For clarification purposes, the following acronyms/definitions are used throughout this report:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEC</td>
<td>UMA2 Architecture, Engineering and Construction</td>
</tr>
<tr>
<td>ARC</td>
<td>Alliance of Rouge Communities</td>
</tr>
<tr>
<td>BMPs</td>
<td>Best Management Practices</td>
</tr>
<tr>
<td>CAER</td>
<td>Center for Applied Environmental Research associated with UMF</td>
</tr>
<tr>
<td>CCRB</td>
<td>Central Campus Recreation Building located on the UMA2 campus</td>
</tr>
<tr>
<td>City</td>
<td>The City of Ann Arbor, Dearborn or Flint, as appropriate</td>
</tr>
<tr>
<td>EIC</td>
<td>The Environmental Interpretive Center on UMD campus</td>
</tr>
<tr>
<td>EHS</td>
<td>Environment, Health and Safety Department</td>
</tr>
<tr>
<td>FCAC</td>
<td>Fleming Creek Advisory Council</td>
</tr>
<tr>
<td>FOTR</td>
<td>Friends of the Rouge River</td>
</tr>
<tr>
<td>FRWC</td>
<td>Flint River Watershed Coalition</td>
</tr>
<tr>
<td>GIS</td>
<td>Geographical Information System</td>
</tr>
<tr>
<td>G&amp;WM</td>
<td>Plant Operations Grounds and Waste Management Department</td>
</tr>
<tr>
<td>HRWC</td>
<td>The Huron River Watershed Council</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating, Ventilation, and Air Conditioning</td>
</tr>
<tr>
<td>IDEP</td>
<td>Illicit Discharge Elimination Program</td>
</tr>
<tr>
<td>Illicit Connection</td>
<td>A physical connection to the drainage system that 1) primarily conveys illicit discharges into the drainage system or 2) is not authorized or permitted by the local authority (where a local authority requires such authorization or permit).</td>
</tr>
<tr>
<td>Illicit Discharge</td>
<td>Any discharge or seepage that is not composed entirely of stormwater into the drainage system, except for discharges specified in Parts I.A.1.b. and c. of the permit. Illicit discharges include dumping of motor vehicle fluids, hazardous wastes, grass clippings, leaf litter, domestic animal wastes, litter or unauthorized discharges of sewage, industrial waste, food services wastes, or any other non-stormwater waste into the drainage system.</td>
</tr>
<tr>
<td>MCAT</td>
<td>Millers Creek Action Team</td>
</tr>
<tr>
<td>MCCC</td>
<td>Mallets Creek Coordinating Committee</td>
</tr>
<tr>
<td>MGP</td>
<td>Manufactured Gas Plant</td>
</tr>
<tr>
<td>MDEQ</td>
<td>Michigan Department of Environmental Quality</td>
</tr>
<tr>
<td>MHI</td>
<td>Middle Huron Initiative</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NREPA</td>
<td>State of Michigan Natural Resources Environmental Protection Act, Act 451</td>
</tr>
<tr>
<td>OCS</td>
<td>Office of Campus Sustainability, associated with UMA2</td>
</tr>
<tr>
<td>OSEH</td>
<td>U-M Department of Occupational Safety and Environmental Health</td>
</tr>
<tr>
<td>Outfall</td>
<td>A discharge point from an MS4 directly to surface waters of the state</td>
</tr>
<tr>
<td>P2</td>
<td>Pollution Prevention</td>
</tr>
<tr>
<td>PEP</td>
<td>Public Education Program</td>
</tr>
<tr>
<td>Permit</td>
<td>The NPDES Stormwater Permit Number MI0053902 issued by MDEQ to the U-M, effective October 1, 2001</td>
</tr>
<tr>
<td>PIPP</td>
<td>Pollution Incident Prevention Plan</td>
</tr>
</tbody>
</table>
Plant Operations This division includes G&WM, Utilities, Parking Services, Maintenance Services and other activities associated with maintenance of University facilities

PPE Personal Protective Equipment
PSA Public Service Announcement
RCRA Resources Conservation and Recovery Act
SEMCOG Southeast Council of Governments
SESC Soil Erosion and Sedimentation Control
SPCC Spill Prevention and Countermeasure Control
SWMPP Stormwater Management Program Plan prepared for the Permit and approved by MDEQ
SWPPP Stormwater Pollution Prevention Plan
TMDL Total Maximum Daily Load
TSS Total Suspended Solids
U-M The University of Michigan, Ann Arbor, Dearborn & Flint
UMA2 The University of Michigan Ann Arbor Campus
UMD The University of Michigan Dearborn Campus
UMF The University of Michigan Flint Campus
UMPD U-M Police Department
University The University of Michigan, Ann Arbor, Dearborn & Flint
U-M SNRE University of Michigan School of Natural Resources and Environment
US EPA The United States Environmental Protection Agency
In accordance with Part I, Section C.1.c of National Pollutant Discharge Elimination System (NPDES) Permit MI0053902, the University of Michigan (University; U-M) is required to submit a mid-year report describing the status of compliance with permit conditions associated with the stormwater management program. This program is a requirement of the NPDES Permit issued by the Michigan Department of Environmental Quality (MDEQ) Surface Water Quality Division on October 1, 2001. This report covers the period July 1, 2014 through December 31, 2014 and follows the format identified in the permit.

1. Describe the status of compliance with the permit conditions

The University of Michigan is in compliance with the Stormwater Management Program Plan (SWMPP) for the Ann Arbor (UMA2), Dearborn (UMD), and Flint (UMF) campuses, as revised in May 2010 and approved by MDEQ on June 2, 2010. The University is also continuing to implement the approved post-construction stormwater management requirements outlined in the Stormwater Management – Post-Construction Requirements Guideline (EP3-001). U-M submitted a Phase II NPDES permit renewal application for discharge of stormwater to surface waters from a municipal separate storm sewer system on May 29, 2013. For the purposes of this report please note that the Occupational Safety and Environmental Health (OSEH) Department is associated with UMA2 and the Environment, Health, and Safety (EHS) Departments are associated with both UMD and UMF campuses.

2. Provide a report of illicit discharges and illicit connections removed.

One new cross connection was identified during this reporting period:

On September 24, 2014, an illicit discharge of wastewater was discovered emanating from a newly installed in-ground kitchen grease interceptor at the South Quad Residence Hall. The MDEQ was notified within hours of the discovery of this illicit discharge. Efforts were immediately undertaken to re-route the discharge from the storm system to the sanitary system. Over the next several weeks, testing and repairs were made to the in-ground grease interceptor to seal the interceptor and prevent further discharge to the storm system. After testing verified the integrity of the grease interceptor, it was put back into service. Periodic inspections of the storm system adjacent to the grease interceptor have shown no evidence of a recurrence of an illicit discharge. A follow-up memo was provided to the MDEQ on November 21, 2014, detailing the cause and corrective measures undertaken by the U-M to eliminate this illicit discharge.

Dye testing was completed by UMA2 at the Little Clarence Cook Science Building (C.C. Little) on July 3, 2014. No new cross connections were identified during this testing event.

The following potential and existing illicit connections, as listed in previous reports, are under further investigation.

- Central Campus Recreation Building (CCRB): It was previously determined that the floor drains in the Machine Room, and possibly the pool drain, are connected to the storm sewer
system. Dye testing is recommended to further evaluate the pool drain and to determine if the drain is connected to storm.

- **UMA2** is continuing follow-up investigations for flows identified during dry weather screening events at the following locations: Literature, Science, and the Arts/Student Activities Building (MH-5); News & Information Services (MH-8); Modern Languages Building (MH-14); Biomedical Science Research Building (MH-20); Wolverine Tower; Briarwood; M-Stores; Northwood III (MH-4); Northwood II (MH-8). Follow-up investigation activities by U-M are being prioritized for review in conjunction with other priority corrections of cross connections and water main replacement projects.

- **Manufactured Gas Plant (MGP):** Although not considered an “illicit connection” it may be relevant to note that during 2011-2012, Consumers Energy, reported that while investigating the company’s former MGP located under and adjacent to property currently owned by the UMF Campus, a sheen along the riverbank adjacent to the university property was observed. This was reported to the MDEQ by Consumers Energy; booms have been deployed, and the situation is being monitored/investigated further. The actual source has not yet been determined but the historic MGP site is considered suspect. Consumers Energy is conducting a significant investigation of the riverbank and sediment immediately adjacent to the UMF campus and the historic MGP site. Consumers Energy continues to keep UMF, the MDEQ, and The City Flint informed of the ongoing monitoring/investigations.

3. Assess BMP appropriateness and progress toward goals identified in the SWMPP.
   **Note:** (Excerpts from the SWMPP are shown in italics.)

   **a. Total Maximum Daily Loads (TMDL)**
   The U-M participates in TMDL reduction efforts throughout the permit cycle for Total Phosphorus – Ford & Belleville Lakes; E.coli – Geddes Pond; Biota – Malletts Creek; E.coli – Rouge River; and Biota – Rouge River.

   **TMDL -1. Major Discharge Points**
   **Measurable Goal:** Review existing outfalls to identify major discharge points discharging directly to surface waters of the state within the portion of the TMDL. Major discharge points are pipes or open conveyances measuring 36 inches or more at its widest cross section.
   **No updates during this reporting period:**
   As previously reported, outfalls have been evaluated to determine if they are “major” discharge points. A list of major outfalls is kept on file. UMA2 has identified four major discharge points within TMDL reaches. O-41 and O-47R discharge directly into Millers Creek. O-30R and O-88R discharge directly to the Huron River.

