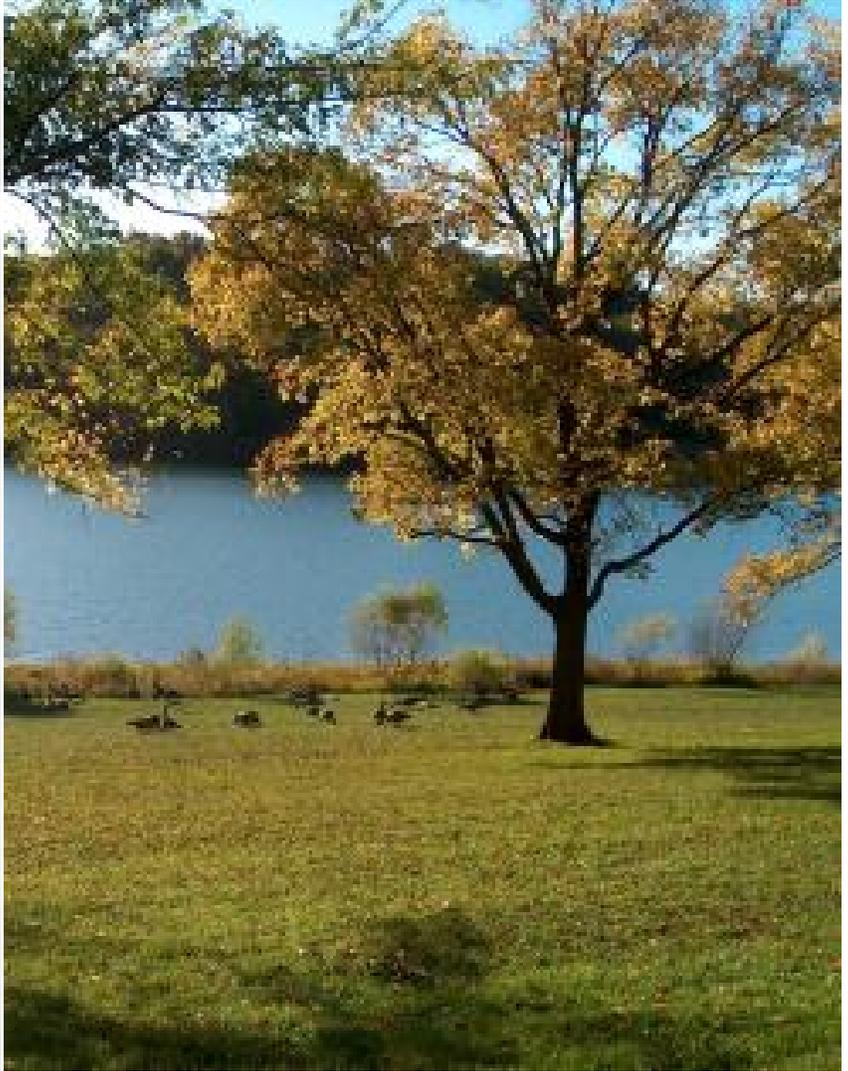


Stormwater Management Program Annual Report

Unified Government of Wyandotte County | Kansas City, KS

February 26, 2016



Compliance Year 3 (2015)



Unified Government of Wyandotte County/Kansas City, Kansas
STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT

Compliance Year 3 (2015)

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1.0 INTRODUCTION

Kansas Water Pollution Control MS4 Permit. On December 18, 2015, the Kansas Department of Health and Environment (KDHE) issued the Unified Government of Wyandotte County/Kansas City, Kansas (UG) a new MS4 NPDES Permit effective January 1, 2016. The Kansas Water Pollution Control MS4 NPDES Permit No. M-MO25-SO01 requires the UG to submit an Annual Report to KDHE which: (A) addresses the status of compliance with the permit conditions, assesses the appropriateness of UG's best management practices (BMPs), and explains progress toward achieving measurable goals for each minimum control measure (MCM) as well as the statutory goal to reduce pollutants discharged from the MS4 to the Maximum Extent Practicable (MEP); (B) includes results of information collected and analyzed, including monitoring data used to assess the success of the program at reducing the TMDL pollutants; (C) includes a summary of stormwater activities scheduled to be undertaken in the previous calendar year and the status of these activities; (D) includes a summary of stormwater activities scheduled to be undertaken in the next reporting cycle (including an implementation schedule); (E) includes a map showing the jurisdictional Permit Area; (F) includes a description of significant changes in any of the BMPs including those in the SMP implementing the six minimum control measures; (G) includes updated ordinances or resolutions associated with the SMP or the six minimum control measures; and (H) includes a summary of the inspection results and information obtained under Monitoring Industrial Discharges section of this permit.

United States Environmental Protection Agency (EPA) Partial Consent Decree. The final Partial Consent Decree (PCD) was lodged with and signed by the U.S. District Court on May 20, 2013. Within the PCD, there were specific requirements and compliance measures related to the UG's separate storm sewer system. In general terms, the MS4 related compliance measures included the following:

- **Stormwater Management Plan (SMP) Implementation.** Except for certain Standard Operating Procedures (SOPs) outlined in the PCD and described below, the UG is to implement the SMP and the SOPs included therein immediately upon the Date of Lodging. *(The UG has been implementing the SMP and SOPs since January 1, 2013.)*
- **Standard Operating Procedures.** The UG is to provide to EPA and the KDHE, for review and comment, no later than March 31, 2013, the following SOPs; a) Section 7.A.1 – Plan Review, b) Section 7.A.2 – Site Inspection, and c) Section 7.A.3 – Enforcement. Thirty days following the EPA's review and comment period, the UG is to implement the procedures outlined in each SOP. *(These particular SOPs were submitted to EPA and KDHE on March 30, 2013, and are being followed as part of the UG's Stormwater Management Plan.) The 2015 plan continues to follow the SOPs as developed.*

- **Legal Authority.** By June 30, 2014, the UG is to certify that it has adopted and will maintain the Code of Ordinances that confers authority to perform inspections, to assess penalties, to issue enforcement orders, to issue stop-work orders, to require Industrial Facilities to address discharges to the MS4, and to require owners of privately owned BMPs to perform necessary maintenance and repairs. *(The UG's legal department provided this certification prior to June 30, 2014.)*
- **Funding.** Beginning with the first compliance year, the UG is to ensure there is adequate funding for each operating year that is reasonably expected to be sufficient to implement all measures in the SMP and to comply with its NPDES permit. *(The UG annually provides adequate funding that is reasonably expected to be sufficient for implementation and management of its MS4 Program.)*
- **Personnel and Training.** The UG is to maintain adequate personnel and/or retain outside contractors to comply with MS4 provisions of the PCD and that all persons responsible for compliance receive necessary and appropriate training. *(In 2012, the UG created and staffed a Stormwater Program Management Group within the Public Works Department, who are tasked with ensuring that all provisions of the SMP are being implemented. The UG has also engaged the services of Alfred Benesch and Company to assist in management of the program. Training on stormwater-related issues and control measures is annually provided to key UG staff members.)*

For the purposes of implementing the EPA-approved SMP and in order to comply with the requirements of the PCD, Compliance Year 1 (CY1) was designated to begin on January 1, 2013. This Annual Report summarizes the activities and implementation progress for Compliance Year 3 (CY3), from January 1, 2015 through December 31, 2015. The UG notes that the entirety of CY3 fell under our previous MS4 permit, which was replaced with a new permit with an effective date of January 1, 2016.

