



Phase II Stormwater Permit Periodic Report
September 2011 – June 2013

Michigan General Permit Number: MIG619000

Certificate of Coverage Number: MIG610039

Agency: Washtenaw County

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Date: September 26, 2013

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A handwritten signature in cursive script that reads "Evan N. Pratt".

Evan N. Pratt

Washtenaw County Water Resources Commissioner

I. INTRODUCTION/BACKGROUND

This document fulfills Washtenaw County's NPDES Phase II stormwater permit requirement for a periodic Progress Report. This report includes information on progress made during the September 2011 through June 2013 time period towards compliance with the six minimum measures and other commitments made in Washtenaw County's Stormwater Pollution Prevention Initiative (SWPPI). This document also reports on the assessment of water quality in the area affected by Washtenaw County's stormwater discharge along with any changes made to Best Management Practices (BMPs) or Watershed Management Plans (WMP).

The report is organized by the six minimum measures, with additional reporting sections at the end. Based on the nature of our partnership with the Huron River Watershed Council (HRWC), they have provided language for various sections including the water quality data, public participation plan, and public education.

II. WATER QUALITY DATA, ASSESSMENT AND STRESSOR UPDATE

Permittees within the Middle Huron River Watershed agreed to work with the HRWC to develop and conduct a water quality monitoring program to collect data and assess the water quality within the river and tributaries. There are five stormwater related TMDLs in the middle Huron River watershed. While the permit does not specifically require reporting on TMDLs, Washtenaw County and watershed partners have funded monitoring to determine progress toward meeting each TMDL. This monitoring program is also used to determine status and trends of water quality within the middle Huron River watershed affected by stormwater discharges. The HRWC submitted a plan for this monitoring as an appendix to SWPPIs submitted by permittees within the watershed. That plan was titled "Middle Huron Stormwater Plan for Addressing Total Maximum Daily Loads (TMDLs)." Subsequently, HRWC had conducted water quality monitoring each year between April and September. They will report the results of this monitoring following the inclusion of results through September. Reports are available for 2001 through 2012 via the SAG website at www.hrwc.org/middle-huron-sag/.

Much of this data analysis was also included in the evaluation of four water quality impairments within the watershed. Based on this analysis and discussion with the SAG, implementation plans were developed and submitted to MDEQ for each of the following four TMDLs:

- Ford Lake and Belleville Lake – impaired for excessive phosphorus
- The Huron River between Argo and Geddes Dams – impaired for pathogens
- Malletts Creek – impaired for aquatic life and habitat
- Swift Run -- impaired for aquatic life and habitat

Those four plans were finalized at the end of October 2011. All plans are posted on the SAG website at www.hrwc.org/middle-huron-sag/.

In addition to those four impairments, a TMDL was also developed for Honey Creek (pathogens) in 2009. HRWC received funding, with support from the Middle Huron SAG to monitor and develop an implementation plan for that impairment in 2011-13. A report on the monitoring results is being finalized and a draft WMP is currently under review by MDEQ. Details and products on that project can be found at www.hrwc.org/honey-creek/. No additional watershed stressors beyond those listed above and others originally listed in the WMP have been identified.

Common Abbreviations

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Also see the 2011 & 2012 Rouge River Progress Reports for water quality information at www.rouge.com/pdfs/overview/2011_Progress_Report_072512.pdf and allianceofrougecommunities.com/PDFs/technical/2012_RREMAR_FINAL.pdf.

III. PUBLIC PARTICIPATION PLAN (PPP)

A Public Participation Plan was most recently developed for most permittees in the middle Huron River watershed and submitted to the MDEQ in July 2009. It was revised and resubmitted in July 2010. A Watershed Management Plan (WMP) for the Middle Huron River was approved by MDEQ in 2008. Since that time, the permittees within the Middle Huron River Watershed have focused on implementing activities within the WMP and have additionally developed specific implementation plans to address water quality impairments. These activities are reported in other sections of this report.

Review and revision of the WMP

The 2008 version of the WMP was reviewed and updated by the Huron River Watershed Council (HRWC) in 2010-11. It was then made available for public review via HRWC's website. The WMP was finally revised and submitted to MDEQ in November 2011. The WMP is currently available to the public via the Huron River Watershed Council's (HRWC) website at www.hrwc.org/publications/watershed-management-plans/ (number 7 on the list). During that same time, the following TMDL Implementation Plans were developed or revised and submitted to MDEQ:

- Malletts Creek (biota impairment)
- Swift Run (biota impairment)
- Ford and Belleville Lakes (nutrient impairment)
- Argo to Geddes section of the Huron River (bacteria impairment)

The above plans are all referenced in the umbrella WMP and are available through the Middle Huron Stormwater Advisory Group (SAG) website at www.hrwc.org/middle-huron-sag/.

Citizen Advisory Committee

In 2008 the permittees within the Middle Huron River Watershed formed the Middle Huron Stormwater Advisory Group (SAG). This is a forum, open to the public, for planning, discussion and reporting on stormwater treatment and management practices. During the reporting period, the SAG met on the following dates:

- September 13, 2011
- December 6, 2011
- April 30, 2012
- September 18, 2012
- December 5, 2012
- July 10, 2013

Requests for meeting agendas and lists of attendees to the meetings should be directed to Ric Lawson the SAG facilitator (rlawson@hrwc.org, 734-769-5123 ext.609).

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Creekshed Participation

In addition to the SAG meetings, HRWC and SAG partners also facilitate public meetings focused on planning and implementation activities within high priority tributaries. These groups include the Malletts Creek Coordinating Committee (MC3), the Millers Creek Advisory Team (MCAT), and the Fleming Creek Advisory Committee (FCAC). The MC3 and MCAT meet monthly as needed and FCAC meets as development proposals or other issues arise pertaining to that tributary. A list of meeting dates, attendees lists and agendas can be requested from Ric Lawson.

Water Resources Commissioner's Office staff participates in the Malletts Creek Coordinating Committee, Allen Creek Greenway Conservancy and the Millers Creek Advisory Team. The WCWRC is also a member of the River Raisin Watershed Council.

Rouge River Watershed Participation

The Washtenaw County Water Resources Commissioner's Office staff participates in the Alliance of Rouge Communities (ARC) on behalf of Washtenaw County, actively attending and participating in the Executive Committee and periodically in the Public Information & Education, Technical and/or Organization Committees. An updated watershed management plan for the Rouge River Watershed was submitted by ARC Staff and was approved by MDEQ in July 2012.

WCWRC participated in approximately 20 creekshed and ARC meetings during the reporting period.

IV. PUBLIC EDUCATION PLAN

The Washtenaw County Public Education Plan (PEP) includes the continuation of programs that promote, publicize, and facilitate watershed education and stress each citizen's role and responsibility to protect local waterways. The 22 existing PEP activities in the Washtenaw County Stormwater Pollution Prevention Initiative (SWPPI) continue to be implemented and specified details and/or updates are included below. Data and/or language from the Huron River Watershed Council (HRWC) is included under specific activities, where applicable. Following is a summary of the progress made on PEP implementation.

Activity 1 - HRWC and/or Southeast Michigan Partners for Clean Water Informational Materials

Materials are distributed at the appropriate County Offices and made available online for distribution at events upon request. At times the information is posted on our website (www.ewashtenaw.org) or on the WCWRC's Office Facebook page (www.facebook.com/WCWRC).

The SouthEast Michigan Council of Governments (SEMCOG) website includes reports on Partners for Clean Water activities and materials at: <http://www.semco.org/PrinterFriendly.aspx?id=2722>.

HRWC

Brochures, tip cards, posters, and other materials developed by HRWC or the regional public outreach campaign, "Our water. Our future. Ours to Protect." were distributed by individual jurisdictions.

These materials contain information that covers required Topics 1-8. The overall campaign promotes key messages on proper use of fertilizer, car care, landscaping, storm drain awareness, household hazardous wastes, water conservation, pet care and riparian protection.

Common Abbreviations

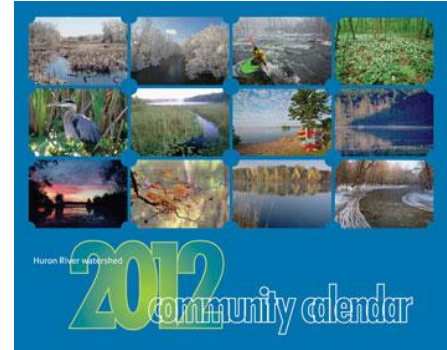
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During the reporting period the Southeast Michigan Partners for Clean Water met periodically to review existing materials and propose updates and revisions to the campaign messaging and delivery methods.

Activity 2 - Community Watershed Calendar

HRWC

September 2011 through January 2012 – HRWC and participating communities produced, printed, and distributed 37,000 2012 Watershed Community Calendars presenting two years of monthly informational pollution prevention tips targeted to homeowners in a single printed piece. The print calendar included two full pages per month for 2012 and an abbreviated three-page 2013 version, there was also an online option of downloadable 2013 replacement pages for residents wishing to re-use the two-page version. The tips and provided resources related to permit topic requirements such as illegal dumping, fertilizer and yard care, rain barrels, pet waste, car care, rain gardens and native plants, home toxics, storm drain awareness and general watershed education.



The 2012 Watershed Community Calendar also included a special call to action to take an online survey (see PEP Evaluation section below).

13 communities distributed 34,000 calendars to residents either through direct mail(*), at customer service counters or through other channels.