   UMD identified three major discharge points, two of which discharge directly into the Rouge River and one that discharges into the City of Dearborn’s storm line on Hubbard Drive.

   UMF is not currently in a TMDL program.

   **TMDL -2. Sampling Major Discharge Points**
   **Measurable Goal:** By April 15, 2012, U-M will take samples of at least 50% of the major discharge points within the portion of the TMDL watershed in the urbanized area. At a minimum, these
samples will be analyzed for the applicable TMDL parameter (E. coli or total phosphorus). The sampling results will be retained and reported in the second progress report.

The above goal was completed during a previous reporting period:
As previously reported, UMA2 conducted sampling and analysis of O-41 and O-47R on March 30, 2012 for E. coli and total phosphorus. This represents 50% of the major discharges.

UMD conducted sampling and analysis on all identified major discharge points. Two discharge points were sampled on November 22, 2011 and the last discharge point was sampled on June 19, 2012.

UMF does not discharge to a TMDL watershed.

**TMDL -3. Action Plan to Reduce TMDL Discharges**

**Measurable Goal:** By October 1, 2013, sampling results and other available information will be reviewed. A plan will be developed to reduce the discharge of the applicable TMDL parameter (E. coli or total phosphorus). These prioritized actions will be reported in the second progress report with implementation targeted during the 5-year permit cycle that begins 2013.

No updates during this reporting period:
As previously reported, based on the sampling results and an overall review of the SWMPP, the U-M has developed a plan to reduce the discharges of the applicable TMDL parameters. In an effort to maximize resources and minimize duplicate efforts, U-M is addressing TMDLs in a consistent manner as the Huron River Watershed Council (HRWC) and other area MS4s. HRWC has written a TMDL Implementation Plan for the Huron River Watershed MS4s in Washtenaw County. Aspects of that Implementation Plan are incorporated in the updated SWMPP as part of the NPDES Application for discharge of stormwater to surface waters from an MS4. To comply with the U-M NPDES stormwater permit requirements, the suite of best management practices (BMPs) presented in the updated SWMPP represents project priorities that will be implemented during the new permit cycle which will collectively make progress toward achieving each of the TMDL pollutant load reduction targets. The updated SWMPP includes a schedule, for BMP implementation, and a prioritization process where appropriate. Where relevant, BMPs in the updated SWMPP identify TMDL pollutants that are targeted (e.g., phosphorus, E.coli). Management activities addressing the specific TMDLs have been identified and prioritized in Appendix G of the updated SWMPP.

**b. Public Education Program (PEP) – Education and Outreach on Stormwater Impacts**

Recognizing the need for public involvement in the effort to reduce stormwater pollutants, the U-M has developed a broad stormwater education and outreach program. This multi-faceted program is closely connected to the U-M’s Office of Campus Sustainability (OCS) and its many initiatives. Specifically, the stormwater education curriculum is designed to promote, publicize, and facilitate watershed education while encouraging sustainable practices developed under the U-M’s environmental stewardship agenda. The intended audience for the program is all persons associated with the University who could potentially affect the quality of stormwater discharges, including, but not limited to: campus residents; University faculty, staff, and students; visitors to the campus; contractors and vendors working on the campus; and commercial and industrial operations on campus. U-M’s overall goal for the PEP is to bring awareness of stormwater issues to 70% of the University community by the end of 2013. Levels of stormwater awareness are anticipated to vary widely among the different community groups, with more emphasis given to key staff having greater potential to impact stormwater quality during their day-to-day work activities. The remainder of the
University community is targeted through other means, such as brochures, posters, websites, storm drain markers, public service announcements (PSAs), etc.

The following is a description of each of the public education topics identified in the permit, to be included as appropriate, based on the potential impact on the receiving waters:

- Educate the public of hazards associated with illicit discharges and improper disposal of waste. Part of this education is to encourage public reporting of the presence of illicit discharges or improper disposal of materials into the U-M drainage system.
- Educate the public concerning the water body that would be potentially impacted by improper actions at or near a person’s home.
- Educate the public on the availability, location and requirements for household hazardous waste disposal, travel trailer sanitary wastes, chemicals, grass clippings, leaf litter, animal wastes and motor vehicle fluids.
- Educate the public regarding acceptable application and disposal of pesticides, herbicides, and fertilizers, including the use of phosphorus-free fertilizer alternatives, as appropriate.
- Educate the public on preferred car cleaning agents and procedures for noncommercial car washing.
- Educate property owners with a septic system on proper maintenance and how to recognize system failure.
- Educate riparian land owners of management of lands to protect water quality.
- Educate the public about their responsibilities and stewardship of their watershed.
- Educate the public on the benefits of using native vegetation instead of non-native vegetation.
- Educate commercial and institutional entities likely to have significant stormwater impacts. (At a minimum, commercial food services shall be educated to prevent grease and litter discharges from entering the MS4).

The following educational BMPs are used to meet the requirements of Part I, Section B.1 of the University of Michigan’s NPDES Permit for the Public Education Program (PEP):

**PEP -1. Stormwater Education Brochures**

In cooperation with the U-M School of Natural Resources and Environment (SNRE), OSEH developed a series of brochures to assist various members of the University community in preventing stormwater pollution on campus. The brochures have been designed to meet the overall program objectives for specific audiences.

**Measurable Goal:** Review existing brochures and update as needed. Create additional brochures, tip cards, posters, etc. as new needs are identified. The number of new or revised brochures, flyers or other educational media created will be tracked for inclusion in the progress reports. Copies of brochures (and other handouts/postings) will be kept on file.

**Actions during the reporting period:**

**UMA2:**

The OSEH Department reviewed the available brochures and brochure content over the reporting period. Currently UMA2 has brochures targeting students, faculty & staff, vendors, and film projects. OSEH is attempting to utilize more posters and digital displays (in lieu of paper copy brochures) to publicize the website and provide stormwater education in an effort to promote sustainability of resources with reduced paper waste.
UMA2 OSEH created a stormwater digital display; titled “Keep our Michigan Waters BLUE!” which explained what stormwater runoff is and why it can pose a threat to surface waters. The digital display was exhibited on two flat screen televisions located within the Shapiro Undergraduate Library (one is located in the first floor lobby next to Bert’s Cafe and the second is located on the third floor lobby entrance to the Science Library). The digital displays were exhibited during the fall semester, from late-September through early-December. Additionally, the stormwater digital display was shown during football games on the stadium marquee (general 20 times per game) and on the stadium score boards (generally once per game). See PEP-3 for additional details.

UMA2 OSEH created laminated posters to hang at the Art and Architecture Building after OSEH received calls from the building facility managers expressing concern because students were using art materials outdoors. These posters contained specific content for art students including how to properly manage art materials and how to prevent such materials from entering storm drains. Approximately ten laminated brochures were hung in early July, 2014.

Additionally, UMA2 OSEH participated in the creation of the new U-M Graham Sustainability Institute’s training videos for the Planet Blue Ambassador online training program. One OSEH staff member was interviewed over the summer (2014) for the training video involving water resources and stormwater. All the training videos were released in January of 2015 and involved topics such Energy, Food, Waste, Water, and Community. The videos may be viewed on YouTube at the following link: https://www.youtube.com/playlist?list=PLkpBjHvzRryplN_aHl0_TQ7f4E12tFixN

UMA2 students created a brochure entitled “How to be a greenWolverine” in 2009 as a class project for ENVIRON 391: Sustainability & the Campus. The brochure has since been updated annually by U-M’s Graham Institute and distributed across campus each summer. The brochure content includes information on energy efficiency, waste prevention, land and water management (including a section on water quality/stormwater), and community education/awareness. A copy of the brochure is located at the following website: http://sustainability.umich.edu//media/files/StudentSustainabilityGuide2012.pdf

**UMD:**

UMD EHS continues to distribute their six brochures, bookmarks, and mouse pads during training, orientations and applicable campus activities. These materials provide information pertaining to fertilizers, pesticides, paints, household hazardous waste, pet waste, vehicle maintenance, along with general storm water awareness tips (i.e., defining an illicit spill and providing contact information if one is discovered, etc.).

UMD EHS continues to partner with the University Center and Facilities Operations in efforts to distribute the stormwater vehicle maintenance pamphlet with all faculty, staff, and student parking passes.

UMD EHS has made a conscious effort to incorporate stormwater awareness training within other training programs, including monthly comprehensive laboratory safety training.
Specifically referring to contractors, UMD continues to distribute their “Storm Water: A Shared Responsibility” pamphlet. Along with this pamphlet, contractors that are hired at UMD are required to take the UMD EHS online stormwater training course. This course consists of a 20 minute narrated power point video followed by an eight question quiz. Any contractors that work on campus must sign in with Facilities Operations. During this process contractors receive a badge that provides information on how to report and illicit discharge on campus. UMD EHS continues to make an effort to ensure spill clean-up language is included in the bidding process.

**UMF:**

UMF distributed stormwater education bookmarks to the campus bookstore, library, and information desks on campus. Additionally, bookmarks were distributed at various gatherings where UMF EHS had a table promoting environmental health and occupational safety. Stormwater mousepads were updated and distributed to computer labs on campus and were distributed during various training classes and community gatherings where UMF EHS had a booth.

At UMF, a bulletin board is maintained in the Facilities & Operations break area within the Hubbard Building to promote all aspects of stormwater management/BMPs.

UMF EHS continues to utilize several different flyers to promote stormwater management and related best environmental practices for the UMF campus community. Fliers include a revised version of the MDEQ’s “Our Actions Can Affect Michigan’s Rivers” brochure to specifically identify the Flint River, provide specific contact information to report spills in the UMF community and to highlight the University’s stormwater management website for further information.