Stormwater Management Plan. The UG's Stormwater Management Plan (SMP) was approved by the EPA on March 21, 2013. The SMP is intended to be detailed with respect to procedures and protocols for implementing the stormwater best management practices (BMPs) so that UG personnel in the various departments and divisions have ample guidance and instructions. The SMP also allows the UG to allocate financial resources in an efficient and effective manner, consistent with the objectives of the NPDES permit. The SMP is a comprehensive program to manage the quality of stormwater discharged from UG's storm sewer system. The content of the SMP is based on the requirements of the KDHE permit for the MS4, and also includes BMPs for Industrial Activity Stormwater Runoff Management, which the expired state NPDES permit did not contain.

In accordance with the new MS4 Permit, the UG has revised the SMP. Consistent with the PCD, the UG has retained the original SMP (including BMPs, measurable goals and intent) through 2017, only making changes to the SMP for years 2016 and 2017 if required by the new permit. The SMP will extend the current BMPs and programs through 2018 and 2019. All new BMPs, or revisions to the existing BMPs or Measurable Goals will go into effect in 2018, although development of these programs will occur at an earlier date (in 2016 or 2017). The revisions to the SMP include:

1. Changed acronym for Stormwater Management Plan from SWMP to SMP
2. Changed nomenclature for Compliance Year (CY 2) to calendar year (2014)
3. Revised paragraphs for continuity and reasonableness (ex. Deleted “Within the first year...”)
4. Replaced those measurable goals completed in a given compliance year with a paraphrased summary and reference to the Annual Report the completed goal can be found in.
5. Added a paragraph in SMP Introduction summarizing revisions
6. Added measurable goals to review and evaluate various SOPs
7. Added new BMPs to be implemented in 2018
 - a. Create and Maintain a Speaker Bureau
 - b. Conduct Outreach to Natural Stream Owners
 - c. Engage Commercial Facilities That Have a Potential to Contribute Pollutants to the MS4
 - d. Perform Sampling Activities at Wet Weather Monitoring Sites (Added to reflect current practices and add new permit requirements)
8. Added BMP and Measurable Goals to Industrial Activity SW Runoff Program
9. Modified and added measurable goals to the Wet Weather Monitoring Program
10. Revised measurable goals (effective in 2018) where information and lessons gained through implementing program elements allowed the UG to set more realistic goals.

MS4 Service Area. EPA and the state are authorized to regulate discharges from the MS4 owned or operated by UG as a point source under the Clean Water Act. Although some programs may be undertaken for the entire area, the SMP is meant to address only the MS4 service area (hereinafter, “service area”). The service area is comprised of those properties that discharge stormwater into the UG stormwater system. It does not include properties that are served by UG’s combined sewer system (CSS) (largely comprised of areas in the eastern part of the UG geographical area, including, the following watersheds: Fairfax Industrial District, Esplanade Creek, Jersey Creek, Splitlog Creek, Central Industrial District, Muncie Bluff Creek, Armourdale, parts of Argentine, parts of Turkey Creek, Brush Creek, and Matoon Creek). It does

not include properties that discharge stormwater into stormwater conveyance systems pursuant to separately-issued NPDES permits, properties that discharge stormwater directly into local waterbodies (direct dischargers), or properties located within the City of Bonner Springs, the City of Edwardsville, within the Delaware Township (unincorporated, not within the urbanized area), and the City of Lake Quivira. The service area will be further refined with future updates to the existing maps of the MS4 as the program continues to move forward. A map of the current MS4 service area is included in Appendix B-1.

2.0 STORMWATER MANAGEMENT IMPLEMENTATION AND PROGRAM EVALUATIONS

Program Objective. The objective of the SMP is to implement specific programs to reduce pollutant discharges from the UG's MS4, to the maximum extent practicable (MEP). Noted water bodies in the MS4 service area are the Wyandotte County Lake, the Missouri River, and the Kansas River. Implementation of the identified BMPs will lead to the reduction of the discharges of Total Maximum Daily Load (TMDL) regulated pollutants as well as Principal Pollutants of Concern (PPOC) to these water bodies and other area streams, lakes and creeks.

Major Stormwater Management Program Highlights and Accomplishments – CY3. The UG continues to facilitate major accomplishments in the on-going development of its overall stormwater management program. Major program activities which commenced or occurred during CY3 are summarized below:

- Industrial Activity Stormwater Runoff Management Program Implementation. The SMP requires the UG to develop and implement a program to address stormwater runoff and discharges from industrial facilities, specifically those industries as defined in 40 CFR 122.26(d)(2)(iv)(C). An ordinance for this new program was considered and adopted by the City Council on May 1, 2014, and is now included in the UG's Code of Ordinances.

The UG continues to implement the program, having inspected two facilities in 2015. The information gathering, inspection forms and procedures continue to improve, making the process more efficient and resulting in gathering pertinent information. The industries inspected to date have been very cooperative and have addressed any deficiencies in a timely manner.

- Illicit Discharge Detection and Elimination (IDDE) Program. The UG assembled an Outfall Inspection Team and inspected over 250 major outfalls within the MS4 service area. Of those outfalls inspected and documented, only one (1) was identified to be a suspect illicit discharge. Sampling and testing of the discharge was conducted by Water Pollution Control Staff with the results summarized in Appendix B. Lab results indicated the discharge was not in fact illicit. No further investigation was necessary.

The UG also responded to three (3) reports of illicit discharges within the UG's jurisdiction. The incidents were handled professionally and thoroughly. The discharges were cleaned and remediated quickly. A summary of IDDE investigations can be found in Appendix B.

- Reducing Stormwater Impacts on Wyandotte County Lake. To protect the integrity of Wyandotte County Lake, the NPDES permit and SMP require the UG to implement and enforce BMPs within the Lake's watershed to reduce the discharge of TMDL regulated pollutants (sediment and total phosphorus). Secchi Disk depth readings were taken at three locations in the main body of the lake before Memorial Day, Independence Day, and Labor Day to record lake clarity. Also, water samples were taken from four locations in the southern and eastern tributaries of the lake and analyzed for eight (8) different parameters. A copy of the results from this sampling effort can be found Appendix B.
- Post-Construction Stormwater Management Program Activities. The UG maintains an inventory of public and private stormwater treatment facilities (SWTF), or structural BMPs, located throughout the UG's service area. The current BMP Registry for public and private locations can be found in Appendix B. The UG's Code requires the property owner to inspect any stormwater treatment facility every two years to ensure they continue to function as designed. To help new owners understand their SWTF and the requirements of the ordinances, the UG elected to conduct the first inspection for each owner at no cost. The UG also offered to conduct the first inspection for any treatment facility constructed prior to December 31, 2014. Any site constructed after this date and any future 2-year inspections are to be conducted by the owner.