City of Brighton*	3200
Livingston County Drain Commission	500
Livingston County Road Commission	200
Village of Pinckney	900
Brighton Township	200
City of Ann Arbor*	22,000
Ann Arbor Public Schools	500
Village of Dexter	500
Washtenaw County Water Resources Commissioner	300
Pittsfield Township	500
City of Ypsilanti	1500
Charter Township of Ypsilanti	2500
Eastern Michigan University	600
Washtenaw County Road Commission	100
Barton Hills Village	160
Marion Township	500
Huron River Watershed Council	2000

3000 calendars were also provided to over 80 entities (see below) for employees and public distribution, including distribution by HRWC at key organizational events and promotion of the

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calendar thorough HRWC's direct mail printed newsletter (2,000 recipients), marketing emails (4000+ recipients), home page blog, and social media announcements on Facebook.

Ann Arbor Community Cntr	Mack Pool
Ann Arbor Hans-On Museum	Main Branch AADL
Arbor Farms	Michigan League
Argo Livery	Michigan Union
Arrowood Coop	Mr. Stadium
B-24's (NEW) Coffee Shop	Natural History Museum
Bank of Ann Arbor*	Neutral Zone
Big City Small World Café	NEW Center
Bivouac	Nicola's Books
Bryant Community Center	Northwood Community Cntr
Buhr Park	Peace Neighborhood Center
Carrillon Chocolate	People's Food Coop
CC Little (Geology) Bldg	Pierpont Commons
Chemistry Bldg	REI
Cnty Frm Prk, Murry Rec	Reinhart Realtors*
Concordia College	Shapiro Undergrad Library
Crazy Wisdom Bookstore	Smoothie King
Dawn Treader Book Shop	SNRE (Dana) Bldg
Downtown Home & Garden	Starbucks Coffee
Ecology Center	Sweetwaters Café
EH Kraus (Nat Sci) Bldg	Sweetwaters Café
Elevators, City Hall	The Corner Brewery
EMU Biology Dept.	The Ugly Mug Coffee Shop
EMU Geology Dept	Thomson Reuters*
EMU Student Center	Tommy Thomson Florist
Espresso Royale	Toyota Technical Center*
Farmer's Market	Turner Senior Resource Center
Food Co-op	U of M Career Center
Friends Meeting House	UM Art & Arch Bldg
Fuller Park	UM Botanical Gardens
Gallup Park	UM Program in Environment
Hatcher Grad Library	Undrgrad Resrch Op Prog.
Huron Hills Golf Course	Vets Park Pool and Rink
Islamic Center of AA	Wash Comm College
Jewish Community Center	Washtenaw Alano Club
Jolly Pumpkin	Wheeler Service Center
Kerrytown Shops*	Whole Foods
KeyBank*	Whole Foods
Legacy Land Conservancy	YMCA
Leslie Park Golf Course	Ypsilanti District Library
Livingston Land Conservancy	Ypsilanti District Library

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Lobby, City Hall
MacFarland Tree Service

Zen Buddhist Temple
Zingerman’s Next Door

Washtenaw County provided approximately 150 of its 300 calendars via mail to Community Partners for Clean Streams program participants. Extra calendars were also made available at the WCWRC offices or distributed at events to the general public.

Activity 3 - Information in Community Newsletters and on Websites

Washtenaw County utilizes the following methods to distribute environmental, stormwater and water quality information to the public:

Website

Washtenaw County utilizes the www.ewashtenaw.org website to provide county residents, businesses and other interested individuals with information about county-specific programs and events. See Table 1 below for page views of specific county websites.

Table 1: Number of page views of specific county websites with environmental information

Website Address	Page Views	Unique Page Views
Washtenaw County Homepage (www.ewashtenaw.org)	5,573,936	3,831,566
Water Resources Commissioner’s (WRC) Office (www.ewashtenaw.org/government/drain_commissioner)	71,104	48,152
WRC Stormwater Permit (www.ewashtenaw.org/government/drain_commissioner/stormwaterpermit)	1,375	981
WRC Water Quality Programs (www.ewashtenaw.org/government/drain_commissioner/dc_webWaterQuality)	21,073	13,679
Environmental Health (www.ewashtenaw.org/government/departments/environmental_health)	328,546	233,799
Healthy Home Portal (www.ewashtenaw.org/living/environmental_health_and_services/healthy_home_portal/)	13,284	9,065
Healthy Community Portal (www.ewashtenaw.org/living/environmental_health_and_services/healthy-community-portal/)	4,643	3,073
Recycling, Home Toxics & Solid Waste (www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics)	17,772	8,913
Fats, Oils and Grease Information (www.ewashtenaw.org/government/departments/environmental_health/food_safety/eh_fatsoilsgrease.html)	456	352
Water Protection Activities (www.ewashtenaw.org/government/departments/environmental_health/water_protection_activities)	791	514

Email Distribution Lists

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The WCWRC's Office disseminates information via two separate email distribution lists with the following number of participants; RiverSafe Homes (1,759) & Community Partners for Clean Streams (130). During this reporting period an electronic newsletter highlighting lawn care practices, rain barrels and native plants was distributed. Copies of the newsletter are available upon request.

Social Media (Facebook/Twitter/YouTube)

A variety of Washtenaw County departments utilize social media as a way to distribute current information and events to interested individuals (www.ewashtenaw.org/news/social-media). Twitter is used by the Washtenaw County Administration, Emergency Management Division and Public Health Department to share news and emergency alerts. Both the Public Health Department and Water Resources Commissioner's Office use Facebook to share environmental-related information. As of this report, the Public Health Department (www.facebook.com/wcpublichealth) has over 600 friends and the WCWRC's Office (www.facebook.org/WCWRC) has over 110 friends and growing.

Community Newsletters

Upon request, the WCWRC's Office will provide water quality and stormwater specific information to communities for distribution in their local newsletters or websites.

HRWC

Seasonal newsletter inserts of tips and information on nonpoint source pollution prevention topics are developed by HRWC annually and made available in pdf format for community use on www.hrwc.org/our-work/programs/middle-huron-sag/ (under Public Education Materials).

These materials also include a series of 12 advertisements in various sizes and formats (jpeg, pdf) that correspond to the 2012 Watershed Community Calendar branding, monthly topics and messaging.

Additionally HRWC publishes announcements, articles, tips and promotions that focus on nonpoint source pollution prevention and water quality information using the following distribution channels:

- www.hrwc.org (96,503 page views and 61,985 unique page views overall during reporting period – 63% new visits).
- www.facebook.com/huronriver (657 followers on September 20, 2011 growing to 1,279 followers as of August 27, 2013).
- Monthly e-mail newsletter (4,159 average monthly contacts with an average open rate of 19%).
- Printed quarterly newsletter (direct mailed to over 2,000 HRWC members and distributed to the following watershed libraries: Huron High School, Ann Arbor District, South Lyon, Milford, Chelsea, Belleville, Flat Rock, Pinckney, Ypsilanti District, Brighton Public, Dexter District).

The featured landing page of the calendar and ads, www.hrwc.org/h2oheroes and homeowner tips pages in the "Take Action" section, www.hrwc.org/take-action had the following results over the reporting period:

- www.hrwc.org/h2oheroes (featured landing page of calendar and ads) 171 page views with 176 unique page views.
- www.hrwc.org/take-action/capture-rain (content pages featuring rain gardens, rain barrels and native plants) – 2,838 page views with 2,180 unique page views.

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- www.hrwc.org/take-action/water-pollution (content pages featuring nonpoint source pollution prevention tips) – 1,712 page views with 1,281 unique page views.

Activity 4 - Local Newspaper and Web Advertisements

Newspaper Advertisements

Advertisements for the Community Partners for Clean Streams program were run in November 2011 and December 2012 in the Ann Arbor Observer.

Web Advertisements

In addition to the advertisements in the printed news, an online advertisement for the Community Partners for Clean Streams program ad was run throughout November 2012 on the Ann Arbor Observer website.

HRWC

2012 – 12 months of print ads were placed in the Ann Arbor Observer going to City of Ann Arbor residents with a circulation of 60,000 and a readership of 120,000. See ads at www.hrwc.org/our-work/programs/middle-huron-sag/ (under Public Education Materials).

Ads resembled and reinforced the 2012 Watershed Community Calendar messaging, promoting the dedicated campaign web site, www.hrwc.org/h2oheroes and containing detailed information and additional resources.

Activity 5 - Promote Water Resource Protection Workshop

Washtenaw County offered the following workshops, seminars, and/or trainings during the reporting period:

Fats, Oils and Grease Workshop

Public education workshop targeted toward restaurants. This workshop was held on June 28, 2012 and was a collaborative effort between Pittsfield Township and the WCWRC's Office. The session was attended by seven (7) restaurants, a participants list is on file with Pittsfield Township.

Stormwater 101, Pittsfield Township Homeowners Association

The WCWRC's Office presented information about storm drains and detention/retention basin maintenance on May 1, 2013 at an evening seminar hosted by Pittsfield Township. A variety of public education materials were available at the seminar including the Homeowner's Handbook and FOG information.

Master Rain Gardener Program

The Washtenaw County Master Rain Gardener class was offered for five weeks during March 1-29, 2012 and January 16-February 13, 2013. Please see the full description under Activity 20 – Residential Rain Garden Program.

HRWC

Across the entire reporting period, HRWC organized and promoted the following community events/workshops incorporating water quality and nonpoint source pollution prevention informational materials:

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- Water Quality Monitoring volunteer trainings, March 2012, 2013
- Educator Trainings, April, 2012
- Soil Erosion Seminar, May 15, 2012
- Volunteer Data Sharing, October 29, 2012
- Small Dam Owners Workshop, December, 13, 2012
- Sectional River Clean-ups, Summer 2012, 2013
- River Round-Up, April and October, 2012, 2013
- Stonefly Search, January, 2012, 2013
- Rain Barrel Distribution, May 18, 2013
- Riparian Landowner meetings (3), May-June, 2013
- Huron River Walks, May 29; June 22; July 9, 2013
- Green Infrastructure Workshops, June 5, 2012; February 28; May 16; June 5; July 2, 2013
- Huron River Paddle and Education Trips (9 total), Summer 2012, 2013

Other workshop opportunities are distributed to the MHI SAG partners via email from HRWC.

