

## SUMMARY ENVIRONMENTAL ACTIVITY REPORT

February 2014 (*updates in italics*)

<u>Project/Activity</u>	<u>Description</u>	<u>Status</u>
Portage City Landfill	Ongoing groundwater monitoring of former municipal landfill.	-City Council awarded a 3 year contract to American Hydrogeologic Corporation (AHC) on February 23, 2010 to perform annual groundwater sampling. The site groundwater data will continue to be monitored to confirm continuation of the natural attenuation process. General groundwater quality continues to improve, but site will require monitoring for the foreseeable future. 2011 sampling completed in March. Investigation into methane gas presence in the groundwater continues. First round of sampling completed in April 2012. Second round of sampling completed in June 2012. Initial results indicate no off-site impact. Annual report submitted to MDEQ. Review meeting held September 21, 2012 with MDEQ with follow-up in October. AHC currently compiling MDEQ sampling requirement costs necessary for closure at the former landfill site. 2013 sampling contract approved by City Council with AHC on July 23, 2013. Weekly methane sampling is continuing on-site to collect base line data. No harmful methane levels have been detected to date. AHC is proceeding with the installation of private methane detection device at several adjacent properties. <i>Soil boring installation will begin as weather allows.</i>
Site Inspection/Development Project Review	Review of existing business & industries and review of proposed business and industrial development projects for environmental protection purposes and/or building plans completed.	-Coordination with property owners and City or State agencies ongoing. <i>-Review of 8 site/building plans and/or plats completed in February 2014.</i>
Sewer Connection Program	Groundwater protection program requiring residential/business hookup to the sanitary sewer where available.	<i>-Sanitary sewer hookup permits issued in February 2014: 2 residential; 1 commercial.</i>
West Lake Management Program	Special assessment district designed to maintain/improve lake conditions. Special emphasis on weed control and non-point source pollution reduction.	-Five Year Lake Management Assessment District process was approved by City Council on March 23, 2010. Construction began on the Austin Dam reconstruction in December 2006 and new structure completed in March 2007. Filtration system construction was substantially completed in July 2008. Permitting underway for the 2014 season. Treatment to be performed by Aquatic Services, Inc. The Association has selected to use Restorative Lake Sciences, LLC for consulting services for 2014. Treatment application schedule for mid-June. Follow-up inspection of treatment will be done by Restorative Lake Sciences, LLC. <i>The Lake Board is working on a five year plan in preparation for a new special assessment district in summer 2014.</i>

Retention Basin Sampling Program (Groundwater Elevation)	Investigation regarding potential impact of retention basins on groundwater levels.	-Historical monitoring continues to show minor impacts at most basins. From 1993 through 2009 the monitoring program showed stable groundwater impacts due to storm water infiltration. Alternative road salt practices continue to be considered and evaluated. On March 23, 2010, City Council awarded a four-year contract to Wightman Environmental. This program will focus primarily on groundwater level information. The 2012 report received and groundwater levels, especially on the east side of Portage, have decreased as a result of seasonal rainfall deficiencies. Groundwater table elevations show about a 6 inch increase over 2012 levels due to recent rain events. The 2013 report was received noting minimal impacts. The 2013 report is available on the website for public information.
Wellhead Protection Program (WHPP)	Development of program to protect City well fields and surrounding area from contamination resulting from improper land use.	-Wellhead Protection Grant award received from MDEQ on August 30, 1999 and Council accepted the grant on October 5, 1999. Council also awarded contract to Earth Tech to complete WHPP. Earth Tech completed the final wellhead protection plan and MDEQ submittal was made on October 14, 2000. Plan was reviewed by MDEQ with written approval received in March, 2001. Staff has met internally to discuss the future needs to update the plan pending grant opportunities. Staff participated in a MDEQ Water Supply Emergency planning roundtable on June 10, 2013. Update of the program will be initiated as part of the Water Reliability Study. Plan implementation is ongoing.
Leaf Compost Monitoring Program	Monitoring and analysis of groundwater at the new Oakland Drive Leaf Compost site.	-City Council awarded contract on August 21, 2001 to Soil & Materials Engineers for monitoring and analysis of groundwater impact of the new compost operation. Drilling was completed in October 2001 and first sampling cycle was completed in February 2002. Semi annual sampling was performed from 2002 to 2011 in June and January. Sampling and analysis results continue to show no groundwater impacts from the leaf composting. Sampling schedule was reduced to annual sampling in 2009 with results showing continued minor impact on groundwater quality. Sampling completed in June 2012 with minimal groundwater impacts. Sampling completed in June 2013 with results showing minimal impact. Next sampling in June 2014.
National Pollution Discharge Elimination System (NPDES) permit implementation	Five year plan to implement the current NPDES stormwater permit.	-Received NPDES general permit on August 15, 2001. Renewal Application submission was made to MDEQ on March 7, 2003. New permit received in 2004 mandates involvement in several county watershed groups. City staff completed the submission of a Storm Water Pollution Prevention Initiative (SWIPPI) as required by NPDES permit. New certificate of coverage permit was issued by MDEQ on September 30, 2009. New permit covers a 5 year timeframe with first work item (updating the Public Participation Plan) completed

December 11, 2009. SWIPPI was submitted for MDEQ approval on June 25, 2010. Received a notice from MDEQ rescinding the 2008 permit due to a recent court case ruling. MDEQ reinstated the 2003 permit for implementation. Information on new permit requirement was received in February 2011. MDEQ expected to issue new permit in 2014. The 2010-11 annual report was submitted on January 20, 2012. MDEQ scheduled an audit of the program on July 12, 2012. Audit completed with satisfactory results. Several follow-up items with MDEQ were addressed by staff in December 2012. City website updated in February to provide education of Illicit Storm Water Discharge. Currently, staff is working on proposals with other local governments to use a billboard advertising campaign for pollution awareness. Program implementation is ongoing. Annual 2012-13 report was submitted on December 24, 2013. *Comments received back have been reviewed by staff and response is underway.*