The UG inspected 16 sites with BMPs in 2015. Thirteen of the inspections were full inspections with a representative of the property owner present during the inspection and 3 inspections were partial inspections conducted within the street right-of-way. Partial inspections were conducted due to a lack of cooperation or inability to coordinate a meeting with the owner. These partial inspections were conducted to confirm the existence of structural BMPs on the property. Further enforcement action is being taken at this time to coordinate a full inspection with these 3 properties. An inspection report was generated and a letter was sent indicating compliance or deficiencies with the maintenance and/or management of the SWTF. Follow-up inspections are scheduled for those sites requiring modifications, repairs or planting/media replacement. A summary of inspections can be found in Appendix B.

- Stormwater Quality Public Education Grant Program Development. A Stormwater Quality Education Grant Program was established in 2014 to help fund educational projects and activities related to stormwater quality and to encourage public education and participation. The main goal of the Grant Program is the improvement of surface water quality in Wyandotte County. To accomplish this goal, this program was developed to

provide financial assistance for programs, projects, or activities which provide public or private education related to stormwater quality. The UG can award up to \$30,000 annually, with successful applicants receiving grants of up to \$5,000 per project. Grants are awarded on a competitive grant application process. The grant program was introduced to the public in February 2015 and will be available again in 2016.

There were applications sent and selected for a total of \$20,000 grant money. The program was considered very successful and was well received by participants. The applications and final reports can be found Appendix A.7.

Overall Program Strengths. Reviewing the strengths and areas for improvement is necessary and an important step in implementing and maintaining a successful Stormwater Management Program. Acknowledging its strengths, the UG can build on its successes, establish a firm foundation, and effectively grow the program.

- Public Education and Participation. The UG continues to be very active in addressing the requirements for public education, outreach, and participation. By utilizing existing resources, distributing SW reference materials, and developing new messages regarding stormwater issues, the UG has taken steps to increase citizen knowledge and awareness of the need to reduce stormwater pollution. Examples of public participation included: the stormwater drainage inlet stenciling “Drains to Streams” program which partnered with Wyandotte High School and the Blue River Watershed Association (BRWA), involvement in Wyandotte County Conservation District’s annual S.O.I.L. education day for 5th graders, and the continued partnership with Operation Brightside, the BRWA, and MARC’s Water Quality Education Committee (WQEC). Public Service Announcements on SW issues has will be broadcast on UG television in 2016. More details can be found in Appendix A on these and other educational and public involvement efforts.
- Private Construction Site Erosion and Sediment Control Inspections. Public Works staff continues to improve its inspections program and permitting system, resulting in an improved erosion and sediment control program. The Planning and Urban Development Department continues to provide excellent review and oversight of developer and private owner stormwater plans (over 60 plans). Eighteen (18) land disturbance permits were issued during the year. Almost 314 inspections were conducted at construction sites, as well as 51 re-inspections, to ensure appropriate erosion and sediment control measures are properly installed, maintained and operating as designed. A new Erosion & Sediment Field Guide was completed in January 2014 by UG staff and made available to contractors,

consultants and property owners, as well as distributed at all pre-construction meetings held for infrastructure and development projects. UG inspectors also circulated this guide book at construction sites during their field inspections.

- Street Sweeping. Over the course of 12 months, the UG's Street Department swept over 10,342 lane miles, which resulted in over 9,759 cubic yards of material collected during these activities.
- Curb Inlet Inspection and Cleaning Program. The Sewer Maintenance Services evaluated and refocused its curb inlet inspection and cleaning program in 2015. The previous efforts were reactive and focused on those areas with the most problems or in response to complaint calls. An effort is underway to visit each and every inlet within the UG and gather information and determine the level of effort needed to conduct a more pro-active program. The program is utilizing tablets, GIS and Lucity to gather and track inspections, cleaning and information gained.
- Commitment of the Leadership. The Stormwater Executive Committee comprised of four individuals, conducted two (2) committee meetings in 2015 and provided direction and guidance to staff and to oversee the implementation of the various measures and activities of the stormwater management plan.

Areas for Improvement. Evaluating the areas in which improvements are identified allows the UG to address and improve upon those issues, and to develop the appropriate strategies to handle them in the future. Making the necessary changes and improvements will make the UG's program more effective, address water quality, and be beneficial to the citizens within the Unified Government. Several performance measures and BMPs in the SMP require annual evaluations to refine or improve the procedures and techniques employed to implement the program. The SMP required a complete review of almost all SOPs in Compliance Year 3, which was completed.

- Continue Task and Schedule Management. Based on the improvements in last year's effort to complete all the required tasks on time, the UG will continue to address the various tasks and time-sensitive requirements earlier in the year. A full accountability system was employed in 2015 to ensure activities were completed thoroughly and promptly.
- Erosion and Sediment Control. Erosion and sediment control at construction sites remains a broadly complex and challenging issue.
- Enhancing Customer Complaint Response System related to Illicit Discharges. The UG intends to identify any short comings in the current citizen call-in process and make the

necessary improvements to appropriately and effectively respond to calls from the public as well as other sources related to SW quality and IDDE program implementation.

- Impacting Public Awareness and Behavior. As mentioned in the 2013 Annual Report, the UG continues to make available educational materials and to offer SW-related announcements. However, strides can still be made to make the public aware of the importance of reducing stormwater pollution and the associated water quality issues. Fully engaging citizens in being a part of the solution to improve water quality in the local streams is a challenge. Public education and outreach efforts will continue. The UG has contracted Sheila Shockey Consulting Services to assist in efforts for 2016.
- Wet Weather Monitoring Program. Monitoring at specific sampling sites during storm events is required by the 2007 NPDES permit. In the 2013 Annual Report, it was reported that not all of the required samples have been consistently collected and analyzed at monitoring sites 006S1, 008S1, 005SG and 008SG due to a number of reasons. To address this situation, the UG notified the KDHE on April 24, 2014 of the sampling program issues and requested a meeting with KDHE representatives. The intent of the meeting was to work collaboratively with KDHE staff to develop a plan to ensure that the appropriate wet weather samples are being collected and analyzed.

The new Wet Weather Monitoring Program requirements in the new permit allow for more flexibility in the time frame that samples may be taken, locations where samples are taken, and methods (grab or composite) that will allow the UG to gather and test samples more consistently. The 2016 program will continue at the current locations where samples have been taken. The UG will be considering new locations in 2016 to replace sampling stations where the UG has not been able to gather samples and relocate to locations in the Little Turkey Creek and Brenner Heights Creek watersheds for TMDL compliance with the new permit.