Activity 6 - Promote and Support Volunteer Stream Monitoring

The WCWRC's Office continues to fund the Adopt-a-Stream program on an annual basis. Volunteer stream monitoring events are promoted periodically via the WCWRC's email distribution lists and/or through the WCWRC Facebook page, www.facebook.com/WCWRC.

HRWC

In 2011, 2012 and 2013 HRWC hosted several activities or monitoring events that inspire the protection of local fresh water resources. One event measures the physical conditions (described below) and the other event ("bio-monitoring") measures the aquatic invertebrate community.

In bio-monitoring events, held in January (Stonefly Search), April (River Roundup) and September (River Roundup), volunteers spend the day as part of a small research team, examining the conditions of two streams. Streams are selected to be strikingly different in quality. Each team collects samples of creatures (macroinvertebrates). They notice immediately that one stream is teeming with life while the other appears nearly "dead". This comparative difference is an effective way for residents to discover for themselves that some local streams have deteriorated while others remain healthy. The discovery usually leads to inquiry about the causes of stream deterioration, the conditions of their local stream, and possible solutions.

A follow-up report and annual presentation by HRWC responds to volunteer concerns by providing results of the monitoring events and an explanation of the primary causes of local stream deterioration, tools to address local stream issues and "tip cards" or information for homeowners and other residents on protecting water quality.

Annually in the summer volunteers measure the physical conditions of streams. They learn to "read a river" by studying the conditions that affect the ecological health of the sites. Participants form small teams to complete an evaluation of at least one site.

HRWC's program serves the entire watershed, a 900-square mile area that drains into the Huron River and then into Lake Erie. The area includes approximately 525,000 residents and parts of seven counties in southeastern Michigan, primarily Livingston, Oakland, Washtenaw, and Wayne Counties. The pool of volunteers, who live in many of the 67 watershed communities, is currently around 600, with up to 180 routinely participating in each event.

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Additionally, HRWC operates a Water Quality Monitoring Program on behalf of partners in Washtenaw and Livingston Counties. This program, which utilizes volunteer sample collectors, is described in more detail in the Water Quality Data and Assessment section.

Activity 7 - Catchbasin/Storm Drain Labeling

Over 750 “Dump No Waste – Drains to the River” catchbasin markers were distributed by Washtenaw County through the Community Partners for Clean Streams Program for business and institution sites and through the Homeowners Handbook Program for subdivision catchbasins during the reporting period. Reusable mylar stencils are also made available upon request. Door hangers that explain the catchbasin marker installation were placed on the front doors of approximately 600 dwellings.

HRWC

Adopt-a-Stormdrain Program

Stormdrain awareness is a priority for public education efforts of stormwater phase I and II regulated communities. Historically, many communities have labeled and marked stormdrains with language that explains that they go directly to the local surface waters. This effort was usually combined with the distribution of door hangers that provided more detailed information about stormwater, non-point source pollution and the proper disposal of motor oil, grass clippings, pet waste, and other pollutants. With many of the urban stormdrains now labeled/marked, the effort has shifted to maintenance by local street or public works staff.

In 2010 the Middle Huron Stormwater Advisory Group members began development of an Adopt-A-Stormdrain program for key areas of Washtenaw County. The program is designed to recruit public and private partners to take sustained action to keep stormdrains labeled, clear and clean by working with a committed group of individuals. These volunteers also report problems to the local governments and serve as the neighborhood watchdogs and educators.

During the reporting period, HRWC developed the program format and structure, creating waivers, intake and reporting forms, instructions and tips, etc. See www.hrwc.org/our-work/programs/adoptastormdrain/. Volunteers participated in the program by clearing debris from and applying new “Dump No Waste, Drains to River” markers to stormdrains and distributing informational door hangers to nearby neighborhood residences.

- University of Michigan groups worked South and West of the University Campus in the City of Ann Arbor. Approximately 200 plaques glued and an estimated 700 fliers were distributed.
- Google staff worked north of downtown Ann Arbor. 50 plaques, appx. 200 fliers.
- Key Bank volunteers worked in the Georgetown neighborhood in Ann Arbor. 20 plaques, appx. 50 fliers.
- 5 individual volunteers in greater Ann Arbor – working in their own neighborhoods.

In June 2013 the program hosted a crowd-sourced stormdrain art event at a key community festival, the Ann Arbor Mayor’s Green Fair. Stormdrains located at the fair’s central intersection were decorated with chalk by a professional artist and the public with direction by an art educator. 300 informational flyers promoting the Adopt-A-Stormdrain program were distributed to attendees.

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HRWC staff and an actor portraying an H2O Hero promoted the connection between stormdrains and water quality.

Since its launch in April 2012 the Adopt-A-Stormdrain program web page has experienced 441 page views with 333 unique page views.

Activity 8 - Promote County-wide Complaint Tracking and Response System

The Washtenaw County Environmental Reporting Line (734-222-3800) is in operation during business hours (Monday-Friday, 8:30 to 5:00) and staffed by the Washtenaw County Environmental Health Division. Brochures promoting the Environmental Reporting Line are distributed at County Offices, at local events (see Activity 12 for a list of events), provided to local governments for lobby and/or special event distribution and are available from the Water Resources Commissioner’s Office upon request.

Activity 9 - Promote Soil Testing

The WCWRC promotes and encourages soil testing through the following programs and publications: Community Partners for Clean Streams, RiverSafe Homes, Homeowners Handbook and the Rain Garden Program. Soil testing is also promoted via the following websites:

Table 2: Number of page views of specific county websites with environmental information

Website Address	Page Views	Unique Page Views
Washtenaw County Riversafe (www.ewashtenaw.org/government/drain_commissioner/dc_webWaterQuality/dc_riversafe/)	621	441
Washtenaw County Healthy Home Portal – Lawn Care (www.ewashtenaw.org/living/environmental_health_and_services/healthy_home_portal/lawn_care)	504	328
WC – MSU Extension - Soil Test Recommendations (www.ewashtenaw.org/government/departments/extension/ex_extsoil.html)	947	711

HRWC

Beginning January 1, 2012, phosphorus fertilizer applications are restricted on residential and commercial lawns in Michigan, including athletic fields and golf courses statewide. This includes applications by both homeowners and commercial applicators.

The general rule in the Michigan Fertilizer Law is no phosphorus fertilizer may be applied on residential or commercial lawns, unless it meets an exemption. The sale of phosphorus fertilizers in the marketplace is not impacted. Phosphorus applications for agriculture, gardens, trees, and shrubs are exempted. In September 2011 HRWC participated in a phosphorus fertilizer workgroup coordinated by the Michigan Department of Agriculture & Rural Development. MDARD produced a homeowner brochure and additional phosphorus information (available at www.michigan.gov/mda-fertilizer and www.BePhosphorusSmart.msu.edu).

In 2012, the Michigan State University Extension (MSUE) “Don’t Guess, Soil Test” program transitioned to a web-based mail in program run by MSUE where consumers were directed to purchase (\$25) a soil test kit, mail-in their samples and get results by email which they then plug into a website tool for interpretation. The “Don’t Guess, Soil Test” program was formerly offered

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annually in the spring and was held at local retailers in the month of April in Washtenaw, Oakland and Livingston Counties.

HRWC promoted the “go phosphorus free” messaging to the public in April 2012 and 2013 through the Watershed Community Calendar (Activity #2), Information in Community Newsletters, on Websites (Activity #3), and Local Newspaper and Web Advertisements (Activity #4).

Activity 10 - Riparian Land Management Brochures

The Riparian Land Management brochure and the Waterfront Wisdom booklets are made available at the Water Resources Commissioner’s Office, as well as at various public outreach events and upon request to citizens, homeowner’s associations or businesses.

HRWC

HRWC has a Riparian Living brochure available for community use that was cooperatively produced in 2007 by the City of Ann Arbor, the City of Ypsilanti, the Village of Barton Hills and The Village of South Rockwood. It includes tips on composting, pet waste, toxics disposal, septic system maintenance, fertilizer, boat maintenance, vegetative setbacks, and general resources for Monroe and Washtenaw Counties. HRWC regularly distributes this brochure at public outreach events (see activity #12).

An updated brochure is scheduled to be produced and distributed in 2013 under the Public Education Plan for Middle Huron Stormwater Advisory Group Members. HRWC, with the help of the Washtenaw County Water Resources Commissioner’s Office, has identified a brochure for use going forward, *Waterfront Wisdom, Healthy Habits for Clean Water*, designed by Environmental Consulting & Technology and published by the Oakland County Drain Commissioner. This publication will be adapted for the Huron River watershed and an electronic version will be made publicly available in November 2013.

Activity 11 - Stream and River Crossing Road Signs

Through a partnership with the Washtenaw County Water Resources Commissioner’s Office, Washtenaw County Road Commission and local governments, 59 stream crossing signs were designed and produced for installation in highly traveled Phase II County road rights-of-way areas to promote watershed awareness to residents and visitors. There are seven (7) signs installed on the following Washtenaw County drains: Wagner, Rouse, Pittsfield #1, Koch Warner, Buck Creek, Upper Paint Creek, and Willow Run.