UMF EHS updated and continues to distribute the two-sided “Only Rain in the Drain” bookmark that provides campus specific stormwater educational information, including information on the Flint River, and specific things individuals can do to protect drains and surface water. These bookmarks are distributed via the Campus Bookstore, the University Library and are available at UMF Information Centers in several campus buildings.

UMF EHS posts a Stormwater Reference Sheet for Contractors on the UMF EHS website as a tool to educate contractors and project managers about stormwater management and the protection of drains and surface water.

**Measurable Goal:** A minimum of 1,800 brochures will be distributed annually during presentations, training courses and new employee orientation sessions. The quantity of brochures distributed throughout the year will be tracked for subsequent inclusion in the progress reports.

*No updates during this reporting period:*

This information will be provided in the annual report.

**Measurable Goal:** In 2010-2011, develop/add additional brochures to fill any gaps in the topics needed to meet the permit requirements. Keep a copy of newly developed/added brochures with dates finalized.
The above goal was completed during a previous reporting period:
Existing information will be kept on file. Additional accomplishments, completed during this reporting period are provided:

No new brochures were developed during the last six months; however, one brochure entitled, “How to be a greenWolverine” was updated by the U-M’s Graham Institute. UMA2 students created a brochure entitled “How to be a greenWolverine” in 2009 as a class project for ENVIRON 391: Sustainability & the Campus. The brochure has since been updated annually by U-M’s Graham Institute and distributed across campus each summer. The brochure content includes information on energy efficiency, waste prevention, land and water management (including a section on water quality/stormwater), and community education/awareness. A copy of the brochure is located at the following website: http://sustainability.umich.edu//media/files/StudentSustainabilityGuide2012.pdf

Additionally, in the fall of 2013, UMA2 OSEH created a stormwater digital display; titled “Keep our Michigan Waters BLUE!” which explained what stormwater runoff is and why it can pose a threat to surface waters (discussed in further detail in PEP-1 above). This display was displayed for the second time in the Shapiro Undergraduate Library during the fall semester from late September to early December of this reporting period (2014). Furthermore, the UMA2 website was updated with a new dye testing webpage and procedure (refer to PEP-2 for additional information).

**Measurable Goal:** In 2011-2012, create a dissemination strategy to reach the target audiences and any new audiences identified by U-M. Identify educational information available/developed for each target audience applicable at U-M and keep this information on file.

The above goal was completed during a previous reporting period:
Existing information will be kept on file. Strategies developed during this reporting period are provided:

OSEH is attempting to utilize more posters and digital displays (in lieu of paper copy brochures) to publicize the website and provide stormwater education in an effort to promote sustainability of resources with reduced paper waste. Additionally, OSEH is coordinating with U-M Planet Blue and the UMA2 Office of Campus Sustainability (OCS) to promote online training modules and to further strengthen and expand educational resources.

During the 2014 football season, OSEH worked with the Athletics Department to display stormwater content during football games on the stadium marquee and stadium scoreboards. Stormwater content was typically displayed on the stadium scoreboards once per game and on the stadium marquee approximately twenty times per game (see PEP-3 for additional details). OSEH continues to work with the Athletics Department for additional opportunities.

**Measurable Goal:** In 2012-2013, implement the new dissemination strategy/plan for educational brochures. Tally the number of brochures distributed and provide in the annual reports.

The above goal was completed during a previous reporting period:
Existing information will be kept on file. Strategies developed during this reporting period are provided in the previous measurable goal.
PEP-2. OSEH/SNRE/OCS Stormwater Education Web Sites

Developed in cooperation with the U-M SNRE and maintained by OSEH, the Stormwater Education Website builds upon the information contained in the brochures and disseminates information to the general University community and the public at large. This website is intended to help students, employees, and visitors in the U-M community understand how the University’s stormwater system operates, various legal requirements, and what individuals can do to reduce contamination in the stormwater system from surface runoff. As viewers move through the site they learn about stormwater, what they can do to help protect it, how regulations impact the University’s operation, and various safe practices. The UMD and UMF websites also provide topical information for practices potentially impacting stormwater.

Stormwater website content is updated on a regular basis to include pertinent information related to stormwater management and pollution prevention. Current material on the websites can be viewed via the following links: U-M Ann Arbor’s website is found at: www.oseh.umich.edu/environment/storm.shtml, U-M Dearborn’s website is found at www.umd.umich.edu/691923/, and the U-M Flint campus website is found at http://www.umflint.edu/ehs/flint-river-storm-water-management-university-michigan-flint.

An additional website has been developed through the UMA2 Office of Campus Sustainability (OCS) and Planet Blue at http://sustainability.umich.edu/. Through Planet Blue, staff and students can become a Planet Blue Ambassador by completing training modules. More information regarding the implementation of this program is outlined in the additional measures taken to achieve the PEP goals at the end of this section.

Measurable Goal: The number of visitors to the websites will be tracked annually for subsequent reporting. The goal is to have 2,000 website hits annually. This website is intended to help students, employees, and visitors in the U-M community understand how the University’s stormwater system operates, various legal requirements, and what individuals can do to reduce contamination in the stormwater system from surface runoff. This website tally may also serve as an indication of the community seeking additional stormwater information from the link provided in the brochures, as detailed above.

Actions during the reporting period:

As of January 1, 2015 there were 23,325 website hits registered on the UMA2 stormwater website. That equates to 534 hits since the beginning of this fiscal year, which began on July 1, 2014.

The UMD stormwater website received 202 visits during this reporting period.

UMF EHS substantially updated the UMF stormwater website in 2012 and is currently redesigning the format to make the web-site more user-friendly. The UMF stormwater website is available at the following link: http://www.umflint.edu/ehs/flint-river-storm-water-management-university-michigan-flint. In past years, UMF experienced technical difficulties tracking website visits; however, UMF EHS began successfully tracking visits to the website in February of 2013. During the July 2014 – December 2014 reporting period, there were approximately 1,496 sessions from 795 users viewing 4,733 page views of the UMF EHS website. Note: tracked visits are not specific to the stormwater webpage; visits are tracked for the entire UMF EHS website.
UMD EHS provides the general public with stormwater awareness information through the UMD stormwater website. This includes a summary of the stormwater program, what to do if a spill occurs on campus, what we all can do to help, and why it is important along with educational materials. In addition, the website provides links to the NPDES permit, the UMD stormwater management plan, the applicable regulations, previous stormwater reports, and best management practices. The UMD stormwater website also provides links for applicable outside agencies such as The Alliance of Rouge Communities (ARC), the Michigan Department of Environmental Quality (DEQ), Earth 911, Friends of the Rouge (FOTR), and the Southeast Michigan Council of Governments (SEMCOG).

Additionally, UMD EHS continues to maintain an online stormwater training course. The course consists of a 20 minute narrated PowerPoint video followed by an eight question quiz. During this reporting period, 29 people completed the online training.

UMF EHS & Facilities and Operations maintain a website, located at: [http://www.umflint.edu/facilities/contractinfo.htm](http://www.umflint.edu/facilities/contractinfo.htm) to help contractors and project managers quickly locate environmental health and safety information. UMF EHS also maintains a separate departmental link with reference materials and environmental programs for contractors, located at: [http://www.umflint.edu/ehs/environment-health-and-safety-project-review](http://www.umflint.edu/ehs/environment-health-and-safety-project-review). Website topics include: stormwater management, SESC, and environmental due care requirements, all of which are critical in ensuring contractors clearly understand and comply with the University’s stormwater management program and University expectations when working on University property. The web links for the UM construction safety requirements, stormwater management requirements, and SESC requirements are all incorporated into contractor bid specifications and contract documents. Additionally, new this year, a fact sheet was developed specifically for contractors working on UMF campus.

**Measurable Goal:** Review and update existing websites and perform periodic review. Print a copy of website changes made, noting the date of revision, etc. A copy of these changes will be kept on file.

**Actions during the reporting period:**
During the reporting period, OSEH updated several pages on the UMA2 stormwater website, as outlined below:

- A new dye testing webpage was added to the website describing the basics of dye testing and providing helpful hints on how to perform a proper dye test. The new webpage also provides helpful pictures and graphics that aid in the explanation of dye testing. The new dye testing webpage may be found online using the following link: [http://www.oseh.umich.edu/environment/dye.shtml](http://www.oseh.umich.edu/environment/dye.shtml)

- A link to the updated dye testing procedure was added to the new dye testing webpage on October 13, 2014 and can be found at the following location: [http://www.oseh.umich.edu/pdf/guideline/dye_testing_guideline.pdf](http://www.oseh.umich.edu/pdf/guideline/dye_testing_guideline.pdf)

- The 2014 municipal annual stormwater NPDES report was added to the website on October 13, 2014 at the following location: [http://www.oseh.umich.edu/environment/reports.shtml](http://www.oseh.umich.edu/environment/reports.shtml)
**Measurable Goal:** In 2010-2011, create a website information dissemination and coordination strategy (all campuses) to reach the target audiences. Identify educational information available/developed for each target audience applicable at U-M. This information will be kept on file.

The above goal was completed during a previous reporting period:
Existing information will be kept on file. Additional accomplishments, completed during this reporting period are provided:

Improvements to the OSEH stormwater website are continually ongoing. As noted in the previous measurable goal (within the PEP-2 Section), OSEH updated the dye testing procedure and updated the dye testing webpage. OSEH also added the 2014 annual report to the webpage.

**Measurable Goal:** In 2011-2012, develop/add additional topics, weblinks, etc. to fill any gaps in the topics needed to meet the permit requirements. Print a copy of website changes made, noting the date of revision, etc. A copy of these changes will be kept on file.