3.0 OVERALL PROGRAM COMPLIANCE SUMMARY

The following table lists the specific Stormwater Management Plan requirements and performance measures, the compliance schedule, the responsible parties, the compliance activities undertaken during this compliance year (CY3), and the references or supporting data that has been included in Appendix A, B and C of this Annual Report.

3.0 Overall Stormwater Management Program Compliance Summary

Minimum Control Measure	BMP No.	Measurable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
1. Public Education and Outreach						
1.A - Gather and Distribute Printed Stormwater Educational Materials						
		1.A.1 - Purchase 5,000 copies of selected SW flyers	Public Works, Public Relations	CY 1-5	Over 5,000 flyers of various messages were collected and purchased for distribution.	Appendix A.1 (Public Education & Outreach Summary)
		1.A.2 - Place flyers in various public locations	Public Works	CY 1-5	Flyers were placed in 16 different locations throughout the community, including City Hall lobby, area libraries, community centers and at the Neighborhood Resource Center.	Appendix A.1 (Public Education & Outreach Summary)
		1.A.3 - Prepare bilingual insert for water bill	Public Works	CY 1-5	A bi-lingual Board of Public Utilities insert was created and covered the topic of cigarette littering. The flier also reference our webpage for more information.	Appendix A.1 (Public Education & Outreach Summary)
		1.A.4 - Distribute Insert with water bills	Public Works, BPU	CY 1-5	A breakdown of the 68,644 recipients from the June 2015 stormwater BPU flier included 59,059 residential customers; 8,236 commercial customers; 170 industrial customers; and 1,179 other customers such as schools, city, county, and wholesalers.	Appendix A.1 (Public Education & Outreach Summary)
		1.A.5 - Replenish flyers at targeted locations	Public Works	CY 1-5	Replenished flyers at all locations that were running low on fliers.	
1.B - Deliver Televised Programs/Announcements on Stormwater Management/Water Quality on UG's Cable Channel						
		1.B.1 - Research preparing or obtaining 3rd party license for a Public Service Announcement (PSA)	Public Works, Public Relations	CY 2	Staff researched, found and is working with Mid-America Regional Council (MARC) on stormwater-related PSAs available for use.	
		1.B.2 - Prepare or obtain 3rd Party Public Service Announcement	Public Works, Public Relations	CY 2	UG plans to utilize various PSAs available from MARC. The first two are entitled "If It's On the Ground, It's In the Water" and "Healthy Yards, Healthy Communities".	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		1.B.3 - Air PSA at least four times per year	Public Relations	CY 3	The PSA's were aired over 60 times on UG TV.	
		1.B.4 - Annually review PSA and modify as needed	Public Relations	CY 4-5	Each year following PSA	
1.C - Enhance Existing Website to Provide Information of Stormwater Issues						
		1.C.1 - Include copy of approved SWMP	Public Works, Technology	CY 1	Current EPA-approved SMP placed on website.	Appendix A.2 (Public Works SW Information Website)
		1.C.2 - Copy of Annual Report placed on website	Public Works, Technology	CY 2-5	FY2014 (CY2) Annual Report was placed on website.	Appendix A.2 (Public Works SW Information Website)
		1.C.3 - PSA placed on UG's website	Public Works, Technology	CY 2-5	PSA IS available for viewing on the UG's website.	
1.D - Contribute Financially to Local Agencies within Wyandotte County Who Promote SW Management Improvements						
		1.D.1 - Annual contribution to WCCD	Public Works	CY 1-5	Contributed \$42,771 to WCCD in January 2015. A summary of the WCCD storm-related activities can be found in Appendix A.	Appendix A.3 (WCCD Annual Report)
1.E - Contribute Financially to Regional Agencies Who Promote SW Education and Management Improvements						
		1.E.1 - Annual contribution to MARC	Public Works	CY 1-5	Remained a member in good standing throughout 2015 and an active participant in the quarterly Water Quality Education meetings. Dues paid to MARC for the committee were \$20,000. Served on the education and training sub-committees as well as helped to plan our two-day BMP certification training in November 2015.	Appendix A.4 (MARC Water Quality Education Annual Report)
1.F - Utilize Local Newsletters for Education of SW Related Issues						
		1.F.1 - Submit one article per year in Livable Neighborhoods newsletter.	Public Relations	CY 1-5	Sixteen (16) articles were included in the Livable Neighborhoods monthly newsletter and Sixteen (16) articles were utilized in the Livable Neighborhood E-Newsletter. Liveable Neighborhoods has over 5,000 people that receive the monthly and weekly newsletters.	Appendix A.5 (Local Newsletters Public Education Articles Summary)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		1.F.2 - Submit at least three (3) articles for publication in the UG's Weekly E-news	Public Relations	CY 1-5	Eighteen (18) articles were included in the UG's Weekly E-News newsletter that has a circulation of over 3,300 subscribers.	Appendix A.5 (Local Newsletters Public Education Articles Summary)
1.G - Annual Review of Media Used for Public Outreach						
		1.G.1 - Review annually of outlets used for public outreach efforts	Public Relations	CY 1-5	Approximately 27,000 website hits. Also reached public through the ENews newsletter, Facebook, Twitter, and Youtube. Weekly Enews has approximately 3,300 subscribers.	Appendix A.5 (Copy of survey used to evaluate outreach efforts)
2. Public Involvement and Participation						
2.A - Create a Stormwater Quality Education Grant Program						
		2.A.1 - Prepare criteria for a SW Quality education grant program	PW, PR, Procurement	CY 2	A new Stormwater Public Education Grant Program was developed, providing \$5,000 in grant assistance to qualified proposals.	Appendix A-7 (Stormwater Quality Education Grant Program)
		2.A.2 - Promote the grant program to local schools/non-profits via various media outlets	PW, PR, Procurement	CY 3	Grant Program and Application was sent out to the UG listserve, posted on the UG website, sent out in the E-weekly news, sent out to Liveable Neighborhoods Newsletter and listserve, emailed to USD 500, Piper, and Turner School Districts, and emailed to various non-for profits.	Appendix A-7 (Stormwater Quality Education Grant Program)
		2.A.3 - Provide copy of criteria and applications in Annual Report	PW, PR, Procurement	CY 2-5	Application Packet, Informational Flier, Approved applications, Evaluation Criteria & Score Sheet, and Final reports are included in Appendix A-7	Appendix A-7 (Stormwater Quality Education Grant Program)
2.B - Promote and Implement Community Cleanup Programs						
		2.B.1 - Partner with Operations Brightside and other neighborhood organizations to facilitate annual cleanups	Public Relations	CY 1-5	Thirty nine (39) cleanup activities occurred with over 1,138 volunteers contributing 3,521 hours of service time throughout the year via Operation Brightside activities.	Appendix A.6 (Operation Brightside & Blue River Watershed Assoc. Annual Reports)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
	2.C - Provide Assistance and Materials to Community Groups for participation in a Storm Drain Inlets Stenciling Program					
		2.C.1 - Advertise the availability of a Storm Drain Stewardship Brochure	Public Works	CY 1-5	Copy of the brochure, now entitled "If it's on the Ground, It's in the Stream", was made available on the UG's website and distributed to all the sites where other brochures were placed. A UG Inlet stenciling flier was distributed at neighborhood groups meetings and is on our webpage.	Appendix A.6 (Operation Brightside & Blue River Watershed Asssoc. Annual Reports)
		2.C.2 - Provide materials and areas for stenciling to participating groups.	Public Works	CY 1-5	Inlet markers and construction adhesive are available for volunteer groups to use.	Appendix A.6 (Operation Brightside & Blue River Watershed Asssoc. Annual Reports)
		2.C.3 - All storm drainage inlet castings manufactured w/ "Exists to River, Do Not Dump Waste"	Public Works	CY 1-5	All storm inlet castings are provided with the required statement.	A copy of the standard detail sheet for the castings was provided in the SMP.