Activity 12 - Displays and Outreach at Local and Regional Fairs and Community Events

The WCWRC participated in many water quality public education/outreach events during the reporting period including:

- Chelsea Expo: March 2013
- City of Ann Arbor Earth Day: April 2012 & 2013
- City of Ann Arbor Mayor’s Green Fair: June 2012 & 2013
- Home, Garden & Lifestyle Show Washtenaw County: March 2013
- Huron River Day: July 2012
- Mission Zero Festival: June 8-10, 2012
- Rain Barrel Sale: May 18, 2013
- University of Michigan Earth Fest: September 2012

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- Washtenaw County Environmental Excellence Awards: October 2011 & 2012
- Waste Knot Awards Ceremony: April 2012 & 2013
- Ypsilanti Heritage Festival – Green Tent: August 2012

At each of these events we offered a variety of water quality information (brochures, RiverSafe Homes, rain garden, native plant information, etc.). When appropriate, children's based activities (water quality activity books or enviroscape demonstrations) were utilized to engage the younger age groups.

Within the WCWRC's Office, staff participated in 91 public education presentations and special events throughout the reporting period.

Water quality materials are distributed for use by local government events upon request. Among those that selected specific stormwater information to be supplied for local events during the reporting period were: Pittsfield Township (Open House 2012, Clean-up Days (2) 2012), York Township (Earth Day 2012) and Webster Township (Fall Festival & Spring Plant Sale 2012).

Water quality information is provided to Community Partners for events or general distribution upon request. For example, water quality information was distributed to Recycle Ann Arbor in 2011 and the Milan Correctional Facility in 2012.

The WCWRC's Office maintains a list of approximate quantities of materials distributed on file and it is available upon request.

HRWC

HRWC coordinated and staffed displays and table activities at the following community events during the reporting period:

- Ann Arbor Mayor's Green Fair (June 2012, 2013)
- Chelsea Expo (March 2013)
- Dexter Daze (August 2013)
- Earth Day, Schoolcraft College, Washtenaw Community College, Ann Arbor and Milford (April 2012, 2013)
- Flat Rock Riverfest (September 2011, 2012, 2013)
- Home Grown Festival, Ann Arbor (September 2011, 2012)
- Home, Garden & Lifestyle Show Washtenaw County (March 2012, 2013)
- Huron River Day (July 2012, 2013)
- Mission Zero Fest (June 2012)
- Pinckney Art in the Park (June 2012)
- University of Michigan Party for the Planet (September 2012, 2013)
- Ypsilanti Heritage Festival (August 2012, 2013)

At the three day Ypsilanti Heritage Festival, which draws 80-90,000 attendees each year, HRWC participates in a joint outreach effort, the "*Green Tent*" funded and organized by Eastern Michigan University, the City of Ypsilanti and Ypsilanti Township. Several local environmental organizations participate annually including the Washtenaw County Water Resources Commissioner's Office, the Washtenaw County Environmental Health Division and MDEQ. HRWC hosts a stream monitoring demonstration and an art activity for children and families. In 2012 and 2013, HRWC raffled a kayak

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which helped to draw in over 400 festival goers to the Green Tent displays which featured Non-Point Source pollution prevention and stewardship messaging.

At the 2013 Ann Arbor Earth Day Festival in April, HRWC hosted a unique tabling activity for children, helping them build “native plant terrariums” and teaching why native Michigan plants are good for protecting water quality. Over 300 terrariums were made during the 4 hour festival.

Also in 2013, the HRWC partnered with the Washtenaw County Water Resources Commissioner, the Washtenaw County Road Commission, the City of Ann Arbor, the Village of Barton Hills and Great Lakes Rain Barrel to promote and host a public rain barrel sale on May 18. Efforts resulted in the sale of 322 rain barrels to local residents at a discounted rate of roughly 20% off retail pricing (negotiated by WCWRC). Outreach included a rain barrel display and the distribution of 2,000 postcards by HRWC and the WCWRC at the Home Garden & Lifestyle Show, the Chelsea Expo and Earth Day Festivals at Schoolcraft College, Washtenaw Community College, Ann Arbor and Milford. The City of Ann Arbor promoted the festival through a display and postcard distribution at its customer service center, its water bill insert *Water Matters*, and in various community emails. Ann Arbor Public Schools published sale information in a district-wide email to staff and families. Print advertisements were run in Michigan Gardener April, the Ann Arbor Observer April and May, and the Spring 2013 Community Observer (for a total circulation of 170,000). As a result HRWC’s rain barrel sale web page experienced 3,956 page views (3,266 unique page views) February 1 through June 1 which included the months preceding and shortly following the sale.

HRWC and WCWRC also partnered with the Village of Dexter and Great Lakes Rain Barrel to promote and hold rain barrel sales at the Village’s Farmers Markets July 13, August 3 and 17, 2013. Announcements were posted to HRWC’s Facebook Page (approx. 1200 followers) and Chris Merucci, president of Great Lakes Rain Barrel was interviewed on the Lucy Ann Lance Show on WLBY 1290 AM, airing on its live weekly radio broadcast and included in the internet replay of the show on www.lucyannlance.com.

Activity 13 - Community Partners for Clean Streams

The Community Partners for Clean Streams Program is a voluntary, cooperative effort between the WCWRC’s Office and Washtenaw County businesses, institutional landowners and multi-family residential complexes. The goal of the program is to help identify practical, cost effective ways to protect Washtenaw County waterways through pollution prevention. CPCS is a cost-free initiative that provides information, technical advice and recognition to participants. There are currently over 120 partners involved in the program, a partner listing can be found online at www.ewashtenaw.org/cpcs.



Activity 14 - Pollution Prevention (P2) Inspections

Washtenaw County Pollution Prevention (P2) Inspections review chemical storage/handling practices, look for illicit connections, ensure compliance with relevant federal, state and local laws and provide a report and technical assistance where remediation is necessary. Washtenaw County Environmental Health offers P2 inspections at no cost to Phase II communities and agencies responsible for inspecting municipal facilities under Phase II requirements. Ten municipal facilities

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were inspected under this partnership. Also approximately 700 P2 inspections were conducted by the Washtenaw County Environmental Health Division during the reporting period. See www.ewashtenaw.org/government/departments/environmental_health/pollution_prevention.

Activity 15 – Washtenaw County Green Media

In collaboration with local partners (City of Ann Arbor, Eastern Michigan University), Washtenaw County uses the website www.ewashtenaw.org to bring environmental education to the public in a variety of forms. Information is distributed via newspaper articles, award-winning informational videos, monthly television shows, and weekly radio programs. The *Green Media* website was developed to serve as a single resource for the County's educational outreach efforts.

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/green_media.html.

“Issues of the Environment” Radio Show (WEMU – 89.1 FM)

The *Issues in the Environment* is a weekly radio program hosted by David Fair on WEMU. Every Wednesday morning the Washtenaw County Environmental Health Division introduces a special guest speaker. A variety of topics are covered, some examples of the water quality related topics include: *clean sweep program to dispose of citizens' pesticides, proper disposal of medications and other water quality issues, and changes to the Washtenaw County Sewage Regulation*. A complete listing of program topics can be found online. See:

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/issues_of_environment.

“The Green Room” Television Show (CTN – Channel 19)

The Green Room is collaboration between the City of Ann Arbor's Community Television Network (CTN) and the Washtenaw County Environmental Health Division. Airing of each new episode begins on the second Tuesday of the month on Channel 19 and continues throughout the month typically following this schedule: Mondays 11:30 AM, Tuesdays 5 PM, Thursdays 11 AM, Fridays 5:30 PM, Saturdays 10:30 AM and Sundays 7 PM. A variety of topics are covered each month, some examples during the reporting period include: *Butterfly Gardening, Ecological Effects of Deer, Non-Native Invasive Plants, and Water Quality: It's in Our Hands*. A complete listing of episodes and the topics covered can be found online. See:

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/greenroom/green_room_tv.

Additionally, a variety of environmental video projects have been produced by the Washtenaw County Environmental Health Division. Videos such as *Water Quality: It's in our Hands, Septic Systems and Water Quality, and Safe Disposal of Medications* are posted on the Washtenaw County website and can be viewed anytime:

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/green_media.html.

Activity 16 - Environmental Excellence Awards

The 14th & 15th Annual Environmental Excellence Awards were held in conjunction with the National Pollution Prevention Week. Winners and honorable mention (where applicable) are selected to receive an award in the following categories: Water Quality Protection, Waste Reduction & Recycling, and Pollution Prevention. The Overall Environmental Excellence winner must be someone who excels in all three categories and participates in the Washtenaw County Community

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Partners for Clean Streams, WasteKnot and Pollution Prevention programs. For award winners in all three categories plus the overall winner, see Table 3 below. Advertisement(s), press releases and website postings are used to recognize awards winners. See

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/environmental_excellence/envex.html.

Table 3: Environmental Excellence Winners for 2011 & 2012

	Overall Winner	Water Quality Protection	Waste Reduction & Recycling	Pollution Prevention
2011	Chrysler Group LLC - Chrysler Proving Grounds in Chelsea	Washtenaw County Parks and Recreation Commission	Leslie Science & Nature Center	ITC Holdings Corp
2011 Honorable Mention		Horiba Instruments, Inc.		
2012	Village of Dexter	Radrick Farms Golf Course - University of Michigan	Wylie Elementary School	The Trenton Corporation

Activity 17 - Fats, Oils, and Grease (FOG) and Litter Reduction

Washtenaw County developed Series 9 in the Community Partners for Clean Streams program which highlights proper disposal of fats, oils and grease (FOG). Food service recruitment packages are created to educate restaurants about FOG disposal and clean-up procedures. These packages include CPCS Series 9, a FOG brochure, and a FOG hauler listing. Customers are often directed to the electronic information rather than providing physical documents. Additionally, there have been 463 page views of the FOG Information on the County website

(www.ewashtenaw.org/government/departments/environmental_health/food_safety/eh_fatsoilsgr_ease.html) during the reporting period.