The above goal was completed during a previous reporting period:
Existing information will be kept on file. Additional accomplishments, completed during this reporting period are provided:

Improvements to the OSEH stormwater website are continually ongoing. As noted in the previous measurable goal (within the PEP-2 Section), OSEH updated the dye testing procedure and updated the dye testing webpage. OSEH also added the 2014 annual report to the webpage.

**Measurable Goal:** In 2012-2013, implement the new dissemination strategy/plan for the stormwater education website. The number of website hits will be tracked for reporting (above).

No updates during this reporting period:
This information will be provided in the annual report.

**PEP -3. Stormwater Management at the University of Michigan - Video & Public Service Announcements**

The video Stormwater Management at the University of Michigan provides viewers with an overview of stormwater issues as they pertain to University operations and activities. The video begins with an overview of the UM-A2’s stormwater drainage system and it’s receiving bodies followed by a synopsis of the legal requirements that mandate the NPDES permit and the development of a stormwater management program. The remainder of the video focuses on how stormwater can become polluted because of human activities. It proceeds to inform viewers of the University’s actions to protect stormwater quality in the following areas: salt use and deicing activities, waste management and spill response, campus planning and expansion, cleaning outdoor equipment and vehicles, chemical disposal practices, and food vendor training.

This video or other stormwater video content is offered for viewing on an as needed basis for inclusion in faculty and staff presentations, classes, workshops, etc.

**Measurable Goal:** The number of offerings of stormwater videos will be tracked annually for subsequent reporting in the progress reports. A listing of available stormwater videos will be kept on file.
No updates during this reporting period:
This information will be provided in the annual report.

**Measurable Goal:** Stormwater, waste disposal, and recycling related Public Service Announcements will be distributed annually for use during the football season home games. These short educational messages will provide stormwater information to visitors, students, staff and contractors attending the U-M football games. The total anticipated audience for these messages is over 107,000 per game. An example announcement follows: Did you know that anything that enters a storm drain goes to a river, pond, or lake untreated? Pop, juice, coffee, food items, or debris should not be dumped into storm drains- they should be disposed of properly. So do your part and help keep our Michigan waters BLUE!

**Actions during the reporting period:**
Public Service Announcements (PSAs) were made at seven U-M football home games during the 2014 football season, reaching an audience in excess of 730,000 people. PSAs were played at football entrance gates approximately fifteen times per game. Additionally, an educational stormwater display was posted on the stadium scoreboards once per game and on the stadium marquee approximately twenty times per game.

Due to the fact that the UMD Fieldhouse is not equipped with an announcement system, stormwater signs remain posted in the Fieldhouse. These signs provide contact information for reporting illicit discharges and spills and provide a link to the UMD stormwater website.

**PEP -4. Stormwater Education Presentations (includes Training Sessions, Workshops, etc.)**
Stormwater education presentations are provided to key staff having greater potential to impact stormwater quality during their day-to-day work. The remainder of the University community is targeted through other means. The presentations discuss the stormwater drainage system; the need for protecting the quality of stormwater discharges; the NPDES permit, its legal requirements, and the stormwater management program; and the most common stormwater pollutants and ways to limit their effects on stormwater. The presentations can also feature the stormwater video.
Stormwater education is provided during new employee orientation sessions (all employees at the U-M), new laboratory employee training classes and at new Plant employee training classes. In addition, presentations including stormwater topics are provided on an annual basis to UM-A2 Plant staff which includes the following sub-groups:

- Building Services,
- Construction Services (including the Cabinet, Sign, Glass, and Upholstery shop departments),
- Facilities Maintenance (including HVAC, Plumbing, Pumps, Steam Distribution & Insulation, Electrical, Fire Systems, Elevators, Roofing, Metal Crafts & Machine Repair shop departments),
- Grounds & Waste Management Services,
- Utilities & Plant Engineering (includes purchasing, generation, distribution, conservation, and accounting of utilities for the University), and the Work Control group (responsible for single point of contact for services, all estimates and preventive maintenance planning).
**Measurable Goal:** Stormwater topics will be included in a minimum of 50 classes, workshops or presentations annually. The number of sessions including training on stormwater issues will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**Measurable Goal:** A minimum of 500 laboratories will be inspected annually. The inspections will include a review of issues impacting stormwater quality, chemical storage, waste management and disposal. These inspections may also serve as an indicator of the effectiveness of stormwater education received, or the need for additional education. The number of inspections performed annually will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**Measurable Goal:** All outdoor food vendors will receive training/education including related stormwater issues annually. Food establishment inspections will include items to ensure stormwater BMPs are being followed. These inspections may also serve as an indicator of the effectiveness of stormwater education received, or the need for additional education. The number of inspections performed will be tracked annually for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**Additional measures taken to achieve goals:**

**UMA2:**
- OSEH continues to work with U-M football stadium vendors/concession stands to prevent potential discharges from entering the stormwater system. Concession stands were posted with signage detailing procedures for proper grease and wastewater management during the 2013 football season. A total of 50 laminated brochures were posted in the fall of 2013, prior to the onset of the 2013 football season. OSEH plans to replace any missing signs ahead of the next football season (2015).

- Through the Planet Blue Ambassador program students, faculty, and staff can complete training modules on different relevant topics (e.g., water). For the Water module portion of the Planet Blue Ambassador Training, students and staff are encouraged to make stormwater protection pledges including, but not limited to:
  - I will always properly dispose of extra household hazardous waste (HHW)
  - I will fix any oil or other automotive fluid leaks on my vehicle immediately
  - I will wash my vehicle on a permeable surface or at a carwash that reuses water
  - I will properly dispose of my extra medications and not flush them

- The U-M has a 24-hour Emergency Response Team to quickly and efficiently respond to and mitigate releases of polluting materials on campus. The campus community is encouraged, through presentations, training, signage, and other educational materials, to report illicit discharges and spills to OSEH/UMD EHS/UMF EHS and to the U-M Police Department (UMPD) so appropriate measures can be taken to correct issues which may impact stormwater
quality. The response team is primarily comprised of U-M staff as well as 24-hour emergency response vendors to efficiently respond to and mitigate releases on campus.

- As part of the UMA2 Spill Prevention Control and Countermeasure Plan (SPCC), initial and annual refresher training is provided to applicable staff. All appropriate staff are trained in the laws and regulations regarding spills, releases, and pollution control; the contents of SPCC; and the operation and maintenance of equipment to prevent discharges.

- In July, 2014 U-M staff members attended workshops/tours at the U-M Arboretum and/or Matthaei botanical Gardens to learn how native plants and rain gardens help treat stormwater runoff and improve water quality.

- On September 17, 2014 “2014 Earthfest” was held at the UMA2 campus. This event promoted overall sustainability practices including waste prevention and healthy environments. UMA2 OSEH created and staffed a stormwater poster board display describing the differences between sanitary and stormwater systems, what stormwater runoff is, why stormwater runoff can be a problem, and provided examples of stormwater best management practices (BMPs). Additionally, UMA2 OSEH hosted a demonstration on porous pavement which allowed interested students and staff to pour water through a sample of porous concrete and asphalt to better understand how porous materials perform.

- UMA2 OSEH developed an online Stormwater Pollution Prevention Plan (SWPPP) training module for all applicable operational staff and facility managers at fleet maintenance and storage yards involved in the U-M SWPPP program. As of January 1, 2015, 40 U-M staff members from over seven different facilities had successfully completed the online training

- OSEH developed snow storage guidelines for snow storage practices on the UMA2 campus. The guidelines were developed to ensure comprehensive environmental protection during winter snow storage months and during the snow melt season.

- OSEH provided guidance to U-M Facility and Maintenance staff for stormwater BMPs during the cleaning of rooftop cooling towers.

**UMD:**

- The exhibit area at the UMD Environmental Interpretive Center (EIC) is open to the public six days a week from 10 am until 5 pm. The exhibit area contains several interactive exhibits that allow the visitors to learn about various aspects of the Rouge River Watershed, water quality concerns and conservation efforts and practices. These exhibits are also used in formal education programs and university courses. The exhibits begin with an overview of the concept of a watershed and aerial photo of the Rouge River so visitors can get a perspective of the entire area of southeastern Michigan. The multi-media videos offer three, six-minute videos about the watershed, hydrologic cycle, and the problems the Rouge River is facing. The exhibit area also houses several kiosks that encourage visitors to find ways to be a part of the solution with steps to improve water quality at home.

- The UMD campus continues to maintain the single stream recycling program that began on July 1, 2014. The program is projected to divert 1.4 million pounds of waste from entering landfills; 1,913 metric tons of carbon dioxide emissions (equivalent to taking 69 cars off of the road); and
will save 4.3 million gallons of water, 3.4 million kWh of energy, and 9,982 trees over a 5 year period.
http://www.umd.umich.edu/singlestreamrecycling/

- The EIC hosts monthly Stewardship Saturdays. Volunteers are called upon to participate in the removal of invasive species and garbage from the EIC grounds near the Rouge River.