	2.C.4 - Document the number and name of groups, the number of inlets stenciled and number of brochures distributed.	Public Works	CY 1-5	UG participated in a stenciling event at Douglas Elementary. Storm inlet markers were installed by student and adult volunteers. UG staff presented a program to students/public at neighborhood and school groups on Stormwater Pollutants and Single-Residential BMPs.	Appendix A.6 (Operation Brightside & Blue River Watershed Asssoc. Annual Reports)	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
3. Illicit Discharge Detection and Elimination Program						
3.A - Evaluate, and if Necessary, Update Ordinances that pertain to Illicit Discharges.						
		<i>3.A.1 - Prepare Memorandum regarding current ability of ordinances to perform IDDE inspections and take enforcement action.</i>	<i>Public Works, Legal</i>	<i>CY 1</i>	<i>Memorandum was prepared by Aqualaw on September 13, 2012 which identified the UG's legal authority and provided recommendations on new and enhanced authority. The UG's Legal Department also provided a memorandum dated December 13, 2013 which summarizes the UG's authority with respects to this program.</i>	
		<i>3.A.2 - Legal Authority contained in Chapter 30 of UG's current Municipal Code of Ordinances</i>	<i>Public Works, Legal</i>	<i>CY 1</i>	<i>Refer to 3.A.1 for action taken with regards to effectively prohibiting and requiring elimination of illicit discharges into the UG's storm sewer system.</i>	
3.B - Implement, & Revise if Needed, Standard Operating Procedures for Illicit Discharge Detection, Sampling, Tracking and Enforcement						
		<i>3.B.1 - Implement applicable existing Standard Operating Procedures (SOPs)</i>	<i>Public Works, WPC, Legal</i>	<i>CY 1-5</i>	<i>SOPs were developed and reviewed by EPA and KDHE in 2012.</i>	
		<i>3.B.2 - Review and update if appropriate, all IDDE Program SOPs</i>	<i>Public Works, WPC, Legal</i>	<i>CY 2</i>	<i>Related SOPs were reviewed for possible updating. No changes were made in CY2.</i>	
		<i>3.B.3 - Provide any updated SOPs in Annual Report</i>	<i>Public Works</i>	<i>CY 2-5</i>	<i>No updated SOPs are included in the CY3 report.</i>	
3.C - Design, Implement and Maintain IDDE Program Tracking System						
		<i>3.C.1 - Review maps and prepare list of major outfalls</i>	<i>Public Works, WPC</i>	<i>CY 1-5</i>	<i>For the MS4 area, a list of node numbers for all major outfalls that serve residential, commercial and industrial zones was created. List of node numbers was updated to reflect new information gathered as a result of map creation, assigning inspections and information gathered during inspections.</i>	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials	
		3.C.2 - Commence tracking of outfall inspections and dry weather sampling	Public Works, WPC	CY 2-5	252 outfalls were inspected in 2015 and recorded on Dry Weather Outfall inspection forms. A spreadsheet and GIS database contain all information gathered on each outfall.	Appendix B.2 (IDDE Program)	
		3.C.3 - Commence illicit discharge detection, tracking and enforcement activities	Public Works	CY 2-5	One suspect illicit discharge was detected from the 2015 outfall inspection work. Tracking of the suspect discharge was attempted. A sample was obtained and results indicated high levels of chloride due to recent weather related salting of nearby road but was otherwise found to be normal. No further action was required. Three (3) illicit discharges were reported, investigated and cleaned up in 2015. A Notice of Violation was issued to one. The violator complied and remedied the situation. No further enforcement was required. A summary of investigations and enforcement can be found in the appendix.	Appendix B.2 (IDDE Program)	
		3.C.4 - Amend current stormwater maps to distinguish major outfalls from other nodes/outfalls.	Public Works, WPC	CY 2-5	Evaluation of the existing UG SW maps and inventory was conducted based on outfall inspections. Updated information was provided for modification to existing GIS and tracking systems.		
	3.D - Provide Training for IDDE Inspection Staff						
			<i>3.D.1 - Conduct training session for key UG employees on identification of illicit discharges.</i>	<i>PW, WPC, Building Inspection</i>	<i>CY 1 and 4</i>	<i>Training was initially provided in CY1 and will be provided in CY4.</i>	
			3.D.2 - Provide in-house or commercial training for persons assigned to inspect, sample and track illicit discharges.	Public Works, WPC	CY 1-5	Training was provided to 4 UG employees from Public Works on October 7, 2015. Training was hosted by EPA Webcast Series, "Conducting Illicit Discharge Detection and Elimination Investigations"	Appendix B.3 (Overall MS4 Program Training Summary)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		3.D.3 - Provide copy of training materials and attendance sheet in Annual Report.	Public Works	CY 1-5	Training materials and sign-in sheet for all attendees were collected for each session.	Appendix B.3 (Overall MS4 Program Training Summary)
3.E - Perform Dry Weather Screening of Stormwater Outfalls						
		3.E.1 - Conduct at least 250 non-exclusive dry weather inspections per year of major outfalls.	Public Works, WPC	CY 2-5	252 outfalls were inspected in 2015.	Appendix B.2 (IDDE Program)
		3.E.2 - Evaluate the effectiveness of the outfall inspection program every 5th year.	Public Works	CY 5	<i>To be accomplished in CY 5.</i>	
		3.E.3 - Provide list of all inspected outfalls, illicit discharges detected, types of discharges, any eliminations, and enforcement action.	Public Works	CY 2-5	252 outfalls inspected, with one (1) suspect discharge identified. Attempts were made to trace the discharge to the source. A sample was obtained and lab results indicated high levels of chloride due to recent weather related salting of nearby road but was otherwise found to be normal. No further action was required.	Appendix B.2 (IDDE Program)
3.F - Implement Program to Televis and Inspect Illicit Discharges/Cross Connections in UG's Storm and Sanitary Sewer Systems						
		3.F.1 - Televis and review storm sewers CCTV information for illicit discharges and follow IDDE SOPs for any found illicit discharges.	Public Works, WPC	CY 2-5	Sewer Maintenance Department televised and reviewed over 36,659 feet of storm sewers. No illicit discharges were discovered.	Appendix B.4 (Sewer Maintenance CCTV Inspections Summary)
		3.F.2 - Televis 20,000 feet of sanitary sewers and review CCTV information for cross connections and follow IDDE SOPs for any found illicit discharges.	Public Works, WPC	CY 2-5	Sewer Maintenance Department televised and reviewed over 266,900 feet of sanitary sewers. No cross connections or illicit discharges were discovered.	Appendix B.4 (Sewer Maintenance CCTV Inspections Summary)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		3.F.3 - Review 20,000 feet per year of previously collected storm and sanitary sewer CCTV inspection videos to discover any illicit discharges/cross connections.	Public Works, WPC	CY 2-5	UG staff reviewed 20,280 L.F. of previously collected (Years 2010-2013) storm and sanitary sewer CCTV inspection video. One suspect illicit discharges was found and is being investigated. Two possible cross connections were discovered and reported to WPC for further investigation.	Appendix B.4 (Sewer Maintenance CCTV Inspections Summary)
3.G - Maintain a Current Storm Sewer Mapping System						
		3.G.1 - Convert all existing AutoCAD MS4 maps to a new GIS.	Water Pollution Control	CY 3	Completed in 2013	
		3.G.2 - Annually update GIS maps from record drawings.	Water Pollution Control	CY 3-5	This activity is ongoing by the Mapping Dept.	
3.H - Continue the UG's Existing Household Hazardous Waste Collection Program						
		3.H.1 - Coordinate seven (7) HHW collection days every year.	Public Works, WPC	CY 1-5	There were seven (7) HHW collection events open to the public between April and October 2015, resulting in over 57.5 tons of household hazardous waste collected. Additionally, 2 electronic recycling events were held, April 22 and November 14, 2015, dropping off 21 tons of electronics.	Appendix B.5 (Household Hazardous Waste Collection Information)