Through a partnership between the Ypsilanti Community Utility Authority (YCUA) and the Washtenaw County Water Resources Commissioner’s Office (through the CPCS program), FOG information is provided to food service facilities served by YCUA on an ongoing basis.

Activity 18 - RiverSafe Homes Program

The RiverSafe Homes Program offers Washtenaw County residents user-friendly water quality protection information (online) that is geared to homeowners. Participants take an online survey to assess how the pollution prevention activities they already do and pledge to do can protect and improve water quality around their homes. The topics covered in the survey include:

- Lawn Care
- Car Care
- Proper Pet Waste Disposal
- Household Hazardous Waste Disposal



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Upon satisfactory completion of the survey, participants receive a “RiverSafe Home” plaque that may be displayed at their home. The purpose of the plaque is to inform visitors about the water quality protection activities and commitment made by the homeowners who live there. A hard copy RiverSafe Home booklet and survey are also available for residents who do not have internet access.

During the reporting period, over 200 RiverSafe Home surveys were completed. Of that number, a majority represents participation by residents from the City of Ann Arbor who partnered with the WCWRC’s Office by way of the City of Ann Arbor Stormwater Rebate Program. Since the program kick-off in 2007 membership in the RiverSafe Home program has grown to approximately 2,300 members.

Activity 19 - Other Public Education Activities Related Specifically to E. coli and Phosphorus TMDLs Pet Waste Education

In 2012, Washtenaw County WRC initiated a pet waste education distribution partnership with the Washtenaw County Treasurer’s Office to provide targeted distribution of pet waste education tip cards to dog owners. Through this partnership with the Treasurer’s Office, pet waste tip cards are included in dog license registration renewal packages mailed to residents within the County’s jurisdiction. Since 2012, over 2,000 tip cards have been distributed through this program.

HRWC

In February-April 2012 HRWC, with support from the Washtenaw County Water Resources Commissioner organized and disseminated a public pet waste educational campaign with a goal to increase awareness about the linkage between picking up pet waste and clean water. To coincide with the 2102 Watershed Community Calendar, March 2012 was designated “H2O Heroes Scoop Poop” month. See www.hrwc.org/our-work/programs/middle-huron-sag/ for the produced Scoop Poop In March materials and HRWC’s supporting web page www.hrwc.org/take-action/water-pollution/scoop-poop/.

A “Pet Partners” target list of 91 veterinarians, clinics, pet supply and service retailers, Washtenaw Stormwater Advisory Group community partners and the Humane Society of Huron Valley were sent a pre-campaign letter with a Pet Waste Fact Sheet. The entire group was also provided with display materials including an 11” x 17” H2O Hero Scoop Poop Poster and 4” x 9” H2O Hero Scoop Poop Tip Cards (with an acrylic holder).

In addition HRWC drafted and posted pet waste educational blogs (4), Facebook status updates (6), placed an H2O Hero Scoop Poop advertisement in the March Ann Arbor Observer (going to City of Ann Arbor residents with a circulation of 60,000 and a readership of 120,000).

Two press releases promoting the benefits of picking up pet waste were issued to local media and one story was published in the Ann Arbor Journal (March 29, 2012). The Humane Society of Huron Valley included the tip card in the “goody bag” reaching 1000 pet owners participating in their May 19 annual fundraiser Walk, Wag & Run. Pet Supplies Plus telephoned to report that they would put pet waste baggies on sale and use some of HRWC Fact Sheet info in a March radio advertising campaign.

Activity 20 - Residential Rain Garden Program

Since 2005, the WCWRC’s Office has been assisting businesses and homeowners in creating and installing rain gardens on their property. More than 140 rain gardens have been designed and

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installed on residential and institutional property with County assistance. The project was initiated as a Clean Water Act 319 grant but has since been funded by both Washtenaw County and the City of Ann Arbor. An average of 10 rain gardens are constructed each year through the Rain Garden Assistance Program. Design and one-on-one assistance with construction is provided. Gardeners are responsible for all material costs and construction. In 2008, interpretive signage was developed and made available to those gardeners interested in them. In 2009, a 0.5 temporary employee was hired by MSU extension for program development including train-the-trainers workshops and additional design.

In 2011, the program was expanded to include a formal train-the-trainer class which focuses on developing a volunteer corps of residents who can design and build rain gardens. These volunteers can then spread practical knowledge and assist others in the community with rain gardens.

In cooperation with MSU Extension, the first annual Washtenaw County Master Rain Gardener class was offered the spring of 2011, and again offered in 2012 and 2013. During the reporting period, the class was offered in March 2012 and January/February 2013. In 2012, the class had 30 participants and 18 constructed rain gardens. In 2013, the class had 25 participants and 11 constructed rain gardens as of July 2013.

Table 4: Rain Gardens Installed

	WCWRC Annual Rain Gardens Installed	Master Rain Gardener Program – Gardens Designed (subset of annual)
2011	19	12
2012	30	18
2013	23	11 (6-months)

Activity 21 - Washtenaw County Home Toxics Reduction Program

The Washtenaw County Home Toxics Reduction Program has a permanent facility at 705 N. Zeeb Road that accepts household hazardous waste from the citizens of Washtenaw County. An example of the materials that are accepted include: oil-based paints, latex paints, aerosols, cleaners and polishers, pesticides, herbicides, fertilizers, paint thinner, solvents, varnishes, wood preservatives, mercury, fluorescent light bulbs, and home repair products. A complete listing of the acceptable and non-acceptable items can be found on our website at www.recycle.ewashtenaw.org/.

Collection facility hours of operation take place the first 3 Saturdays of the month from 9:00 am until noon beginning in April and ending in November. Collection during the winter months (December-March) is available by appointment. Appointments are also scheduled for those citizens unable to use the facility during regularly scheduled hours. The Home Toxics Reduction Program collected 380,134 pounds of household hazardous wastes in 2011 and 2012 combined (see Table 5 below).

Table 5: Household Hazardous Waste (HHW) Collected

	HHW Volume Collected (pounds)
2011	201,528
2012	178,606
TOTAL	380,134 pounds

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Waste Knot Program

The Waste Knot Program works to develop relationships within the Washtenaw County business community to increase waste reduction and recycling activities. The program provides community-wide recognition and organization-based technical assistance along with value-added education to organizations that exhibit leadership in waste reduction and recycling or to organizations that desire to become leaders in waste reduction and recycling. Currently there are 317 businesses participating in the program.



An annual awards ceremony is held to honor participating businesses and institutions that follow exemplary waste prevention and disposal practices. The awards ceremonies were held April 2012 and 2013.

For more information, please visit the Waste Knot Program website at www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/waste_knot.

County Clean-Up Day Events

Fall Regional “Clean-up Day” Events (10/8/11 and 10/27/12)

Eastern Michigan University hosted fall clean-up events held in cooperation with the Washtenaw County Environmental Health Division’s Solid Waste Division and Superior Township. Bulk collection details are included in Table 6 below. The 2012 Solid Waste Report includes information on this and other waste collection events and is available on the website at:

www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/eh_2012emucleanupdayreport.pdf.

Table 6: Bulk Collection Data from Special Household Hazardous Waste (HHW) Collection Events

Items Collected	October 8, 2011	October 27, 2012
Number of Cars	310	658
HHW (lbs.)	12,440	29,275
Electronic Waste (lbs.)	11,161	29,028
Car Donations	\$976	\$3,715

Activity 22 - Proper Disposal of Prescription Drugs and Personal Care Products/Pharmacy Drug Take-Back Program

The Medicine Take-Back Program consists of thirteen (13) participating pharmacies that serve as collection points for the general public to take unused, expired or unwanted medicines for safe disposal within Washtenaw County. Since 2008, over 7,200 pounds of medication has been collected and disposed of properly. Please visit our website at www.dontflushdrugs.com for locations and additional information.

Public Education Plan Evaluation

In 2011-2012 the Stormwater Advisory Group began implemented a broad public education survey to measure public awareness of stormwater pollution and possible solutions, environmental attitudes, behaviors, and constraints of residents of the Huron River watershed who have been generally exposed to nonpoint source pollution prevention and watershed education messaging

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through the materials and regular outreach channels of the Huron River Watershed Council and participating communities. Please go to www.hrwc.org/survey/ for the final report and all supporting documentation.

V. **ILLICIT DISCHARGE ELIMINATION PLAN (IDEP)**

IDEP section of our SWPPI was developed to prohibit and effectively eliminate illicit discharges (including the discharge of sanitary wastewater) to Washtenaw County storm systems. Following is a summary of progress made toward IDEP implementation.

Prohibit Illicit Discharges through Regulation

Rules of the Washtenaw County Water Resource Commissioner (Rules)

The *Rules of the Washtenaw County Water Resource Commissioner* outline procedures and design criteria for stream channel protection, stormwater quality management, flood control, detention pond design and other best management practices. The current version of the *Rules* is being revised and will be available in 2014.

Eliminate/Minimize Infiltration of Sanitary Sewer and Septic Systems via Time of Sale (TOS) Program Onsite Well and Septic Inspection at Point of Property Transfer

The Washtenaw County Board of Commissioners adopted the Regulation for Onsite Well and Sewage Disposal System Inspection at the Time of Property Transfer in June of 1999. This regulation requires:

- The inspection and evaluation of septic systems and/or wells before residential property changes ownership.
- Inspections to be performed by private sector inspectors who are certified by the County.
- Inspection reports to be filed with the Washtenaw County Environmental Health Division.
- The County to generate a written notice either authorizing the transfer of property or requiring corrections. Authorization must be issued before the deed can be transferred.