- UMD has been directly promoting or distributing educational information or indirectly by supporting local agencies that are involved in such activities. Examples include the following:
  - UMD EHS promotes the UMD website on educational materials including the six (6) brochures, the bookmark, and the stormwater mouse pads. The website contains links to local agencies including FOTR, ARC, SEMCOG, the MDEQ, Earth 911, and local county websites which provide information on household waste collection dates and locations.
  - UMD EHS partners with several internal groups around campus to pass out stormwater materials. This includes Mailing/Parking and the University Center who pass out Car Care brochures with parking passes to all faculty, staff, and students; Public Safety who pass out stormwater brochure packets during student orientation; and the campus library and bookstore who pass out bookmarks throughout the year.
  - UMD partnered with FOTR and hosted two Rouge Rescue Events in 2014; 27 volunteers assisted in the event at the EIC and HFE and 19 volunteers assisted in the event at the EIC. Both events involved the removal of invasive species.
  - FOTR have office space on the UMD campus and host monthly Public Involvement Task Force Meetings, Rouge Education Project Task Force Meetings and board meetings. FOTR facilitates several volunteer monitoring programs including benthic macroinvertebrate monitoring, frog and toad surveying, and fish monitoring. Additionally, FOTR provides various workshops and educational presentations as well as play active roles in restoration projects within southeastern Michigan. Reports and additional information on their services can be found on their website at http://therouge.org/.
  - UMD maintains three (3) pet waste stations along the “Rouge River Gateway Greenway Trail” which runs through campus.
  - All UMD safety training classes include information on the importance of stormwater protection and how to identify an illicit discharge, how to report spills, and who to call if an illicit discharge or a spill is observed.
  - UMD EHS updated the UMD SPCC/ Pollution Incidence Prevention Plan (PIPP).

**UMF:**

- A bulletin board in the Hubbard Building displays reminders and tips for employees on how to protect storm drains and ultimately the Flint River.
All Hazard Communication, Hazardous Waste, PPE, HAZWOPER, and other general safety training classes address the difference between sanitary and storm drains, illicit discharges, reporting spills, protection of drains, and who to call if an illicit discharge or spill is observed.

UMF EHS employed three student interns in 2014. One of the interns, from the Earth and Resource Science Department, helped to update the UMF SPCC /PIPP and the SWPPP for the UMF campus. The intern also helped with spill prevention education, stormwater management education, and related environmental initiatives. The second intern devoted time to health and safety training/awareness, to updating the Chemical Hygiene Plan, and to updating various Standard Operating Procedures, which provide a safer environment within the labs on campus. The third intern helped to improve the organization and formatting of educational information on the UMF EHS website.

SPCC/PIPP, Stormwater Management and Environmental Due Care training is provided to select employees in Facilities & Operations. The training is offered at least every 2-3 years. Training covers BMPs, housekeeping, protection of storm drains, reporting spills, etc.

UMF promotes the local Genesee County Household Hazardous Waste Collection in the spring and summer of each year.

Annual Earth Day events and activities include participation of many local environmental organizations including the Flint River Coalition and the Flint River Corridor Alliance (in which UMF is a member of both). During the annual Earth Day events, participating organizations provide educational materials on how to protect the Flint River, by handing out brochures. In addition, organizations participate in one-on-one discussions with University and community members about specific actions individuals can do to improve water quality, how individuals can report problems, how individuals can get involved, and how individuals can participate in river clean ups, etc. Participating organizations also offer presentations to the general public during the Earth Day event. Planning efforts for the 2015 UMF Earth Day Celebration (scheduled for April 11, 2015) have been underway since December 2014.

UMF Outreach and student clubs, like Future Urban Environmental Leaders and the Black Student Union, partner with members of the Flint River Watershed Coalition (FRWC) to organize several (3-4) Flint River clean up volunteer days in the spring and fall. The University coordinates the student and community volunteers while the City of Flint coordinates the transportation and disposal of the trash and debris that is picked up & pulled from the banks of the river by volunteers.

UMF EHS meets with contractors prior to starting jobs to go over environmental and occupational safety requirements; this includes discussion of soil management, University’s construction safety requirements, protection of storm drains, etc. UMF EHS staff also conducts random inspections of work sites to ensure cautionary measures are in place prior to, and during, contractor work. In some cases, SESC weekly inspections are conducted.

At UMF, the campus community is instructed through trainings, posters, signage, websites, display boards, bookmarks, flyers, and e-mail communications to contact UMF Public Safety in the event of any emergency, including those involving a potential release of pollutants to a sewer
or surface water. Additionally, individuals are instructed to always attempt to protect nearby drains if a material is spilled in the area, if it is safe to do so.

- UMF’s University Outreach continues to be an engaged and active supporter of: promoting environmental stewardship, watershed management planning, greening of the community, stormwater intervention workshops, Flint River clean ups, and volunteer projects throughout the City of Flint including the Genesee County area and surrounding counties within the Saginaw Bay Watershed. For more information about past and present University Outreach activities in the community regarding watershed management, contact Sara McDonnell at (810) 424-5489, or visit http://www.umflint.edu/outreach/land-water-people.

- The web links for the U-M construction safety requirements, stormwater management requirements, and SESC requirements are all incorporated into contractor bid specifications and contract documents during the reporting year.

c. Public Involvement and Participation

The University encourages public input in all aspects of its stormwater management program. In order to facilitate public participation, this plan and information related to the stormwater management program are made available on the stormwater web site. By viewing the Annual Reports that are placed on the web site, the general public and members of local stream and watershed protection organizations can make themselves aware of activities the University carries out under its stormwater management program. In addition, when new stormwater management program plans are developed and finalized, the City, County, and interested local stream and watershed protection organizations are allowed to review and comment on them. Website feedback link(s) will be provided to facilitate feedback on the SWMPP from the community.

One public awareness group that UM-A2 works with on a regular basis is the Huron River Watershed Council (HRWC). Many of the HRWC’s goals are consistent with the University’s ideals for the preservation and protection of the surrounding natural water bodies. As a result, the University has established an participates in partnership with the HRWC and has provided input to the HRWC on issues concerning the Total Maximum Daily Load program for water bodies that lie within the Huron River Watershed.

The following BMPs are used to meet the requirements of Part I, Section B.2 of the University of Michigan’s NPDES Permit for Public Involvement and Participation (PIP):

**PIP -1. Stormwater Reports**

**Measurable Goal:** The SWMPP and NPDES reports will be made available on the U-M stormwater web site. The date of addition to the website will be tracked for subsequent reporting.

**Actions during the reporting period:**

The municipal annual stormwater NPDES report for 2014 was added to the U-M OSEH stormwater website on October 13, 2014.

**PIP -2. Community Meeting Participation**

**Measurable Goal:** The U-M will attend a minimum of ten (10) meetings annually with local watershed/creekshed organizations like the Huron River Watershed Council (HRWC), Washtenaw County Drain Commission, City of Ann Arbor (A2), the Millers Creek Action Team (MCAT), Flint
River Corridor Alliance, Flint River Watershed Coalition, Friends of the Rouge or other local stream protection organizations for collaboration on stormwater issues in the community. U-M’s participation in meetings, community events, etc. with these groups will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**PIP -3. Stormwater Management Program Plan - Community Feedback**

**Measurable Goal:** The City, County and interested local stream and watershed protection organizations will be notified of the online availability of the U-M SWMPP for review and comment on the same frequency the information is provided to the Department. The SWMPP will be accessible on the U-M website for review by the public. Any comments received will be reviewed by U-M OSEH/UMD EHS/UMF EHS and evaluated for inclusion in the SWMPP. Comments submitted and any actions taken in response to comments will be documented and kept on file.

The above goal was completed during a previous reporting period:

**PIP -4. Middle Huron Initiative Participation / Phosphorus TMDL Participation**

**Measurable Goal:** The U-M will participate in meetings of the Middle Huron Initiative (typically semi-annual) to address the Ford & Belleville Lake TMDL on phosphorus reduction throughout the permit cycle. Attendance at these meetings will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**PIP -5. E. coli TMDL Participation**

**Measurable Goal:** The U-M will participate in Geddes Pond – E. coli TMDL efforts throughout the permit cycle. Management activities addressing E. coli include dry weather screening and illicit discharge elimination, semi-annual catch basin cleaning, pollution prevention, and public education. These efforts as well as attendance at meetings/events on this issue will be documented for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

**PIP -6. Environmental Stewardship / Volunteer Opportunities**

**Measurable Goal:** The U-M will sponsor/offer a semi-annual volunteer opportunity for participants to get involved with stormwater improvement and education programs. Examples of opportunities include storm drain stenciling/marking and invasive species removal projects. The number of volunteer events offered will be tracked annually for subsequent reporting. The number of participants in volunteer stewardship events will be tracked for subsequent reporting.

**Actions during the reporting period:**
A volunteer invasive species removal event was held in Ann Arbor on October 4, 2014. There were a total of 24 volunteers. Semi-annual events are planned for 2014, with the spring event being planned for late March/ early April 2015. In addition, the U-M Office of Campus Sustainability webpages include volunteer opportunities in a variety of areas including stormwater/water quality to encourage the U-M community to get involved.

The UMA2 Radrick Farms Golf Course was awarded the 2014 Clean Corporate Citizen (C3) designation from the MDEQ. According to Jim Sygo of the DEQ, “Michigan’s C3 program is
one of the most rigorous and long-standing environmental stewardship programs in the nation, requiring facilities to have an active Environmental Management System; a strong environmental compliance history; and pollution prevention goals and measures in place.” While the Radrick Farms Golf Course is outside of the urban area boundary, U-M still considered this prestigious award worth mentioning.

The U-M received a 2014 Tree Campus USA recognition from the Tree Campus USA program, sponsored by the Arbor Day Foundation and Toyota. According to Tree Campus USA, there are five requirements to receive this recognition, including: “establishment of a tree advisory committee, evidence of a campus tree-care plan, dedicated annual expenditures for this campus tree program, an Arbor Day observance and the sponsorship of student service-learning projects.”

UMD surveyed both the main campus and the Fairlane Center storm drains and re-marked those which had missing or destroyed markers (approximately 200) in August of 2014.

The EIC hosts monthly Stewardship Saturdays. Volunteers are called upon to participate in the removal of invasive species and garbage from the EIC grounds near the Rouge River.