National Pollution  
Discharge Elimination  
System (NPDES) permit  
implementation

Kalamazoo River Mainstream Watershed  
Management Plan

-First meeting was held September 17, 2004. Proposals for completing the watershed plan were received by Kalamazoo County on September 15, 2005 and a contract awarded to Kieser & Associates in November 2005. Draft watershed plan submitted to MDEQ on December 30, 2005. Review comments received from MDEQ and revised watershed plan due in December 2006. A letter not to revise the Watershed Plan was submitted to the MDEQ on March 17, 2008. Public participation plan update submitted to MDEQ on November 24, 2009. Kalamazoo River Watershed council completed a watershed update in November, 2011. No new developments.

Portage River Watershed Management  
Plan

-Public participation plan submitted June 28, 2004. Proposals for a Watershed Management Plan were received by the Kalamazoo County Road Commission and a contract awarded to the Kalamazoo County Conservation Service in November 2005. Draft watershed plan submitted to MDEQ on December 30, 2005. A letter not to revise the Watershed Plan was submitted to the MDEQ on March 17, 2008. Public participation plan update submitted to MDEQ on November 24, 2009. Based upon MDEQ comments, the plan was revised and resubmitted on December 21, 2009. Interest has been raised by local conservation groups to update the current Watershed Plan using grant funds. Meeting held on May 9, 2011 among stakeholders to determine interest in updating the current Watershed Plan. Second meeting held on June 20, 2011, and grant application submitted by Kalamazoo and Calhoun County Conservation District to update the Watershed Plan. Grant for watershed update was awarded to Calhoun County Conservation District. First kick-off meeting held December 13, 2012 to introduce working partners and information gathering. A meeting was held on March 12, 2013 to discuss the designated uses of the Portage River/Little Portage Creek watershed, the total maximum daily load of E-coli

from samples taken and a review of community ordinances and policies that help protect the Watershed. Meeting held on June 11, 2013 to discuss identified water quality problems in the watershed. Meeting held on December 11, 2013 to inform stakeholders of progress on data collection. Next meeting scheduled for March 2014.

Plan to implement and maintain an Illicit Discharge Elimination Program (IDEP).

-On October 21, 2001, City Council awarded a contract to Fishbeck, Thompson, Carr and Huber for the Portage Creek element of the IDEP, which was completed in July 2002. On February 19, 2002, City Council approved a new ordinance as required by the NPDES permit titled "Storm Water Illicit Discharges and Connections." On April 28, 2004, City Council accepted a grant from the State of Michigan in the amount of \$152,264 and awarded a contract to Fishbeck, Thompson, Carr and Huber in the amount of \$184,264 for the remainder of the IDEP for the entire city. Program implementation is ongoing as funding allows. Continued outfall sampling is required by permit and will be budgeted accordingly. IDEP program was updated for submittal to MDEQ on June 25, 2010, and part of the SWIPPI. Two potential illicit discharges were investigated with MDEQ in February 2012. Completed an area-wide brochure to educate the public on Illicit Storm Water Discharges in conjunction with the Kalamazoo County Drain Commissioner. The 2013 program of investigating storm water outfalls began in June and is complete. Implementation is ongoing.

Storm Sewer Outfall Testing

On March 23, 2011, City Council awarded a four year contract to Wightman Environmental to perform testing of selected storm sewers which discharge to surface water. This work is required as part of the NPDES permit. The 2011 annual report received with minor surface water impacts from the Woodland Avenue discharge. The 2012 report received with continuing minor impacts from the Woodland Avenue outfall. 2013 results were received in November. Testing results are reported to MDEQ as part of the NPDES annual report.

Garden Lane Arsenic Removal Facility

Construction of a water treatment facility at the Garden Lane Wellfield to remove arsenic, iron and manganese from the groundwater.

Facility is in operation with ribbon cutting held August 2, 2010. The facility is producing approximately one million gallons of water per day. Facility is in regular operation. Plant tour for Stryker Engineering group was held on June 19, 2012. City Staff in conjunction with the Environmental Board is working on a sustainable native planting landscape design with Native Connections, Inc., for the facility. Regrading and installation of native landscaping seeding completed on November 16, 2012. Spring 2013 germination produced promising results. Native species plants successfully established. Native plant weeding and fall mowing is complete. Staff currently working with the Environmental Board on informative signs and long-term maintenance plans.

Environmental Incident/Spill Clean Up Notification	Environmental Protection Program to assist Portage Police/Fire Departments with spill containment and spill cleanup.	Emergency spill response contract for 2013-14 with Terra Contracting has been renewed. <i>The number of environmental incident/spill investigations performed in February – 1. Number of environmental cleanups in February – 1. A spill occurred on February 12 at Southland Mall driveway. The spill was contained and clean up completed by responsible party.</i>
Southwest Michigan Regional Sustainability Covenant	Collaborative effort with local government, academic, and other stakeholders to lead toward environmental, economic and social sustainability.	On May 12, 2009, City Council approved the Southwest Michigan Regional Sustainability Covenant. A sustainability work session was held April 14, 2010, to review elements of the covenant in cooperation with the City of Kalamazoo and the City of Battle Creek. A grant application was made to MDEQ for a greenhouse gas inventory study of the area. Notice received July 15, 2010 that the grant application was not successful. City staff attended a September 10, 2010 meeting in Grand Rapids to discuss sustainable economic, environment, and society programs. No new developments.