During the reporting period, 1,761 Point of Property Transfer (time of sale) inspections were performed on well and septic systems county-wide by the Washtenaw County Environmental Health Division. Of that number, 1,317 inspections were for septic systems. The WCEH sent denial notices to 216 homes (approximately 16%) which were found to be in an unacceptable condition. In order to comply with the time of sale requirements, 18 corrective actions were taken at homes allowing WCEH to issue a time of sale authorization letter.

Affidavit of Water Pollution Prevention and Environmental Protection

Prior to obtaining a drain permit, applicant signatures are required on the *Affidavit of Water Pollution Prevention and Environmental Protection*. The signature acts as the commitment from the applicant attesting that there will be no discharge of potentially polluting substances. During the reporting period, 83 affidavits were signed for issued permits.

Dye Testing

The WRC's Office filed Notice of Intent for Approval Authorizing Tracer Dyes in Surface Waters in 2011, 2012 and 2013. Approval was subsequently granted to WCWRC for dye testing during 2011, 2012 and 2013. A copy of the NOI forms are on file with the WRC's Office and will be made available upon request.

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Program to Find & Eliminate Illicit Connections and Discharges during Dry Weather Screening Storm Sewer System Map

An updated version of our storm sewer system map is online and can be found at gisapp.ewashtenaw.org/mapwashtenaw/. Through our Geographical Information Systems (GIS) & Information Technology Department, Washtenaw County provides MapWashtenaw, which is an interactive, online mapping tool that allows access to the latest parcel maps and property data. A variety of county-wide information is available including parcels, aerial photos, topography, schools and natural features.

Internal IDEP Communication

In partnership with the County's Environment Health Division, the Water Resources Commissioner created an IDEP Liaison position to serve as a field IDEP specialist and liaison. To support the IDEP program in both short and long range planning, the County's Phase II Stormwater Permit Illicit Discharge Elimination Programs are coordinated by the Water Resources Commissioner's Office.

Dry Weather Screening Program & Data Collection

During the September 2011 – June 2013 reporting periods a portion of 205 county drains fell within the 2000 urbanized area. There are approximately 480 outfalls within the county drain system. The Water Resources Commissioner's Field Inspection Division conducted 54 drain and outfall inspections at a variety of sites. This inspection level exceeds the Water Resources Commissioner's commitment to inspect 20% of County Drains each reporting year. All outfall inspections include a record of outfall characteristics (dimension, material, etc.), physical indicators (smell, color, structural damage, etc) and sampling where dry weather flow is present (*E. coli*, surfactants and temperature). Outfalls with no flow or minimal flow are not sampled. Of those sites inspected, dry weather sampling was conducted on 13 drains.

A total of two potential illegal discharges were located during the reporting period. Follow-up activities were conducted for each including additional dry weather sampling at sites and formal communication with upstream and downstream local governments and/or agencies as appropriate. Documentation of IDEP findings and incidents investigated, along with follow up actions taken (or underway) and laboratory analysis reports are on file with the WRC's Office and will be made available upon request. The two potential sites were determined not to be illicit discharges based on follow-up investigations.

Washtenaw County Pollution Prevention (P2) Program

Washtenaw County Pollution Prevention (P2) Inspections review chemical storage/handling practices, look for illicit connections, ensure compliance with relevant federal, state and local laws and provide a report and technical assistance where remediation is necessary.

Through the pollution prevention program we have helped identify and get corrected, two various illicit discharges and/or connections that were discovered during site inspections. For further description and data collected, see PEP – Activity 14 in Section IV.

Environmental Complaint Response

IDEP Tracking Database

A database/spreadsheet is kept on file which documents all complaints received and the associated follow-up. As appropriate, the database also tracks field investigation reports, investigation outcome, outfall testing results and enforcement taken. There are no outstanding complaints or

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issues, in most cases the County works as a liaison with other municipalities to help and assist with the resolution of illicit discharges.

Environmental Reporting Line

The Washtenaw County Environmental Reporting Line (734-222-3800) is in operation during business hours (Monday-Friday, 8:30 to 5:00) and staffed by the Washtenaw County Environmental Health Division. Brochures promoting the Environmental Reporting Line are distributed at County Offices, provided to local governments for lobby and/or special event distribution and are available from the Water Resources Commissioner's Office upon request.

Water Quality Information Response

The WCWRC's Office received 288 stormwater service requests during the report period with the field staff responding to approximately 303 inquires. The nature of the calls vary and oftentimes the callers are provided stormwater information brochures, have one on one conversation with staff, and/or are given resources for other water quality information. The WCWRC's Office logs calls and responses for stormwater information and assistance, that information is available upon request.

Staff Training

All relevant established Washtenaw County employees in the Water Resources Commissioner's Office have completed IDEP training through the Wayne County Department of Environment. One staff member hired in December 2012 will receive IDEP training prior to his anniversary date.

Program for Determining Overall Effectiveness of IDEP Program

See above for program effectiveness. Records, maps and IDEP tracking database/files are on record with the Water Resources Commissioner's Office and can be made available upon request.

VI. POST-CONSTRUCTION STORMWATER RUNOFF CONTROL FOR NEW DEVELOPMENTS & REDEVELOPMENT PROJECTS

Washtenaw County has a process to implement and enforce a program to address post-construction stormwater runoff from all new and redevelopment projects that disturb 1 acre or more. Progress to implement this program is included below.

Rules of the Washtenaw County Water Resource Commissioner (Rules)

The *Rules of the Washtenaw County Water Resource Commissioner* outline procedures and design criteria for stream channel protection, stormwater quality management, flood control, detention pond design and other best management practices. The current version of the *Rules* is being revised and will be available in 2014. At that time we anticipate a workshop being held to present the revised *Rules* to interested individuals. The *Rules* can be found on the WCWRC's Office website and can be found here:

www.ewashtenaw.org/government/drain_commissioner/dc_webPermits_DesignStandards/dc_summary.html.

For sites within Washtenaw County's jurisdiction -- site plans are reviewed to ensure that they are in compliance with the Rules. Plans cannot be approved without meeting the standards. During the September 1, 2011 through June 30, 2013 time period, 334 plan reviews were completed and 86 permits were issued.

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Post Construction Controls at County-owned Facilities

All property owned by Washtenaw County with new development of substantial redevelopment will adhere to the *WCWRC Rules*. Copies of the site plan reviews and approvals are on file. Locations with water quality devices (e.g. swirl concentrators or other pretreatment measures) are noted and will be maintained as needed, based on inspection reports and manufacturer’s recommendations.

VII. CONSTRUCTION STORMWATER RUNOFF CONTROL

To control wet weather discharges from construction activities, Washtenaw County has developed procedures to minimize soil erosion and control runoff from construction sites. Progress toward implementation of construction stormwater runoff controls is provided below.

Soil Erosion and Sedimentation Control

Washtenaw County is mandated by the State of Michigan’s Department of Environmental Quality’s, Part 91 Soil Erosion & Sedimentation Control of the Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994, for administration and enforcement. The Washtenaw County Board of Commissioner has adopted the aforementioned Act and Rules promulgated under the Act within the County’s SESC Ordinance and administers it to twelve jurisdictions. The WCWRC’s Authorized Public Agency (APA) program was audited in October 2010 and subsequently approved.

Washtenaw County’s SESC Program’s purpose is to manage soil erosion and subsequent sedimentation in order to promote the safety, public health and general welfare of the community through effectively sustaining the goal of clean water in Washtenaw County and the State of Michigan.

Washtenaw County Water Resources Commissioner’s Office regulates earth moving activities for all of Washtenaw County **except** City of Ann Arbor, Ann Arbor Township, City of Chelsea, Bridgewater Township, Dexter Township, Freedom Township, Lima Township, Lyndon Township, Manchester Township, Pittsfield Township, Sharon Township, Sylvan Township, Ypsilanti Township, and the Village of Manchester.

Table 7: Washtenaw County Soil Erosion & Sedimentation Control Program Data

	2011 (Oct-Dec)	2012	2013 (Jan-June)	TOTALS
Applications Received	131	324	159	614
Plan Reviews	296	501	224	1,021
SESC Permits Issued	128	301	133	562
Maintenance Inspections	239	501	477	1,217
Final Inspections	61	197	100	358
Complaints/Investigations/ Stop Work Orders	10	31	31	72

On April 20, 2011, the Washtenaw County Board of Commissioner’s adopted the revised Washtenaw County Soil Erosion and Sedimentation Control Ordinance. A copy of the ordinance can be found online: www.ewashtenaw.org/government/drain_commissioner/dc_websoilerosion/se-sc-ordinance-2011.pdf

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The most recent soil erosion and sedimentation control guide and permit fee schedule and soil erosion permit application can be found online:

www.ewashtenaw.org/government/drain_commissioner/dc_websoilerosion

See Table 7 for application and permit information throughout the reporting period. Copies of site plan reviews, approval notes, inspection records and enforcement are on file with the WCWRC's Office.

VIII. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

A set of training and maintenance activities is required for MS4 municipal operations, under the permit, to control pollution from municipal operations. Washtenaw County has fulfilled these requirements by implementing the following activities:

Employee/Contractor Training

Training is an ongoing effort throughout the County. General training is provided to all applicable employees regarding the County stormwater program, good housekeeping procedures and pollution prevention. Numerous education materials are available online via the eWashtenaw and eCentral websites to train employees in best management practices.

