West Bloomfield Twp.	4	3	3	Sewage- SSO (2); Illicit Discharge – Dye / Algaecide from Res. Fountain
White Lake Twp.	2	1	1	Hydraulic Fluid – Garbage Truck Leak in Residential Sub
Totals: 21 Communities	40	29	29	

Outfall/Discharge Point Surveys and Illicit Discharge Investigations

WRC continues to conduct stormwater outfall/discharge point surveys 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 2016, surveys were conducted at 51 outfall/discharge points located along 39 County Drains in 14 communities within the Rouge and Clinton River watersheds. Below is a summary of all of the WRC County Drain inspections by community in the Rouge and Clinton River watersheds for FY 2016, and it is indicated whether or not a suspected discharge was found and if the illicit discharge was corrected.

FY 2016 Summary of WRC County Drain Dry Weather Screenings and IDEP Investigations

WRC Drain Name	MS4 Outfalls / DPs	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Austin Drain (1)	1	Southfield	Rouge	Yes	Yes	Pending	0	Unknown
C.H. Stevens (1)	4	Bloomfield Twp.	Rouge	Yes	Yes	1	Pending	Septic System
Birdsland Drain	1	Waterford	Clinton	Yes	No	0	0	
Bloomfield Highlands Drain (1)	1	Bloomfield Twp.	Rouge	Yes	Yes	Pending	0	Unknown
Clarenceville Drain	1	Farmington Hills	Rouge	Yes	No	0	0	
Dequindre Rd Drain	1	Warren	Clinton	No	No	0	0	
Devonshire Drain (1)	1	Bloomfield Twp.	Rouge	Yes	Yes	Pending	0	Unknown
Doyon Drain	2	W. Bloomfield Twp.	Clinton	Yes	No	0	0	
Dunleavy Drain	1	Hazel Park	Clinton	Yes	No	0	0	
Eight Mile Drain	1	Southfield	Rouge	Yes	Yes	0	0	
Evergreen Rd Drain	1	Southfield	Rouge	No	No	0	0	

WRC Drain Name	MS4 Outfalls / DPs	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Flannery	3	Southfield	Rouge	Yes	No	0	0	
Fracassi Drain (1)	1	Southfield	Rouge	Yes	Yes	Pending	0	Unknown
GWK North Drain	1	Madison Heights	Clinton	No	No	0	0	
GWK South Drain	1	Madison Heights	Clinton	Yes	No	0	0	
Hazel Drain	1	Farmington Hills	Rouge	No	No	0	0	
Henry Graham Drain	2	Madison Heights	Clinton	No	No	0	0	
Josephine Drain	1	Sylvan Lake	Clinton	Yes	No	0	0	
Kaczmar Drain	1	Hazel Park	Clinton	Yes	No	0	0	
Lochaven	1	Waterford	Clinton	No	No	0	0	
Linden Drain	1	Sylvan Lake	Clinton	Yes	No	0	0	
Mainland Drain	1	Pontiac	Clinton	Yes	No	0	0	
Mclvor Drain	1	Waterford	Clinton	Yes	No	0	0	
Montante Drain	1	W. Bloomfield	Clinton	No	No	0	0	
Moore Drain	1	Pontiac	Clinton	No	No	0	0	
Oaks Drain	1	Pontiac	Clinton	No	No	0	0	
Otter Drain	1	Waterford	Clinton	No	No	0	0	
Owens Drain	3	Southfield	Rouge	Yes	No	0	0	
Oxford Ave. Drain	1	Farmington Hills	Rouge	Yes	No	0	0	
Pebble Creek Drain (2)	2	Farmington Hills	Rouge	Yes	Yes	(See Pollution Hotline Complaint Summary Table)		Broken Sanitary
Red Run Drain	1	Warren	Clinton	Yes	No	0	0	
Schmid Drain	3	Keego Harbor	Clinton	No	No	0	0	
Sherman Drain	1	Southfield	Rouge	No	No	0	0	
Tilden Drain	1	Sylvan Lake	Clinton	Yes	No	0	0	
Skae Drain	1	Pontiac	Clinton	No	No	0	0	
Southfield Rd. Drain	1	Southfield	Rouge	No	No	0	0	
U.S. 16 Drain (1)	1	Farmington	Rouge	Yes	Yes	3	Pending	Misconnected House Leads
Wilson Drain	1	Madison Heights	Clinton	No	No	0	0	
Walker Drain	1	Madison Heights	Clinton	Yes	No	0	0	
	Outfalls / DPs Screened	Communities	Watersheds	Suspect Drains	Drains Investigated	Illicit Discharges Discovered	Illicit Discharges Corrected	
Total 39	51	14	2	24	8	4	0	

In summary, during FY 2016, 26 illicit discharges were discovered by WRC during complaint investigations, discharge point surveys and follow-up investigations. Of these, a total of 21 illicit discharges were corrected with the identified sources being eliminated.

