
Oakland County Phase II Storm Water Annual Progress Report Summary for Community Use Prepared by the Oakland County Drain Commissioner's Office October 1, 2006 – September 30, 2007

The Oakland County Drain Commissioner's Office has prepared the following summary to assist Oakland County communities in preparing their Phase II Storm Water Annual Progress Report. The following items represent projects implemented by Oakland County during fiscal year 2007 to protect and restore water resources in Oakland County. A complete copy of Oakland County's 2007 Storm Water Annual Progress Report will be available on the Oakland County Web site, www.oakgov.com/drain, after November 1, 2007. For additional information on the projects listed below or other environmental programs offered by OCDC please contact our Environmental Team at 248-858-0958 or envreq@oakgov.com.

Project Summary

Stream Flow Gauges

The OCDC financially supported the collection of stream flow data at nine United States Geological Survey (USGS) stream gauges in Oakland County. These gauges are located at Sashabaw Creek and the Clinton River in Waterford, Paint Creek in Rochester, the Rouge River in Southfield, the Clinton River in Auburn Hills, the Upper Rouge River in Farmington, the Evans Ditch in Southfield, the Rouge River in Birmingham and the Franklin Branch in Birmingham. The data can be accessed from the USGS Web site at: <http://waterdata.usgs.gov/mi/nwis/rt>.

Clinton River Basin – Watershed Initiative

The OCDC received a \$670,000 Environmental Protection Agency (EPA) grant to complete a comprehensive Clinton River Watershed Initiative to integrate existing Clinton River Watershed information and generate easy-to-use tools that will promote coordinated local decision-making and action. Four planning and implementation tools are being developed as part of this project. They include:

- Watershed information management system,
- Watershed model,
- Site evaluation tool to assist stakeholders in selecting best management practices
- Update to the Remedial Action Plan.

This project will provide tools that can be used to assist communities and local stakeholder groups with their ongoing watershed management efforts to improve water quality in the Clinton River Watershed. For more information on this project please visit the OCDC Web site at www.oakgov.com/drain/projects.

Oakland County Water Resources Planning Inventory

The OCDC received an EPA grant to complete a comprehensive water resources master plan. This project includes a number of tasks including developing a geographic information system based Water Resource Atlas of Oakland County, educational programs including watershed

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signage, and studies to investigate water quality, quantity and infrastructure issues in various drains. Work started in 2006 and will be completed in late 2007.

Countywide Green Infrastructure Vision Map & Greenways Planning Support

Oakland County's Green Infrastructure Visioning Project focuses on identifying an interconnected network of green space that conserves natural ecosystem values and functions, guides sustainable development, and provides associated economic and quality-of-life benefits to our communities. Oakland County Planning and Economic Development Services (OCPEDs) has completed mapping for the following communities: Addison, Auburn Hills, Beverly Hills, Bingham Farms, Bloomfield Hills, Bloomfield, Franklin, Groveland, Highland, Lake Orion, Lathrup Village, Novi, Oakland, Orion, Oxford, Rochester Hills, Rochester, Southfield, Springfield, Waterford and Wixom. Plans are underway to map additional communities.

Sample Ordinances

OCPEDs has compiled a list of sample ordinances for municipalities to utilize to protect water quality and resource protection which are available on the Oakland County Web site at www.oakgov.com/es. This service was made available to 12 communities participating in the Green Infrastructure Planning Process in 2007.

Public Education Summary

Oakland Lakefront Magazine Advertisements

Public education messages were placed in the April to October issues of Oakland Lakefront magazine. The messages included pet care, fertilizers, household hazardous waste disposal, earth-friendly landscaping, car care, and storm drain awareness. Oakland Lakefront is published monthly and reaches approximately 19,000 homeowners on the waterways of Oakland County.

Kids' Calendar Contest

OCDL received nearly 400 student entries from fourth and fifth grade students throughout Oakland County for the 2007 Calendar Contest. Winning entries were included in 5,000 calendars that were distributed to municipalities, businesses and schools throughout Oakland County.

Water/Sewer Bill Stuffers

Materials from the Partners for Clean Water Seven Simple Steps campaign were included in OCDL's quarterly water/sewer bills. Information distributed included the Seven Simple Steps brochure and the Household Hazardous Waste, Earth-Friendly Landscaping, Fertilize Sparingly and Caringly tip cards.

More than 43,000 customers in the following communities received the brochures or tip cards: Farmington Hills, Bloomfield Hills, Bingham Farms, Commerce, Wolverine Lake, White Lake, Royal Oak Township, Oxford Township, Highland, Oakland, Lyon, Franklin, Keego Harbor, and Orchard Lake.