Contractors are required to comply with the WCWRC's Office Rules which outlines stormwater BMP requirements. Contracts are signed by the contractor and kept on file. In 2012, the WCWRC developed the Contractor & Vendor Training: Stormwater Protection newsletter which outlines best practices for stormwater protection. The newsletter is available online at www.ewashtenaw.org/government/drain_commissioner/dc_webWaterQuality/dc_cpcs/cpcs-handbook/contractor-ed2-draft-cascade.pdf and is also referenced by WC Facilities in their recent vendor contracts – requiring vendors to train their employees on stormwater BMPs.

Certain job-specific certifications are held by necessary employees, those certifications would include SESC, Industrial Stormwater and/or Pesticide Applicator. There are currently 20 staff members within the Parks and Recreation Commission certified as pesticide applicators. See Table 8 below for a listing of Washtenaw County employees with either construction site stormwater and/or industrial stormwater certification.

Table 8: Currently Certified Construction Site and Industrial Stormwater Operators

LAST NAME	FIRST NAME	SW CERT .	SW EXPIR.	CERT. TYPE
Bonfiglio	Meghan E.	10512	2015	INDUSTRIAL SW
Castle	William A.	10884	2015	CONSTRUCTION SW
Clark	James M.	14956	2015	CONSTRUCTION SW
Dancer	Robert D.	14945	2015	CONSTRUCTION SW
Decker	Marc A.	09251	2015	CONSTRUCTION SW
Edick	Steve L.	14950	2015	CONSTRUCTION SW
Farrell	Richard E.	11340	2016	INDUSTRIAL SW
Fry	Michael S.	16563	2018	CONSTRUCTION SW

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Fults	William R.	16019	2017	CONSTRUCTION SW
Griffin	Robert E.	11563	2016	CONSTRUCTION SW
Harms	Jeffrey	09247	2015	CONSTRUCTION SW
Harms	Jeffrey J.	11345	2016	INDUSTRIAL SW
Lee	Katie A.	03760	2017	CONSTRUCTION SW
Miller	Scott A.	14515	2016	CONSTRUCTION SW
Rice	Heather N.	08491	2018	CONSTRUCTION SW
Rice	Heather N.	04427	2014	INDUSTRIAL SW
Sheehan	Harry M.	03963	2017	CONSTRUCTION SW
Streeter	David L.	14955	2015	CONSTRUCTION SW
Walczesky	Mallory K.	11567	2016	CONSTRUCTION SW
Winebrenner	Thomas S.	11329	2016	INDUSTRIAL SW
Wojcik	Dennis M.	14511	2014	CONSTRUCTION SW

IDEP Training

All relevant, established Washtenaw County employees in the Water Resources Commissioner’s Office have completed IDEP training through the Wayne County Department of Environment. One staff member hired in December 2012 will receive IDEP training prior to his 2013 anniversary date.

Water Resources Commissioner’s Field Inspection Division Apprenticeship Program

The purpose of the Field Inspection Division Apprenticeship Program is to establish and maintain high work standards through the development of apprentices who have a complete knowledge of the technical and theoretical aspects of their trades. Successful completion of various training programs and educational course work is one component of this apprenticeship program. The other is on-the-job training in all areas of their trade. All Field Inspection personnel have completed the required curriculum with the exception of one staff member who is currently fulfilling the program curriculum requirements.

Structural Stormwater Control Effectiveness

Proper Handling & Disposal of Operation and Maintenance Waste

A vector truck dewatering/disposal program has been established. The WCWRC’s Office Field Inspection Division coordinates disposal and dewatering of vector waste at the City of Ann Arbor’s W.R. Wheeler Service Center (located at 4251 Stone School Rd). The usage of the vector equipment is tracked using an hourly format. Vector debris is decanted at the Wheeler Center.

The WCWRC’s Office vector truck equipment is capable of holding 15 cubic yards. We estimate that the majority of each full load is primarily comprised of water, approximately 3-5 cubic yards is solid waste. During the reporting period, approximately 190 cubic yards of solid waste was removed from catch basins through our vector program.

In addition, new structural stormwater controls meet the WCWRC’s “Rules” and are added to the GIS mapping system periodically, after project completion.

Parking Lot Maintenance

Parking lot sweeping is contracted on an as needed basis. Rolling Hills County Park is typically swept annually prior to spring/summer start up. Meri Lou Murray Recreation Center, County Farm Park and Parks & Recreation Field Operations Building lots are swept when the lots are resealed.

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Salt and ice melt are purchased pre-bagged and applied sparingly. The County purchases approximately 30,000 pounds of salt and ice melt per year. Again, that material is pre-bagged and stored indoors.

Washtenaw County does not own any bridges or roads.

Management of County-owned Vegetated Properties

All relevant staff and contractors are required to be trained and certified applicators if using pesticides, herbicides and/or fertilizers as a function of their job responsibilities. Also see employee/contractor training in Section VIII above.

Washtenaw County does not currently fertilize at any parks or County-owned property. The only exception being Pierce Lake Golf Course which applies fertilizer only after soil testing and based on the amounts recommended per the soil analysis.

Facility Improvements

Solar Energy Systems Installed

Through \$134,000 funding provided by an Energy Efficiency Conservation Block Grant, numerous solar energy systems will be installed on several Washtenaw County facilities. The County Administration Building located at 200 N. Main will house a new rooftop solar photovoltaic system which will provide electricity to the site. The largest users of hot water in the county turned out to be the County Jail and the Juvenile Detention Facility. Both are 24-hour facilities that include housing and showers and collectively heat 750 gallons of water per day. The County decided to install rooftop solar hot water heaters on both detention facilities as well as on their administrative offices downtown, with each system appropriately sized to meet the water heating demands of each facility. Annual savings from the installation of solar hot water systems on four county facilities is \$32,000. In general, solar hot water heating can save 50% to 80% on heating costs, depending on the application and frequency of use. See <http://regionalenergyoffice.org/washtenaw-county-installs-solar-water-heating-video/> for additional information.

Variable Frequency Drive Pump Control Systems

Washtenaw County is also saving tens of thousands of dollars on utility costs annually by installing variable frequency drive pumps on the pools at Rolling Hills and Meri Lou Murray recreation facilities. See http://www.youtube.com/watch?v=d_p37FBml-w&feature=youtu.be for additional information.

IX. ADDITIONAL DRAIN & WATERSHED MANAGEMENT PROJECTS

This section speaks to locations used to identify properties to serve as overflow and diversion points during high water periods, or other new or on-going drain and stream projects and initiatives active during the reporting period.

Allen Creek Initiative: Restoration of the construction area of Pioneer High was completed for use during football season. Further stabilization and restoration will be completed in the spring. Signage was installed. Stormwater detention and treatment components of the project were completed previously. A contract for monitoring and evaluation of this BMP has been awarded.

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Restoration of West Park was completed and the park opened. Additional native plantings will occur in the spring. Stormwater detention and treatment components of the project were completed previously. Additional engineering and repair work will be required in the spring.

Construction of first flush stormwater detention and treatment was completed along Stadium Boulevard from Suffolk to Hutchins.

Construction of the first porous asphalt roadway in the State was completed along 800' of Sylvan Avenue. The success has carried over to reconstruction of Willard Ave and Madison Avenue where porous technology is being considered in design.

The Farmer's Market project was deferred by the City of Ann Arbor.

CHAPTERS 3, 4, 5, 6 AND 8 DRAIN PROJECTS

Arbor Creek: In April of 2008, freeholders of land submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the Arbor Creek Drain. A Board of determination found the project necessary at a public hearing held in July. A contract with an engineering firm was signed in 2009 and preliminary engineering work was completed. Final design was completed by a WCWRC staff engineer. Bids were accepted for project construction and the low bidder was J. Sebastian Trucking and Excavating. Construction work was completed and the project closed by year end 2011.

Bazley Foster: In April, 2012, Ypsilanti Township submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the Bazley Foster County Drain. A Board of Determination found the project to be necessary in July.

Copper Meadows: Dexter Township officials petitioned the Water Resources Commissioner to layout and designate the Copper Meadows Drainage District in October of 2008. The engineering firm of Orchard, Hiltz & McCliment was awarded the engineering contract in early 2009. The Drainage District was mapped out and the Chapter 4 petition to locate, establish and construct the drain was submitted by Dexter Township. A Board of Determination determined the project to be necessary in December, 2010. Orchard, Hiltz & McCliment is currently working on a drainage design for the project.

Country Lane Sub: In September of 2008, a petition to layout and designate the Country Lane Subdivision Drain was submitted by property owners within the proposed drainage district. Discussions with property owners on the necessity for the district began in late 2008. Many petition signatures were not in the drainage area of concern and attempts to contact and discuss this issue have not been successful. After further discussions it was determined not to proceed with the project. The petition will remain open and on file in the Office of the Water Resources Commissioner for a period of five years.

Geddes Ridge: In May of 2012, Freeholders of Land submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the Geddes Ridge County Drain. A Board of Determination found the project to be necessary in August, 2012. Spicer Group was awarded the engineering contract in October of 2012.

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Hawthorne Ridge: In December, 2011, Freeholders of Land submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the Hawthorne Ridge County Drain. A Board of Determination found the project to be necessary in March, 2012. Fishbeck, Thompson, Carr & Huber was awarded the engineering contract in June of 2012.