The following pollutants were removed through the County's IDEP in FY 2016:

Pollutant	Source	Rouge		Clinton		Huron		Total
		No.	Estimated amt.	No.	Estimated amt.	No.	Estimated amt.	
Sewage	Illicit Discharge	1	64,800 gal					992,025 gal
	Broken Sanitary	1	881,325 gal					
	SSO's	6	40,800 gal	3	5,100 gal			
Fuels, Oil & Grease	Vehicle Accidents	1	250 gal					300 gal
	Spills					1	50 gal	
Sediment	Construction Site			2	6,000 lbs			6,000 lbs
Hydraulic Fluid	Vehicle Accident			1	50 gal			50 gal
Transformer Oil	Leaks			1	20 gal			20 gal
Industrial Contamination	Brownfield Site			1	Not Estimated			Not Estimated
Concrete Washout	Illegal Dumping / Commercial Site			1	100 gal			100 gal

Pollutant	Source	Rouge		Clinton		Huron		Total
		No.	Estimated amt.	No.	Estimated amt.	No.	Estimated amt.	
Food Waste	Illicit Discharge			1	Not Estimated			Not Estimated
Yard Waste	Illegal Dumping			1	Not Estimated			Not Estimated

No illicit discharges were discovered in the Flint or Shiawassee River Watersheds in FY 2016.

During FY 2017, surveys and dry weather screening were conducted at 28 discharge points in 8 communities located on 16 county drains in the Rouge River and Clinton River Watersheds.

Below is a summary of all of the WRC County Drain inspections by community and watershed for FY 2017, and it is indicated whether or not a suspected discharge was found and if the illicit discharge was corrected.

FY 2017 Summary of WRC County Drain DWS and IDEP Investigations

WRC Drain Name	MS4 Outfalls / DPs	Community	Watershed	Suspected Discharges	IDEP Investigations	Discharges Discovered	Discharges Corrected	Source
Austin Drain (1)	1	Southfield	Rouge	Yes	Yes	Pending	0	Unknown
C.H. Stevens (1)	4	Bloomfield Twp.	Rouge	Yes	Yes	0	1	Septic System
Bloomfield Highlands Drain (1), (2)	1	Bloomfield Twp.	Rouge	Yes	Yes	(See Pollution Hotline Complaint Summary Table)		Septic System
Dequindre Rd Drain	1	Warren	Clinton	No	No	0	0	
Devonshire Drain (1)	1	Bloomfield Twp.	Rouge	Yes	Yes	Pending	0	Unknown
Fracassi Drain (1)	1	Southfield	Rouge	Yes	Yes	Pending	0	Unknown
GWK North Drain	1	Madison Heights	Clinton	No	No	0	0	
GWK South Drain	1	Madison Heights	Clinton	Yes	No	0	0	
Henry Graham Drain	2	Madison Heights	Clinton	No	No	0	0	
Levinson Drain (3)	2	Pontiac	Clinton	Yes	Yes	4	4	Illicit Conn. / Storage Piles
PCR 2 Drain (3)	8	Pontiac	Clinton	Yes	Yes	Pending	Pending	Oil / water separator
Red Run Drain	1	Warren	Clinton	Yes	No	0	0	
U.S. 16 Drain (1)	1	Farmington	Rouge	Yes	Yes	0	3	Misconnected House Leads
Wilson Drain	1	Madison Heights	Clinton	No	No	0	0	
Walker Drain	1	Madison Heights	Clinton	Yes	No	0	0	
Wrey Drain (2)	1	Troy	Clinton	Yes	Yes	0	0	
Total 16	28	8	2	12	9	4	8	

In summary, during FY 2017, 33 illicit discharges were discovered by WRC during complaint investigations, outfall/discharge point surveys and follow-up investigations. Of these, a total of 37 illicit discharges were corrected with the identified sources being eliminated.

The following pollutants were removed through the County's IDEP in FY 2017:

October 1, 2016 – Sept. 30, 2017

Pollutant	Source	Rouge		Clinton		Huron		Total
		No.	Estimated amt.	No.	Estimated amt.	No.	Estimated amt.	
Sewage	Illicit Discharge			1	54,750 gal			399,454 gal
	Misconnected Sanitary	3	208,050 gal					
	Failed OSDS	2	120,450 gal					
	SSOs	6	12,500 gal	2	3,704 gal			
Fuels, Oil & Grease	Illicit Connection			1	Not Estimated			300 gal
	Spills / Accidents	1	50 gal	2	250 gal			
	Illegal Dumping					1	Not Estimated	
Sediments	Construction Site			1	14,080 lbs			14,080 lbs
	Illegal Dumping			1	Not Estimated			
	Road Bed Washout	1	Not Estimated					
	Water Main Break	1	Not Estimated					
Soap Suds / Detergents	Illegal Dumping			1	20 gal			10,420 gal
	Illicit Connections			3	10,400 gal			
Hydraulic Fluid	Spill / Vehicle Leak			2	40 gal	2	40 gal	80 gal
Paint	Illegal Dumping			1	Not Estimated			Not Estimated
Concrete Washout	Illegal Dumping Vacant Lot			1	Not Estimated			Not Estimated
Garbage Waste (Liquid)	Garbage Truck Spillage			1	Not Estimated			Not Estimated
Antifreeze	Spill	1	20 gal					20 gal
Dye / Algicide	Illicit Discharge	1	500 gal					500 gal
Pet Waste	Illegal Dumping			1	300 lbs			300 lbs

No illicit discharges were discovered in the Flint or Shiawassee River Watersheds in FY 2017.