UMD partnered with Friends of the Rouge and hosted two Rouge Rescue Events in 2014; 27 volunteers assisted in the event at the EIC and HFE and 19 volunteers assisted in the event at the EIC. Both events involved the removal of invasive species.

FOTR have office space on the UMD campus. They host monthly Public Involvement Task Force Meetings, Rouge Education Project Task Force Meetings and board meetings. FOTR facilitates several volunteer monitoring programs including benthic macroinvertebrate monitoring, frog and toad surveying, and fish monitoring. Additionally, FOTR provides various workshops and educational presentations as well as play active roles in restoration projects within southeastern Michigan. Reports and additional information on their services can be found at http://therouge.org/.

An estimated ten individuals participating in UMF EHS’s stormwater stenciling activities.

Additionally, several student organizations organized individual Flint River Clean-up events during Summer and Fall of 2014.

Planning efforts for the 2015 UMF Earth Day Celebration and Recycling Challenge have been underway since December 2014. The Earth Day Celebration Event is scheduled for April 11, 2015 and the Recycling Challenge is scheduled for March, 2015. Additionally, an e-waste collection event is being planned for late April, 2015. Additional information will be provided in the annual report.

**Measurable Goal:** In 2010-2011, meet with local watershed/creek groups to identify joint activities and opportunities to meet permit requirements. Identify local creek/watershed groups, etc. timeframes, staffing and participation opportunities. This information will be kept on file.
The above goal was completed during a previous reporting period:
U-M OSEH continues to meet with local watershed/creek groups such as the Fleming Creek Advisory Council (FCAC), HRWC, Mallets Creek Coordinating Committee (MCCC), and MCAT, as appropriate. Additionally, U-M continues to contribute to the Middle Huron Initiative (MHI) activities. Additional information will be provided in the annual report.

**Measurable Goal:** In 2011-2012, develop a participation plan for all campuses. Keep records of meetings attended, possible opportunities for coordination with local groups, etc. This information will be kept on file.

The above goal was completed during a previous reporting period:
U-M OSEH continues to meet with local watershed/creek groups such as the Fleming Creek Advisory Council (FCAC), HRWC, Mallets Creek Coordinating Committee (MCCC), and MCAT, as appropriate. Additionally, U-M continues to contribute to the Middle Huron Initiative (MHI) activities. Additional information will be provided in the annual report.

**Measurable Goal:** In 2012-2013, implement the participation plan. Tally the number of meetings attended for annual reporting (as detailed in goals above). U-M OSEH continues to meet with local watershed/creek groups such as the Fleming Creek Advisory Council (FCAC), HRWC, Mallets Creek Coordinating Committee (MCCC), and MCAT, as appropriate. Additionally, U-M continues to contribute to the Middle Huron Initiative (MHI) activities. Additional information will be provided in the annual report.

**Additional measures taken to achieve goals:**
- OSEH/UMD EHS/UMF EHS staff members continue to create, improve, and revise project/contract specifications for inclusion of BMPs during construction and renovation projects on campus.
- The U-M continues to work with the local City governments and watershed organizations to improve stormwater quality. This is accomplished through sharing information and resources.

**d. Illicit Discharge Elimination Program (IDEP)**
The removal of illicit discharges is an ongoing program being conducted by the U-M. As illicit discharges are identified, they are discontinued or otherwise corrected. The program described in this section will be used to determine the existence, location, and extent of possible illicit connections and discharges to the stormwater drainage system. At a minimum, it will address the elements presented in Part I, Section B.7 of the Permit.

The UM-A2 has been involved in an ongoing program for identifying and controlling non-point source pollution to the Huron River. The Huron River Pollution Abatement Project was developed from a grant from the federal Clean Water Act and used by the UM-A2 to identify illicit connections to the stormwater system. The project was completed in 1990.

The U-M will continue to encourage reporting of water quality problems and possible illicit connections and discharges to the stormwater system. OSEH, Plant Operations, and/or Facilities Management will receive reports of water quality problems and possible illicit connections and perform follow-up investigations, leading to elimination where appropriate.

The following BMPs are used to meet the requirements of Part I, Section B.3 of the University of Michigan’s NPDES Permit for the Illicit Discharge Elimination Program (IDEP):
IDEP -1. Storm Sewer Map

**Measurable Goal:** By February 1, 2011 the U-M will create a storm sewer system map identifying the location of all if its discharge points and the names and locations of all the surface waters that the MS4 discharges into.

The above goal was completed during a previous reporting period:
As previously reported, storm sewer maps identifying outfalls at Ann Arbor, Dearborn and Flint have been completed. Geographic Information System (GIS) integration of the outfall information from each campus is ongoing.

A GIS mapping system was completed for the Ann Arbor campus in 2010. Updates to the system will continue, as needed.

UMD updates campus stormwater maps as needed; updated information is sent to a vendor to provide up-to-date master copies.

UMF completed GPS mapping for outfalls into the Flint River or City of Flint MS4. In addition, a labeling plan to identify catch basins to specific outfalls has been completed. The updated maps were used for 2012 dry weather screening activities. Additional mapping of catch basins occurred in September - October of 2013 during the development of the UMF SWPPP and some minor revisions to the maps occurred in the summer of 2014.

**Measurable Goal:** The storm sewer system map will be updated periodically as discharge points are identified or added. The dates of modification of the system map will be tracked and kept on file.

**Actions during the reporting period:**
UMA2 continues to work with the Plant Utilities Department to review and update the storm sewer maps as changes/updates are needed.

UMD updates campus stormwater maps as needed; updated information is sent to a vendor to provide up-to-date master copies.

UMF EHS partnered with University Outreach staff to complete GIS mapping of storm drains and outfalls on campus. This information was also used for two other related projects related to 2012 dry weather screening and hazard mitigation planning activities. Additional mapping, data review, and quality assurance was conducted on the GIS maps for storm drains in 2013 - 2014.

IDEP -2. Survey of Facility Discharge Points

**Measurable Goal:** U-M will create a prioritized listing for the performance of dry-weather screening considering the criteria in Part I.A.7.b.2 of the permit. The list will be developed in 2011 to ensure the use of the most up to date storm sewer system map/information will be utilized. The list will be kept on file.

The above goal was completed during a previous reporting period:
Existing information will be kept on file.

IDEP -3. Dry Weather Screening

**Measurable Goal:** The U-M will perform dry weather screening on each MS4 discharge point at least once every 5-years beginning on February 1, 2010, (per Part I.A.7.b.3) to determine the
existence, location, and extent of possible illicit discharges into the U-M stormwater drainage system on all three campuses. This is typically done during four to five rounds of screening. Any issues identified for further investigation or correction will be tracked for subsequent reporting. The number of illicit discharges and connections identified and subsequently corrected or removed will be tracked for subsequent reporting.

**Actions during the reporting period:**

In conformance with the revised, MDEQ approved (November 4, 2013), dry weather screening program guideline, UMA2 completed dry weather screening of all outfalls with a direct discharge to surface waters of the State. Based on the most up to date UMA2 GIS data, it was determined that there are 70 discharge points that meet the screening requirement criteria. Of these 70 outfalls screened, it was determined that four (4) outfalls had flow that warranted follow-up sampling. Initial visual and olfactory screening did not indicate any potential concerns from the four outfalls with flow. Preliminary evaluation of the sampling analytical data indicates that these flows are not a significant contributor of pollution and do not pose a threat to human health or the environment, however; the U-M will include these in an ongoing list of items for backtracking to determine the source of the flows, and to make corrections if warranted.

UMD performed dry weather screening on two major outfalls (DOF-001 and DOF-006) on May 21, 2012. As of September 2014, UMD EHS dry weather screened 186 catch basins.

UMF completed dry weather inspections on all 13 outfalls associated with the campus between the months of June and October 2012. The inspections were performed following the guidance in U-M’s January 2010 Dry Weather Screening Program Guideline for the University of Michigan. Flow was observed at four of the outfalls during dry weather conditions. Two of the sources were backtracked to off campus sources, and the remaining two were determined to be building foundation sump pumps. The complete report, including figures, analytical data and field data sheets, was provided as an attachment to the April 2013 Mid-Year Report.

**IDEP -4. Public Reporting of Illicit Discharges**

**Measurable Goal:** The emergency response system on campus will be maintained by DPS (24/7) for use by the public to report illegal dumping, spills or suspicious discharges at the University throughout the permit term. The number of calls received by the DPS/OSEH emergency response call system on potential discharges to the stormwater system will be tracked for subsequent reporting. The number of incidents remedied as a result of these calls will also be tracked and reported annually.

**No updates during this reporting period:**

This information will be provided in the annual report.

**Additional measures taken to achieve goals:**

- **Recycling Efforts** – The U-M promotes environmental awareness by sponsoring recycling programs on campus. Educational materials have been developed by Grounds and Waste Management (G&WM) which address student contributions to the U-M recycling effort, educate students on the types of recyclables and where they may be taken for recycling, and educate students on the impact that recycling has on the environment.

- OSEH sanitarians continue to work with kitchen and food vendors on campus to ensure proper waste management and disposal methods are used. In addition, OSEH continues to work with
U-M football stadium vendors/concession stands to prevent potential discharges into the stormwater system. Concession stands were posted with signage detailing procedures for proper grease and wastewater management for these operations during the 2013 football season to reinforce proper waste management for these temporary operations. OSEH plans to replace any missing signs ahead of the next football season (2015).

- The University continues to review owned facilities in an effort to identify discharges into the storm and sanitary systems. As part of this survey, any areas that contain suspect flows are noted for potential dye testing.