Lake Forest Highlands: Pittsfield Township petitioned the Water Resources Commissioner under Chapter 3 in 2000. Ayres, Lewis, Norris and May was selected to perform Chapter 3 engineering services in the fall of 2000. The Drainage District was established and the Chapter 4 petition to locate, establish and construct the drain was submitted by in May 2007. A Board of Determination found the drain necessary in June and Stantec was awarded the engineering contract in October. Survey and preliminary design began in late 2007, and was completed in the summer of 2008. A contract for the final design was awarded to Stantec in December 2008. Engineering and design continued through 2009. The construction contract was awarded to Bob Myers Excavating, Inc. in July 2010. Construction began in early fall of 2011 and was substantially complete by the end of 2012.

Luella Burton Park Drain: In August, 2012, a petition to layout and designate the Luella Burton Park Drain was submitted by property owners within the proposed drainage district. Spicer Group was awarded the engineering contract in November of 2012.

McMann Tile: In February of 2012, Freeholders of Land submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the McMann Tile County Drain. A Board of Determination found the project to be necessary in April, 2012.

North East Branch of Maurer: Freeholders of land in Northfield Township petitioned the Water Resources Commissioner under Chapter 3 of the Drain code in April 2007. The Drainage District was established and discussions began in 2008 with the Washtenaw County Road Commission and the petitioners on the necessity to file a Chapter 4. In 2009 the Washtenaw County Road Commission committed to replacing the road culvert to resolve the issue prompting the Chapter 3 petition, however this work was never completed. A Chapter 4 petition to locate, establish and construct the drain was submitted by Northfield Township. A Board of Determination determined the project to be necessary in December 2011. Orchard, Hiltz & McCliment was awarded the engineering contract in February 2012. The construction contract was awarded to J. Sebastian Trucking & Excavating in November 2012 and work was substantially completed in December 2012.

Northfield Earhart Road: In September of 2011, a petition to layout and designate the Northfield Earhart Road Drain was submitted by property owners within the proposed drainage district. Spicer Group was hired in December to survey the lands and determine the practicality of the proposed district. The Chapter 4 petition to establish the drain was received in September of 2012. A Board of Determination determined the drain necessary in December, 2012.

Pleasant Lake Extension Drain: In July of 2010 Freeholders of Land in the District submitted a petition under Chapter 8 of the Drain Code for repair of the Pleasant Lake Extension Drain. At a Board of Determination hearing in October 2010, improvements were found to be not necessary. The petition was thereafter dismissed in accordance with P.A. 40 of 1956, as amended. A new petition cannot be considered for a one year period.

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Saginaw Hills Drain: In December, 2010 the Office of the Water Resources Commissioner received a petition to clean out, relocate, widen, deepen, straighten, tile, extend and/or relocate along a highway the Saginaw Hills Drain by freeholders of land in the drainage district. A Board of Determination meeting was held in March 2011 at which it was determined that a project was necessary. Fishbeck, Thompson, Carr & Huber was awarded the engineering contract in 2011 and the design work continued into 2012.

Sugar Creek Extension Drain: In December of 2009 the Washtenaw County Road Commission petitioned the Water Resources Commissioner under Chapter 8 of the Drain Code for repairs and maintenance to the Sugar Creek Extension Drain. A Board of Determination hearing on necessity was held in March 2010 at which it was determined that a project was necessary. The Washtenaw County Road Commission was contracted to perform an engineering study of the district. The engineering design was completed at the end of 2011. The construction contract was awarded to Mead Brothers Excavating in April of 2012 and work was substantially completed in November 2012.

Territorial Road Drain: In June of 2009, York Township submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the Territorial Road County Drain. A Board of Determination found the project to be necessary in September 2009. Fishbeck, Thompson, Carr & Huber was awarded the engineering contract in late 2009. The Board was reconvened in December 2010 and found it necessary to adjust the district boundaries in the district to better represent the lands currently benefitting from the Territorial Road Drain. Engineering took place in 2010 and construction was substantially completed in spring 2012.

Textile Drain: A petition to layout and designate the Textile Drain Drainage District was submitted by Pittsfield Township in May of 2005. Spicer Group was awarded the engineering contract in September 2005. A Chapter 4 petition to establish the Textile Drain was received from Pittsfield Township in December 2006. The project was determined necessary by a Board of Determination in February 2007. Several different variations to the project were reviewed and considered during 2008. During discussions with the newly elected officials of Pittsfield Township it was decided to abandon the project. The petition will remain open and on file in the Office of the Water Resources Commissioner for a period of five years.

West Branch of Augusta Central: In October 2012, property owners submitted a petition under Chapter 8 of the Drain Code for repairs and maintenance to the McMann Tile County Drain. A Board of Determination found the project to be necessary in December.

Wing Drain: In April 2008, the Office of the Water Resources Commissioner received a petition to clean out, relocate, widen, deepen, straighten, tile, extend and/or relocate along a highway the Wing Drain by freeholders of land in the drainage district. At a public hearing held in June a Board of Determination found the project necessary. The engineering firm of Fitzgerald, Henne & Associates was awarded the contract for engineering services in September 2008. At a public hearing in July 2009 a reconvened Board of Determination approved modifications to the assessment district boundary. D&M Contracting was awarded the construction contract in February 2010. Construction began in early late spring 2010 and was complete in 2011.

CHAPTER 20 AND 21 DRAIN PROJECTS

Allen Creek – Farmer’s Market: In November of 2008 the City of Ann Arbor petitioned the Statutory Drainage Board to Construct Stormwater Controls in the Allen Creek Drainage District at the Ann

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Arbor Farmers Market. The project was approved by the Board in December. The City of Ann Arbor determined this project unnecessary in spring 2009. The project will remain open for a period of five years.

Allen Creek – Madison Ave.: In January of 2012 the City of Ann Arbor petitioned the Statutory Drainage Board to construct stormwater control measures on Madison Avenue. The project was approved by the Board in January, but the City then asked that the project be put on hold indefinitely.

Allen Creek – Pioneer High School: In November of 2008 the City of Ann Arbor petitioned the Statutory Drainage Board to construct a stormwater detention system in the Allen Creek Drainage District on the Pioneer High School grounds. The project was approved by the Board in December. Construction began in spring 2009 and was completed in 2011. Monitoring of the site began in 2010 and will continue for several years.

Allen Creek – Stadium Blvd. Phase II: In October on 2009 the City of Ann Arbor petitioned the Statutory Drainage Board for a project along Stadium Boulevard between Suffolk and Hutchins to construct stormwater controls. The project was approved by the Board in November. Construction began in March 2010 and was completed in 2011.

Allen Creek – West Park: In October of 2009 the City of Ann Arbor petitioned the Statutory Drainage Board for stormwater improvements to West Park, located within the Allen Creek Drain Drainage District. The project was approved by the Board in November. Construction began in the spring of 2010 and was completed in the summer of 2010. In November of 2010 the Statutory Drainage Board engaged the engineering firm of Orchard, Hiltz and McCliment to perform additional modeling work to resolve unanticipated stormwater problems and construction failures. In April of 2012 the WCWRC, City of Ann Arbor, Engineer, Manufacturer and Contractor executed a settlement agreement to address the construction failures.

Allen Creek – West Park Fairgrounds: In October of 2010 the City of Ann Arbor petitioned the Statutory Drainage Board for a project in the West Park Fairgrounds area of the Allen Creek Drain Drainage District. The Board approved the project in November of 2010. The firm of Wade Trim was awarded the contract for engineering and the design was anticipated to be completed in spring 2012. Construction is expected to begin in the spring of 2013.

Allen Creek Willard St.: In January of 2012 the City of Ann Arbor petitioned the Statutory Drainage Board to install porous pavement on Willard St. The Board approved the project in January 2012 and construction was completed in the summer of 2012.

Burns Park Porous Alley: In December of 2010 the City of Ann Arbor petitioned the Statutory Drainage Board for a project install porous pavement in an alley within Burns Park, located within the Malletts Creek Drain Drainage District in the City of Ann Arbor. The Board tentatively determined the petitions to be sufficient in December 2010. Construction was completed in 2011.

Cistern Installation, Downspout Disconnection and Tree Planting: In December of 2010 the City of Ann Arbor petitioned the Statutory Drainage Board for a project to install cisterns and plant trees at various locations in the City of Ann Arbor, as well as disconnecting downspouts at several buildings in the Allen Creek, Malletts Creek, Swift Run and Traver Creek Drain Drainage Districts. The Board

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tentatively determined the petitions to be sufficient in December, 2010. The project began in the spring of 2011 and continued into 2012.

Huron River Green Infrastructure District: In January of 2012 the City of Ann Arbor petitioned the Statutory Drainage Board to locate, establish and construct the Huron River Green Infrastructure Drain. The Board approved the establishment on the District in January and trees and rain gardens were planted in 2012 to improve infiltration in the City.

Malletts/Allen Creek – E. Stadium Bridges: In July of 2011 the City of Ann Arbor petitioned the Statutory Drainage Board for a project to replace the bridge on E. Stadium Boulevard in the City of Ann Arbor, including several stormwater control components. The Board found the project to be necessary and construction was completed in 2012.

Stream Bank Stabilization: In December of 2010 the City of Ann Arbor petitioned the Statutory Drainage Board for a project to stabilize the stream banks at specific points along the County Farm, Malletts Creek and Traver Creek Drains in the City of Ann Arbor. The Board tentatively determined the petitions to be sufficient in December. The Traver Creek Drain bank stabilization was designed by Fishbeck, Thompson, Carr & Huber and construction was substantially completed in fall 2011.

Traver Creek Leslie Park Golf Course Drain Project: In January of 2012 the City of Ann Arbor petitioned the Statutory Drainage Board to perform streambank stabilization on Traver Creek on at the Leslie Golf Course. The Board approved the project in January and construction began in the fall of 2012 and will continue into 2013.

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