		3.H.2 - Estimate amount of material collected at each event and list in the Annual Report.	Public Works, WPC	CY 1-5	Information for each event was documented and is provided as part of this report. Over 57.5 tons of material was collected in 2015.	Appendix B.5 (Household Hazardous Waste Collection Information)
		3.H.3 - Continue program to collect and dispose of abandoned tires.	Public Works, WPC	CY 1-5	415 tires were collected in 2015 and documentation is provided as part of this report.	Appendix B.5 (Household Hazardous Waste Collection Information)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
4. Construction Site Stormwater Runoff Control						
4.A - Implement, & Revise if Needed, SOPs for SW Plan Review/Approval, Construction Site Inspections and Enforcement Activities						
	4.A.1 - Implement applicable SOPs.	Public Works, Urban Planning	CY 1-5	SOPS were distributed to the supervisors and their staff in each of the departments.		
	4.A.2 - Review and update, if appropriate, all Construction Site Program SOPs	Public Works, Urban Planning	CY 2	Related SOPs were reviewed for possible updating. No changes were made in CY2.		
	4.A.3 - Provide any updated SOPs in Annual Report	Public Works	CY 2-5	No updated SOPs are included in the CY3 report.		
4.B - Continue to Utilize Tracking System for SW Plan Review/Approval, Construction Site Inspections and Enforcement Activities						
	4.B.1 - Continue to use existing tracking system for all program activities.	Public Works, Urban Planning	CY 1-5	UG staff continues to use the existing tracking system for Land Disturbance permits and inspections. Implementation of the ACELLA Mobile Office (AMO) has been completed and this system is being used to track Inspections on all private development projects.	Appendix B.6 & B.7 (Stormwater Plan Review Summary/Land Disturbance Inspections Summary)	
	4.B.2 - Report on activities under this program.	Public Works	CY 1-5	Annual report includes summary of activities.	Appendix B.6 & B.7	
4.C - Provide Training to UG's Erosion & Sediment Control (E&SC) Inspection Staff						
	4.C.1 - Conduct training session for key UG employees on new E&SC standards every 2 years.	PW, Streets, Building Inspection	CY 1, 3 and 5	Erosion and Sediment Control training was conducted on October 28 & 29, 2015. There were 44 UG employees in attendance. The training was 3.5 hours and included both classroom and hands-on erosion control training.	Appendix B.3 (Overall MS4 Program Training Summary)	
	4.C.2 - Provide copy of training materials and attendance sheet in Annual Report.	Public Works	CY 1, 3 and 5	Training materials and sign-in sheet for all attendees were collected for each session.	Appendix B.3 (Overall MS4 Program Training Summary)	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
4.D - Develop Training Program For Local Contractors and Owners						
		<i>4.D.1 Sponsor a training session for local construction site owners, contractors and installers on proper BMP uses on construction sites every 2 years.</i>	<i>Public Works</i>	<i>CY 2 and 4</i>	<i>To be completed in 2017.</i>	
		<i>4.D.2 - Provide copy of training materials and attendance sheet in Annual Report.</i>	<i>Public Works</i>	<i>CY 2 and 4</i>	<i>To be completed in 2017.</i>	
4.E - Conduct Routine Construction Site Inspections						
		4.E.1 - Conduct E&SC inspections based on various factors and criteria.	Public Works	CY 1-5	UG staff continues to use the existing tracking system for Land Disturbance permits and inspections. Implementation of the ACELLA Mobile Office (AMO) has been completed and this system is being used to track Inspections on all private development projects.	Appendix B.7 (Land Disturbance Inspections Summary)
		4.E.2 - Conduct E&SC inspections within 5 working days of a complaint, whenever practical.	Public Works	CY 1-5	Whenever practical, site inspections were conducted within the stipulated time frame. In most instances, complaints were inspected within a 24 hour time period.	Appendix B.7 (Land Disturbance Inspections Summary)
		4.E.3 - Include summary of all inspection records in Annual Report.	Public Works	CY 1-5	The UG issued 18 Land Disturbance permits, and conducted 314 total inspections, 51 re-inspections and 51 final inspections.	Appendix B.7 (Land Disturbance Inspections Summary)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
5. Post-Construction Stormwater Management Program						
5.A - Maintain and Make Available Local Standards for Post-Construction Stormwater BMPs						
		5.A.1 - Adopt a set of local standards for post-construction SW management BMPs.	Public Works	CY 1-5	A copy of the most recent version of the APWA BMP Manual of Practice was reviewed and considered for adoption by the UG. The current version is available at the Public Works offices and a link is provided on the UG's website.	Appendix D (Reference only)
5.B - Implement, & Revise if Needed, SOPs for SW Plan Review/Approval, Post-Construction Site Inspections and Enforcement Activities						
		<i>5.B.2 - Review and update, if appropriate, all Post-construction Site Program SOPs</i>	<i>Public Works, Urban Planning</i>	<i>CY 2</i>	<i>Related SOPs were reviewed for possible updating. No changes were made in CY2.</i>	
		5.B.3 - Provide any updated SOPs in Annual Report	Public Works	CY 2-5	No updated SOPs are included in the CY3 report.	
5.C - Conduct BMP Site Inspections and Develop a Tracking System for Post-Construction Sites						
		5.C.1 - Create an inventory of all existing publicly and privately owned BMPs.	Public Works	CY 1-5	An inventory was created for privately owned BMPs.	Appendix B.8 (BMP Registries)
		5.C.2 - Update tracking system for inspection and compliance.	Public Works	CY 1	The tracking system was improved to track the types and quantity of BMPs on sites, owner and operator information and inspection and enforcement actions.	Appendix B.8 (BMPs Inspection & Enforcement Summary)
		5.C.3 - Conduct annual inspections of publicly owned BMPs	Public Works	CY 1-5	Inspections were conducted at four sites with UG owned BMPs.	Appendix B.8 (BMPs Inspection & Enforcement Summary)
		5.C.4 - Enforce annual operation & maintenance requirements for privately owned BMPs.	Public Works	CY 1-5	Thirteen(13) full inspections, and three (3) partial inspections were conducted. Non-compliance was found at the three (3) partial inspections and eight (8) full inspections. Letters were sent to all those inspected.	Appendix B.8 (BMPs Inspection & Enforcement Summary)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials	
		5.C.5 - Develop and implement tracking system to store BMPs inspection and enforcement activities.	Public Works	CY 3-5	The tracking system was improved to track the types and quantity of BMPs on sites, owner and operator information and inspection and enforcement actions.		
		5.C.6 - Provide BMP Inventory list, inspection and enforcement summary in Annual Report.	Public Works	CY 1-5	Included in Appendix of this Annual Report.	Appendix B.8 (BMPs Inspection & Enforcement Summary)	
	5.D - Provide Training to UG's Post-Construction BMPs Inspection Staff						
		5.D.1 - Conduct training session for key UG employees on new BMP standards.	PW, Streets, Building Inspection	CY 1-5	MARC hosted a training on "Installation and Maintenance of Stormwater Treatment Best Management Practices" on Nov. 12 & 13, 2016. 5 employees from the UG attended and received certification.	Appendix B.3 (Overall MS4 Program Training Summary)	
		5.D.2 - Provide copy of training materials and attendance sheet in Annual Report.	Public Works	CY 1-5	Training outline included in appendix B.3. Sign in sheet was not made available to the UG.	Appendix B.3 (Overall MS4 Program Training Summary)	
	5.E - Develop Training Program For Local Property Owners, Designers and Developers on BMPs regarding maintenance and inspections						
		<i>5.E.1 Sponsor a training session for architects/engineers/developers/contractors and owners of SW BMP sites every 2 years.</i>	<i>Public Works</i>	<i>CY 2 and 4</i>	<i>2016</i>		
		<i>5.E.2 - Provide copy of training materials and attendance sheet in Annual Report.</i>	<i>Public Works</i>	<i>CY 2 and 4</i>	<i>2016</i>		