- OSEH requires that new building construction and building renovation projects resulting in new and/or modified internal piping be dye tested to confirm proper connection to the sanitary system. This requirement is in place for projects where more than 10 fixtures are impacted, and dye testing is also required of new construction projects and renovations for confirmation of taps to exterior pipes.

- Erosion Control – Part 91 of the Natural Resources Environmental Protection Act (NREPA) provides for a statewide soil erosion and sedimentation control program. This program outlines the proper provisions for water disposal and the protection of soil surfaces during and after construction and is adhered to by the U-M.

- Employee Training and Education – U-M personnel involved in the application of herbicides, pesticides, and fertilizers have been trained and are licensed applicators. All applicators in the following departments are trained and licensed: G&WM, Facilities Management Grounds Department, Matthaei Botanical Gardens, Nichols Arboretum, Radrick Farms, and Athletics. In addition to the courses taken through the Michigan Department of Agriculture, G&WM also employs a foreman to train all of its employees. Training programs will also be conducted to address the purpose and operation of BMP activities under this SWMPP. In addition, staff in various departments have received, or are in training to receive certification from MDEQ in Stormwater Management – Construction Site, Stormwater Management – Industrial Site or Soil Erosion & Sedimentation Control.

- Hazardous Materials Response – OSEH, UMD EHS & UMF EHS are instrumental in maintaining a safe and healthy environment for faculty, staff, students, and visitors. Routine training is provided to new faculty, staff, and students regarding hazardous materials and conditions at U-M facilities. The University also maintains spill response teams (U-M staff and contracted vendors) for each campus that can quickly and efficiently respond to and mitigate releases of hazardous materials.

- Hazardous Waste Disposal – OSEH is responsible for the appropriate collection and disposal of hazardous waste and hazardous materials used and generated by the U-M units. The program ensures tracking of the materials from point of generation through collection and ultimate disposal. Personnel are properly trained and appropriately licensed to handle the material and transport the waste on campus. Qualified contractors are used for ultimate transport and disposal off site. The UMD EHS and UMF EHS oversee the disposal of hazardous wastes on their respective campuses. UMD EHS and UMF EHS personnel are properly trained in the Resources Conservation and Recovery Act (RCRA) and the University utilizes qualified contractors for transport and proper disposal of waste off site.
- Plan Review – OSEH, UMD EHS & UMF EHS review plans for the renovation of existing structures and the construction of new facilities. The plans are reviewed to identify potential environmental concerns and to ensure the protection of stormwater quality and the stormwater drainage system.

- Stormwater Basins – Stormwater management basins are used to reduce the impact of stormwater discharges from campus locations. Although the primary function of these basins is to provide first-flush holding capacity for stormwater, the design also provides for sediment deposition within the basin structure which can significantly reduce pollutant loads in receiving waters.

- UMF EHS routinely walks the campus and inspects loading dock areas, dumpsters, facilities operations and vehicle maintenance/storage areas, and refueling operations to ensure that materials continue to be stored properly, secondary containment is functioning and any outdoor storage containers remain in good condition.

e. Post-Construction Stormwater Control for New Development and Redevelopment Projects
The U-M has a program to address stormwater runoff from new development and redevelopment projects. As part of this program, the U-M manages, reviews, and continually updates campus-wide planning to address stormwater runoff from each new regulated development and redevelopment project. This program helps to ensure that controls are in place that will minimize and in some cases prevent impacts on water quality from new development and redevelopment projects that disturb areas greater than one acre or disturb areas less than one acre but which are part of a larger common plan of development.

PCSW -1. Post-Construction Stormwater Runoff
**Measurable Goal:** By August 1, 2009 U-M issued the Post-Construction Stormwater Requirements guideline which details the minimum treatment volume standard and the channel protection criteria. The guideline is provided in Appendix G of the SWMPP.

The above goal was completed during a previous reporting period:
As previously reported, the Post-Construction Stormwater Requirements Guideline was submitted to MDEQ on July 28, 2009.

PCSW -2. SESC Plan Review for Structural & Non-Structural BMPs
**Measurable Goal:** OSEH/UMD EHS/UMF EHS and/or the University Planner’s Office will review all construction and renovation plans for use of structural and non-structural BMPs to prevent receiving water quality from the impacts of development and limit the rate at which surface water runoff discharges from any specific site to not exceed the pre-development hydrologic regime. The number of sites implementing various non-structural and structural BMPs will be tracked annually for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

PCSW -3. Operation & Maintenance of BMPs
**Measurable Goal:** Stormwater management basins on campus will be inspected annually, at a minimum. The number and frequency of inspection of stormwater basins will be tracked for subsequent reporting. Maintenance issues identified during these inspections will be tracked until corrected.
Actions during the reporting period:
Annual inspections are to be completed on the stormwater management basins on campus by U-M personnel during spring 2015.

UMF inspects catch basins as part of dry weather screening activities. Additionally, during normal grounds area inspections, drains and areas around drains are also inspected, and if problems are observed they are reported and appropriately corrected.

PCSW -4. SESC Plan Review for PCSW Controls
Measurable Goal: OSEH/UMD EHS/UMF EHS and/or the University Planner’s Office will review all plans to ensure projects have adequate post construction stormwater management controls. The number of plan reviews will be tracked annually for subsequent reporting.
- No updates during this reporting period:
  This information will be provided in the annual report.

Additional measures taken to achieve goals:
- Construction sites are stabilized with the addition of permanent controls and vegetation to reduce the amount of sedimentation that could impact receiving waters.

f. Construction Stormwater Runoff Control
In 1982, the U-M received approval from the Michigan Department of Natural Resources to operate as an Authorized Public Agency (APA) under the authority of Part 91, Soil Erosion and Sedimentation Control (SESC) of the Natural Resource & Environmental Protection Act, 1994 PA 451, as amended (Part 91). Reauthorization of U-M’s APA status was received in 2004 from the Michigan Department of Environmental Quality. APA status allows the U-M to establish and manage the Soil Erosion and Sedimentation Control procedures on its properties. Construction activity at U-M may involve contractor or in-house construction activities performed by Plant Operations.

The overall CSW program accomplishes the following goal:

Provide and implement controls to minimize or prevent impacts on water quality from construction activity.

The following BMPs are used to meet the requirements of Part I, Section B.5 of the University of Michigan’s NPDES Permit for Construction Stormwater (CSW):

CSW -1. Site Plan Reviews
Measurable Goal: Formal SESC plans are required for sites with earth disturbance (greater than 24 hours) of 1 acre or greater and projects (of any size) within 500 feet of “Waters of the State.” The number of SESC site plan reviews will be tracked annually for subsequent reporting. This review process allows OSEH/UMD EHS/UMF EHS to require projects to insert stormwater management controls into the front end of all projects.
- No updates during this reporting period:
  This information will be provided in the annual report.
CSW -2.  Best Management Practices (for SESC on Construction Sites)

**Measurable Goal:** The use of BMPs is required on all projects under the approved SESC Procedures for the University. The number of projects using the Best Management Practices identified above for SESC will be tracked annually for subsequent reporting. BMPs will be selected as appropriate for site conditions.

No updates during this reporting period:
This information will be provided in the annual report.

CSW -3.  SESC Inspections

**Measurable Goal:** Sites will be inspected weekly and after rain events until final stabilization of the project site. The number of SESC inspections performed annually on U-M sites will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

CSW -4.  SESC Training by MDEQ

**Measurable Goal:** Select staff from OSEH, UMD EHS, UMF EHS, AEC, and the University Planner’s Office will be SESC trained by MDEQ. The number of U-M staff who have received MDEQ SESC training will be tracked annually for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

CSW -5.  Stormwater Operator Certification for Construction Sites

**Measurable Goal:** Select U-M staff from OSEH, University Planner’s Office and Construction Management/AEC will be certified in Stormwater Management for Construction Sites. The number of U-M staff who have received MDEQ certification will be tracked annually for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

CSW -6.  Sedimentation Control During Maintenance Activities

**Measurable Goal:** The use of SESC controls is required for all maintenance projects involving earthwork. The number of SESC inspections performed annually on U-M sites will be tracked for subsequent reporting.

No updates during this reporting period:
This information will be provided in the annual report.

Additional measures taken to achieve goals:

- Contractors at U-M are required to clean/sweep construction areas and adjacent areas to prevent trackout from a work site.

- A street sweeper is recommended by U-M for contractor usage at construction sites to reduce the amount of sediment that could potentially reach receiving waters.

- The stormwater drainage system is vacuumed periodically to remove sediment buildup within the system and to lessen potential sediment impacts to receiving waters.
- The post construction stormwater guidelines and soil erosion and sedimentation control requirements for construction projects are incorporated into the project specifications and bid documents.

- At UMD, street sweeping occurs approximately twice a year at the main campus, once in the spring and once in the fall, and monthly at the Fairlane Center. The parking structure is swept at least once a year. Street sweeping is available when necessary.

- UMD personnel pick up litter and debris on a daily basis from the main campus streets and parking lots and three times a year at the Fairlane Center.

- At UMF, street sweepers are available, on an as-needed basis. The street sweepers are used at least once, usually twice per year, on all parking ramps and main roadways. The street sweepers are used in high priority areas more frequently such as at loading docks, near compost areas, and the Hubbard Parking area.

- UMF personnel walk the campus regularly to check on project sites and address potential issues with responsible parties (e.g. covering a dumpster, debris/litter, inappropriate outdoor storage by contractors, etc.)