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Oakland County Dirt Doctors Program

The Dirt Doctors program was 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 program. During fiscal year 2007, the OCDC Dirt Doctors educated over 1,400 students at 46 presentations in Bloomfield Hills, Lake Orion, Rochester, Davisburg and Waterford.

Watershed Signage

OCDC used grant funds to purchase Huron River Watershed signs for the Kent Lake and Upper Huron Watersheds in 2007. Nearly 160 signs were lettered and installed as part of this effort to raise residents' awareness of the Huron River. The following communities participated in the sign purchase: Commerce, Highland, Lyon, Waterford, West Bloomfield, White Lake, Springfield, Novi, Walled Lake, Wixom and Wolverine Lake, and Milford.

Cable Television Programs

OCDC partners with Bloomfield Township Cable TV to create cable television shows geared toward environmental issues. H₂Oakland cable television shows feature OCDC employees and others who have specialized expertise in various disciplines associated with environmental protection. This year, H₂Oakland added four new shows increasing its library to 34 shows. A tape of each of the four new shows will be distributed to every cable outlet in Oakland County. The cable shows taped in 2007 are:

- Water Maintenance
- Stream Restoration in Oakland County
- Soil Erosion
- Walking Tour of Three Retention Basins

Clinton River Water Festival

The OCDC was part of the planning committee to present the first Clinton River Water Festival at Oakland University on May 17, 2007. The event reached 966 fifth grade students from 18 schools in the following 14 communities: Auburn Hills, Berkley, Bloomfield Hills, Ferndale, Hazel Park, Madison Heights, Oak Park, Oxford, Pontiac, Rochester, Rochester Hills, Royal Oak, Southfield and Waterford. The next Clinton River Water Festival will be held on May 22, 2008 at Oakland University.

Rouge River Water Festival

The OCDC again partnered with the Cranbrook Institute of Science to present a water festival for the Oakland County portion of the Rouge River Watershed. The fifth annual Cranbrook Water Festival provided an educational and enjoyable learning experience that supports the objectives of school science programs for fifth grade students. The 2007 water festival played host to more than 1,200 participants from 25 elementary schools. Cranbrook and OCDC plan to continue the water festival in 2008. Schools participated from the following communities: Auburn Hills, Birmingham, Bloomfield Hills, Farmington, Farmington Hills, Franklin, Novi, Pontiac, Rochester, Rochester Hills, Southfield, and Walled Lake.

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Clinton River Review

On September 21, 2007, more than 150 people were on hand at Oakland University to hear presentations related to the protection and restoration of the Clinton River Watershed. Presentations included an assessment of the Clinton River fisheries and local initiatives to protect storm water. Peter Annin, author of “The Great Lakes Water Wars” was the keynote speaker. Attendance at the event is a great way to educate local decision makers about issues in the Clinton River Watershed.

Illicit Discharge Elimination Program Summary

Environmental Hotline

Oakland County continues to staff the 24-hour environmental hotline. Complaints are logged in a database and referred to the appropriate agency for action. Oakland County received 55 complaints in 25 communities during the reporting period. Investigation of these complaints resulted in the identification of 30 illicit discharges. Of these, 28 have lead to the identification of a discharge source that was corrected and eliminated. One investigation of a spill did not lead to the discovery of a discharge source and one other spill has been remediated but remains under investigation as to the source of the discharge.

Summary of OCDC IDEP Complaint Investigations for 2006-2007

Community	Number of			Source of Discharge
	Com-plaints	Illicit Discharges	Illicit Discharges Corrected	
Addison Township	1	1	1	Mercury spill - self storage facility
Auburn Hills	3	2	2	Diesel fuel spill, soil erosion - construction site
Berkley	1	0	0	NA
Bloomfield Hills	1	0	0	NA
Bloomfield Township	1	0	0	NA
Brandon Township	2	1	1	Soil erosion - construction site
Commerce Township	2	1	1	Transmission fluid leak, commercial vehicle
Farmington	1	1	1	Sanitary sewage, subdivision
Farmington Hills	9	5	5	Car wash discharge, car wash catch basin cleanout, grease dumping (2), gasoline spill
Franklin Village	1	1	1	Soil erosion, residential pool excavation
Hazel Park	1	0	0	Oil leak – vehicle to combined system
Independence Township	1	0	0	NA
Lake Orion Village	2	2	2	Grease dumping - restaurant, gasoline spill
Lyon Township	2	2	2	Soil erosion - construction site, sanitary overflow - lift station