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
6. Pollution Prevention/Good Housekeeping						
6.A - Implement, & Revise if Needed, SOPs for Application of Pesticides, Herbicides and Fertilizers on UG Property.						
		6.A.1 - Implement applicable SOPs.	Public Works, Parks & Rec.	CY 1-5	Related SOPs were reviewed for possible updating. No changes were required.	
		6.A.2 - Review and update, if appropriate, all PHF SOPs	Public Works, Parks & Rec.	CY 2	Related SOPs were reviewed for possible updating. No changes were required.	
		<i>6.A.3 - Review and modify lawn care maintenance specifications and contracts.</i>	<i>Public Works, Parks & Rec.</i>	<i>CY 2</i>	<i>The Parks and Rec dept. does not use contractors for PHF application.</i>	
		6.A.4 - Provide any updated SOPs, most recent PHF specifications, amounts applied, and list of certified contractors in Annual Report	Public Works, Parks & Rec.	CY 2-5	In 2015, UG applied 75 gallons of glyphosate and Fertilizer (14-20-14: 2000 lbs, 24-3-11: 500lbs, and 15-0-5: 2000lbs). The Parks and Rec dept. does not use contractors for PHF application.	Appendix B.9 (PHFs Quantities and Contractors)
6.B - Continue to Operate the UG's Existing Vehicle Washing Facility						
		6.B.1 - Continued use of existing washing facility in accordance with SOP.	Public Works	CY 1-5	A total of 23,540 vehicles were washed at the UG's 50th and State Ave. location. Procedures are located at the wash facility for all UG vehicles.	
6.C - Implement, & Revise if Needed, SOPs for Street Sweeping Activities.						
		<i>6.C.2 - Review SOP and tracking system, prepare memorandum on results of in-depth review.</i>	<i>Public Works</i>	<i>CY 2</i>	<i>Existing SOPs and tracking system were reviewed. No changes or modifications were made in CY2. A program evaluation memorandum was prepared and can be found in the 2014 Annual Report.</i>	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials	
		6.C.3 - Use existing transfer station for street sweeping materials.	Public Works	CY 1-5	The UG no longer uses 50th Street and State Ave as a transfer station for street sweepings. The current transfer station for street sweepings is located at 47th St and Orville Avenue.		
		6.C.4 - Provide list of monthly dates, route classifications and material collected in Annual Report.	Public Works	CY 1-5	Each annual report to KDHE has included a log of all street sweeping activities and material collected. In 2015, 10,342 lane miles were swept, collecting approximately 9,759 cubic yards of material and debris.	Appendix B.10 (Street Sweeping Log)	
		6.C.5 - Provide any updated SOP in Annual Report.	Public Works, Parks & Rec.	CY 2-5	No updated SOPs are included in the CY2 report.		
	6.D - Provide Training to UG Employees on Good Housekeeping Activities and Information on Reducing Pollutants to the MS4.						
		6.D.1 - Prepare and distribute SW Pollution Prevention materials to employees via emails/website.	Public Work, Human Resources	CY 1-5	Information sheet was placed on the UG's Facebook page, Twitter account and the Weekly E-newsletter. Additionally, it was sent via an email blast to employees, providing information on littering and links to references that can be accessed for more best management practices.	Appendix B.11 (Good Housekeeping Training Information)	
		6.D.2 - Provide copy of all educational materials in Annual Report.	Public Works	CY 1-5	A copy of the email blast and information sheet can be found in Appendix B.11.	Appendix B.11 (Good Housekeeping Training Information)	
	6.E - Continue Existing Curb Inlet Inspection and Cleaning Program.						
		6.E.1 - Perform 5,000 curb inlet inspections per year.	Public Works, WPC	CY 1-5	Water Pollution Control crews inspected 11,596 curb inlets and storm drainage structures in 2015.	Appendix B.12 (Curb Inlet Inspection and Cleaning Records)	
		6.E.2 - Continue to clean 3,000 curb inlets per year.	Public Works, WPC	CY 1-5	Water Pollution Control crews cleaned 3,337 curb inlets and storm drainage structures in 2015.	Appendix B.12 (Curb Inlet Inspection and Cleaning Records)	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		6.E.3 - Re-evaluate the effectiveness of current inspection and cleaning program.	Public Works, WPC	CY 3	The UG evaluated its current inspection and cleaning program and prepared a technical memorandum which is available upon request. Due to changes to the inspection and cleaning program the totals this year are less than previous year totals.	
		6.E.4 - Provide summary report in Annual Report.	Public Works, WPC	CY 1-5	Information is included in this Annual Report.	Appendix B.12 (Curb Inlet Inspection and Cleaning Records)
6.F - Implement, & Revise if Needed, Tracking System SOPs for Curb Inlet Inspection/Cleaning Activities.						
		6.F.1 - Implement existing SOPs.	Public Works, WPC	CY 1-5	Water Pollution Control crews continue to inspect and clean curb inlets annually.	Appendix B.12 (Curb Inlet Inspection and Cleaning Records)
		6.F.2 - Review, and update, existing tracking system, and incorporate into maintenance work order system.	Public Works, WPC	CY 2-3	The UG evaluated its current inspection and cleaning program and prepared a technical memorandum which is available upon request. The UG is using Lucity and tablets to enter and track data. They are also gathering lots of data and vetting which data is worth tracking. Existing SOPs were also reviewed, the revised SOP and be found in Appendix C.	Appendix C (Updated Standard Operating Procedures)
		6.F.3 - Review SOPs and prepare memorandum on results.	Public Works, WPC	CY 3	The UG evaluated its current inspection and cleaning program and prepared a technical memorandum which is available upon request. The UG is using Lucity and tablets to enter and track data. They are also gathering lots of data and vetting which data is worth tracking. Existing SOPs were also reviewed, the revised SOP and be found in Appendix C.	Appendix C (Updated Standard Operating Procedures)