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g. Pollution Prevention/Good Housekeeping for Municipal Operations

The University’s stormwater pollution prevention and good housekeeping initiatives include, but are not limited to the following six areas:

- Structural Controls
- Roadways
- Fleet Maintenance
- Storm Sewer Labeling
- Flood Control Projects
- Pesticides and Fertilizers

Each area has operation and maintenance BMPs with the ultimate goal of reducing and in some cases preventing pollutant runoff from University operations to the maximum extent practicable.

The overall P2/GH program accomplishes the following goal:

Develop and implement a program of operational and maintenance Best Management Practices to prevent or reduce pollutant runoff from University operations.

The following BMPs are used to meet the requirements of Part I, Section B.6 of the University of Michigan’s NPDES Permit for Pollution Prevention & Good Housekeeping (P2/GH):
P2/GH -1. Stormwater Management Basin Inspections  
**Measurable Goal:** Stormwater management basins will be inspected annually during the permit term. The number and frequency of inspections on the U-M retention basins and detention basins will be tracked for subsequent reporting.  
**Actions during the reporting period:**  
Annual inspections of the stormwater management basins on campus are to be completed this spring (2015) by U-M personnel.

P2/GH -2. Stormwater Catch Basin Maintenance  
**Measurable Goal:** Maintenance cleaning of the catch basins and storm sewer system piping will be performed periodically, with higher traffic areas and those identified via service requests receiving more attention. The goal will be to clean all catch basins in the system at least once per 5-year cycle. The number of catch basins maintained will be tracked for subsequent reporting.  
**No updates during this reporting period:**  
This information will be provided in the annual report.

P2/GH -3. Municipal Properties with Stormwater Controls  
**Measurable Goal:** By October 1, 2011 a list of municipal properties and structural stormwater controls owned or operated by U-M will be created, which includes the type and number of properties and structural controls. This listing will be kept on file.  
**The above goal was completed during a previous reporting period:**  
As previously reported, this information will be kept on file. This list is continuously updated as U-M properties are renovated and constructed and as new stormwater BMPs are installed. Updates also occur when U-M acquires new properties.

P2/GH -4. Street Sweeping, Leaf, and Litter Collection  
**Measurable Goal:** Street sweeping, leaf and litter collection will be performed periodically throughout the permit term. The cost for disposal and estimated quantity of debris, trash, dirt, etc. disposed from the maintenance and cleaning/sweeping of numerous parking structures, surface lots and roadways throughout the University will be tracked for subsequent reporting.  
**No updates during this reporting period:**  
This information will be provided in the annual report.

P2/GH -5. TSS Runoff Reduction from Paved Surfaces  
**Measurable Goal:** A strategy to reduce the runoff of total suspended solids (TSS) from paved surfaces to the maximum extent practicable, with a goal of reducing the annual TSS loading by 25% as compared to annual loading with no suspended solids controls will be developed (2010-2012) and implemented (2013) at the University. An estimate of the TSS loading reduction achieved through this strategy will be provided in the progress reports.  
**The above goal was completed during a previous reporting period:**  
Existing information will be kept on file. Note that the reduction of TSS loading is primarily achieved through street sweeping practices.

P2/GH -6. Unpaved Road and Parking Lot BMPs  
**Measurable Goal:** Develop BMPs to control dust and suspended solids in runoff from unpaved roads and parking lots. A list of unpaved roads and parking lots will be created (2010-2011).  
**The above goal was completed during a previous reporting period:**  
As previously reported, this information will be kept on file for UMA2.
There are no unpaved roads or parking lots on the UMD and UMF campuses.

P2/GH -7. Prohibition of Coal Tar use as Asphalt Sealant

**Measurable Goal:** The use of coal tar emulsions to seal asphalt surfaces will be prohibited, as required in the permit. Plan reviews for construction and renovation projects involving asphalt will include comments from OSEH/UMD EHS/UMF EHS prohibiting the use of coal tar emulsions for U-M projects. Comments on construction and renovation projects are kept on file at the OSEH/UMD EHS/UMF EHS offices.

  **No updates during this reporting period:**
  As previously reported, U-M prohibits the use of coal tar asphalt sealants. Additionally, U-M projects that involve sealing parking lot surfaces incorporate the NPDES permit language prohibiting coal tar emulsions to seal asphalt surfaces.

P2/GH -8. Snow and Ice Removal – Reduction in Salt Use

**Measurable Goal:** Incremental annual reduction in the use of salt for de-icing to reach 50% reduction based on an average annual use of 2600 tons per year from 1989 to 1999. The quantity of salt used for deicing will be tracked on an annual basis.

  **No updates during this reporting period:**
  This information will be provided in the annual report.


**Measurable Goal:** Increase the use of alternative de-icers annually to replace/supplement salt use. The quantity of alternative de-icers will be tracked on an annual basis.

  **No updates during this reporting period:**
  This information will be provided in the annual report.

P2/GH -10. Pesticide and Fertilizer Technician Training

**Measurable Goal:** All applicators (technicians) will be trained in pesticide and fertilizer use. The number of pesticide and fertilizer technicians will be tracked on an annual basis.

  **No updates during this reporting period:**
  This information will be provided in the annual report.

P2/GH -11. Roadside Vegetative Replacement

**Measurable Goal:** Eliminate the need for vegetative replacement due to salt damage to the maximum extent practicable. The need for replacement vegetation will be tracked for subsequent reporting.

  **No updates during this reporting period:**
  This information will be provided in the annual report.

P2/GH -12. Storm Sewer Labeling

**Measurable Goal:** U-M storm drains will be marked with the message "Dump No Waste - Drains to Waterways", "Keep our Michigan Waters Blue: Dump No Waste - Flows to River" (or similar message) during the permit cycle. The number of storm drains marked will be tracked annually for subsequent reporting.

  **No updates during this reporting period:**
  This information will be provided in the annual report.

Measurable Goal: In 2010-2011, Develop an education program for U-M staff involved in fertilization of turfgrass at U-M. Also include a strategy to disseminate the requirements to contractors at U-M.

The above goal was completed during a previous reporting period:
As previously reported, this information will be kept on file.

UMA2 has not used phosphorus in turf-fertilizers for approximately five years.

UMF EHS and Facilities & Operations worked together to implement a revised safe application distance from the Flint River during the summer of 2010. Facilities & Operations continues to maintain a buffer of 20 to 40 feet from the river that may only be spot treated as necessary. Two new Facilities and Operations grounds keeping staff have been trained and received their pest management and Integrated Pest Management (IPM) certification. This will be useful as UMF continues to employ best management practices to protect surface waters while managing turf/landscaping on campus.

Measurable Goal: In 2011-2012, implement a turfgrass fertilization education program for appropriate U-M staff and contractors. Identify educational information available/developed for each target audience applicable at U-M.

The above goal was completed during a previous reporting period:
As previously reported, information about the Michigan restrictions on the use of phosphorus-containing fertilizer on turf grass was provided to Facilities & Operations staff responsible for managing grounds/landscapes. Additionally, select Facilities employees attended stormwater management employee training where this information was covered.

Actions during the reporting period:
U-M employees certified in IPM routinely attend workshops/seminars to maintain their certification and stay up on new information/technologies as it relates to turf and landscape management.

UMD has a contract with TruGreen to conduct large treatments/spraying. TruGreen has a non-phosphorus policy.


Measurable Goal: In 2010-2012, Develop a stormwater pollution prevention plan (SWPPP) for all fleet maintenance and storage yards/facilities at U-M.

The above goal was completed during a previous reporting period:
As previously reported, SWPPPs have been developed for all fleet maintenance and storage yard facilities on the UMA2, UMD, and UMF campuses. The completed (signed) SWPPP(s) will be kept at each facility.

Measurable Goal: In 2013, implement all SWPPP for fleet maintenance & storage yards at U-M.

The above goal was completed during a previous reporting period:
As previously reported, SWPPPs have been implemented at all fleet maintenance and storage yard facilities on the UMA2, UMD, and UMF campuses. The completed (signed) SWPPP(s) will be kept at each facility.
Actions during this reporting period include the following:
During this reporting period, quarterly SWPPP inspections and an annual inspection were completed at each fleet maintenance & storage yard at U-M and annual SWPPP training was also completed by applicable operational staff at each Facility.

Additional measures taken to achieve goals:

- As previously reported, the UMA2 campus launched a bike rental program on campus, Blue Bikes, in the fall of 2012. The program is operated by Outdoor Adventures within Recreational Sports; the program was developed in collaboration with Parking & Transportation Services, the Office of Campus Sustainability and the University Planner’s Office.

- U-M partnered with the Ann Arbor’s Clean Energy Coalition, the City of Ann Arbor, Ann Arbor Transportation Authority, and the Downtown Development Authority to launch a new bike share program called, ArborBike. ArborBike launched ten of fourteen bike share locations in September, 2014 and will launch the remaining four bike share locations this spring. Each share location includes several rental bikes that are available for any bike share member.

- As reported in PIP-6, the U-M Radrick Farms Golf Course was awarded the 2014 Clean Corporate Citizen (C3) designation from the MDEQ. According to Jim Sygo of the DEQ, “Michigan’s C3 program is one of the most rigorous and long-standing environmental stewardship programs in the nation, requiring facilities to have an active Environmental Management System; a strong environmental compliance history; and pollution prevention goals and measures in place.” While the Radrick Farms Golf Course is outside of the urban area boundary, U-M still considered this prestigious award worth mentioning.

- In September of 2011, former U-M President Mary Sue Coleman revealed several sustainability goals for the entire University. One such goal is to reduce synthetic land management chemicals by 40% by the year 2025, as compared to a 2006 baseline measurement. As of this year (2015), the use of synthetic land management chemicals has already been reduced by 54%, as compared to the 2006 values.