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Community	Number of			Source of Discharge
	Com-plaints	Illicit Discharges	Illicit Discharges Corrected	
Milford	1	1	1	Illicit discharge - construction site
Novi	2	1	1	Diesel fuel spill - commercial vehicle
Pontiac	3	1	1	Transformer oil (non-PCB) - vacant property
Royal Oak	1	0	0	NA
Southfield	4	1	1	Diesel fuel - vehicle leak
South Lyon	1	0	0	NA
Troy	3	3	2	Oil - vehicle leak, sewage - residential connection, soap (unknown source)
Waterford Township	5	2	2	Airport accident, spill
West Bloomfield Township	5	4	4	Pool filter connection - residential, ditching operation - residential, illegal dumping concrete / grout (2)
Wolverine Lake	1	0	0	NA
Macomb County	1	1	0	Oil (Unknown source), Schoenherr Drain
Totals	55	30	28	--

Outfall Surveys and Dry Weather Investigations

OCDC continues to investigate county drains during dry weather to locate pollutant sources. During this reporting period outfall surveys were conducted on 36 county drains located in eight communities within the Clinton River Watershed. Twenty county drains suspected of containing illicit discharges were walked and surveyed locating 396 inlets to the drains. In addition, OCDC partnered with the Road Commission of Oakland County to examine discharges from subdivision road drains to inland lakes in the headwaters of the Clinton River Watershed. During this period, 254 subdivisions were surveyed in nine communities locating 844 outlets.

Testing and screening of these inlets has led to the identification of 17 suspected illicit discharges. Investigation of these discharges has led to the identification and elimination of four discharge sources. Of the remaining 13 illicit discharges, 11 are under investigation or corrective action is being taken by Oakland County, the local municipalities or other appropriate enforcement agencies. Two illicit discharges have been investigated and closed with no discharge source being found. An additional 178 county drains with suspected illicit discharges are scheduled to be investigated in 2007 / 2008. Follow up investigations from previously reported discharges have resulted in an additional four illicit discharges being eliminated.

Illicit Discharge Elimination Program Summary

In summary, during Fiscal Year 2007, 51 illicit discharges were discovered during complaint investigations, outfall surveys, and follow-up investigations. Thirty-six illicit discharge investigations were closed with 33 identified sources eliminated and the remaining three were

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closed with no sources found. Fifteen illicit discharges remain under investigation or are in the process of being corrected through enforcement action.

Oakland County Drains Surveyed During 2006-2007

Drain Name	Community	Suspected Discharges	Discharges Discovered	Discharges Corrected	Source
Beechmont	Keego Harbor	No	NA	NA	NA
Birdland	Pontiac	No	NA	NA	NA
Brewer	Pontiac	Yes	1	1	Broken Sanitary
Campbell 2	Hazel Park	Yes*	0	0	Unknown
Dequindre Rd.	Madison Heights	No	NA	NA	NA
Dunleavy	Madison Heights	Yes*	1	0	Unknown
Ferry	Troy	No	NA	NA	NA
Fredericks	Troy	Yes	1	1	CB Screenings
GWK South	Madison Heights	Yes*	2	0	Sanitary, CB Screenings
GWK North	Madison Heights	Yes*	1	0	Unknown
Halfpenny	Troy	No	NA	NA	NA
Henry Graham	Troy / Madison Heights	Yes (Scheduled)	1	0	Unknown
Houghten	Troy	No	NA	NA	NA
Jackson Phase 2	Troy	Yes*	0	0	
Kazmar	Madison Heights	Yes*	0	0	Unknown
Josephine	Pontiac / Sylvan Lake	No	NA	NA	NA
Kutchey	Madison Heights	Yes*	1	0	Unknown
Keego Harbor	Keego Harbor	No	NA	NA	NA
Linden	Pontiac	No	NA	NA	NA
McCoy	Madison Heights	Yes*	1	0	Unknown
Moore	Pontiac	Yes*	1	0	Unknown
Moxley Phase 3	Troy	Yes*	1	0	Unknown
Red Run Warren	Madison Heights	No	NA	NA	NA
Sharkey Relief	Madison Heights	No	0	0	NA
Silvercrest	Waterford	No	NA	NA	NA
Shanahan	Troy	Yes*	0	0	
Spencer	Troy	Yes*	1	0	Unknown
Sturgis	Troy	No	NA	NA	NA
Susan	Troy	Yes*	1	0	Unknown
Tilden	Pontiac / Sylvan Lake	No	NA	NA	NA
Tuttle	Pontiac / Waterford	Yes	1	0	Misconnected Sanitary
Voght	Troy	No	NA	NA	NA
Walker	Madison Heights	Yes*	0	0	Unknown
Ward Orchards	Pontiac / Bloomfield Twp.	No	NA	NA	NA
West End	Pontiac / Waterford	Yes*	3	2	Misconnected Sanitary, (2) Unknown sources
Wilson	Madison Heights	Yes*	0	0	Unknown
Totals		20	17	4	--

* Indicates an ongoing investigation