		6.F.4 - Include latest SOPs in the Annual Report.	Public Works, WPC	CY 3	Existing SOPs were also reviewed, the revised SOP and be found in Appendix C.	Appendix C (Updated Standard Operating Procedures)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
6.G - Create UG-owned/operated or UG-operated Buildings and Facilities Inventory.						
		6.G.1 - Update existing UG-owned/operated or UG-operated bldgs/facilities inventory.	Public Works	CY 1-5	An updated list of those UG facilities that are believed to be regulated under the general permit, has been prepared and is included in the Annual Report.	Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)
		<i>6.G.2 - Verify those sites requiring State General Permit have one/review SWPPPs.</i>	<i>Public Works</i>	<i>CY-2</i>	<i>The initial list from CY2 was investigated and only two sites fit the criteria.</i>	
		6.G.3 - Take appropriate action if a UG site is not covered by current State permit.	Public Works	CY 3	The UG applied for an NOI from KDHE for the Fleet Maintenance Center a copy can be found in the Appendix B.13, and is preparing a SWPPP. The UG will file an NOI or NOEC for WWTP 20 in 2016.	Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)
		6.G.4 - Provide copy of inventory, notifications, and action taken at sites in Annual Report.	Public Works	CY 1-5		Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)
6.H - Monitor Good Housekeeping at Non-regulated UG Sites.						
		6.H.1 - Develop schedule to visit all non-regulated sites within 5 years.	Public Works	CY 2	The schedule can be found in Appendix B.13.	Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		6.H.2 - Commence visiting non-regulated sites and provide educational materials on good housekeeping practices.	Public Works	CY 3	The UG visited 92 facilities under the Water Pollution Control jurisdiction, these included lift stations, flood stations and WWTPs. Educational material were prepared and distributed to UG personel regarding pollution prevention and good housekeeping practices. The summary of visits and copies of the educational material can be found in Appendix B.13.	Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)
		6.H.3 - Provide copy of schedule and educational materials in Annual Report.	Public Works	CY 2-5	Information is included in this Annual Report.	Appendix B.13 (Inventory of UG-Owned/Operated and UG-Operated Facilities)
7. Industrial Activity Stormwater Runoff Management Program						
7.A - Develop SOPs for SW Plan Review/Approval, Industrial Site Inspections, Review of SW Control Measures, and Enforcement Activities.						
		7.A.1 - Create SOP for SW Plan Review/Approval by March 31, 2013.	Public Works, Planning	CY-1	SOP was prepared by the UG and submitted to KDHE and EPA for review on March 19, 2013.	Appendix C (Updated Standard Operating Procedures)
		7.A.2 - Create SOP for inspection of industrial sites by March 31, 2013.	Public Works	CY-1	SOP was prepared by the UG and submitted to KDHE and EPA for review on March 19, 2013.	Appendix C (Updated Standard Operating Procedures)
		7.A.3 - Create SOP for enforcement actions of violators by March 31, 2013.	Public Works, Legal	CY-1	SOP was prepared by the UG and submitted to KDHE and EPA for review on March 19, 2013.	Appendix C (Updated Standard Operating Procedures)
		7.A.4 - Include copy of SOPs in Annual Report.	Public Works	CY-1	SOPs were included in the CY1 Annual Report.	Appendix C (Updated Standard Operating Procedures)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
7.B - Create and Maintain Industrial Facilities Inventory.						
		7.B.1 - Annual update industrial facilities registry to include those industries defined in 40 CFR 122.26(b)(14).	Public Works	CY-1	A review of all industries operating within the MS4 was conducted, using the EPA Phase I regulations and the UG ordinances as a guide, to determine an updated registry of industries that fall within these requirements. The UG HHW facility was removed as no hazardous waste is stored on the site. PPT provided a copy of an authorized "No Exposure" Certification from KDHE and was removed from the list as well. No new industries were added as a result of the annual review.	Appendix B.14 (Industrial Activities SW Management Program)
		7.B.2 - Provide list in the Annual Report.	Public Works	CY 1-5	Updated list is include in this Annual Report.	Appendix B.14 (Industrial Activities SW Management Program)
7.C - Implement an Industrial Facility Inspection Program.						
		7.C.1 - Inspect 25% of industries on registry.	Public Works	CY 2-5	Fuchs Lubricants and Nexeo were scheduled to be inspected in 2015. Nexeo applied for an received an NOEC from KDHE. Barton Solvents was inspected in its place.	
		7.C.2 - Train all UG personnel who will be conducting inspections.	Public Works	CY 1-2	Training was provided to UG personnel during the IDDE Training session.	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		7.C.3 - Include a summary of inspection conducted in the Annual Report.	Public Works	CY 2-5	Fuchs Lubricants, Nexeo were scheduled to be inspected in 2015. Fuchs was inspected and a letter was written with recommendations to reduce exposure of pollutants to the MS4. The UG is awaiting a response. Nexeo filed and received an NOEC and was removed from the UG registry. Barton Solvents was inspected in place of Nexeo. Barton applied for and received a KDHE NPDES permit and prepared a SWPPP after initial contact. The UG inspected and offered suggestions on improving their SWPPP in person and in a letter.	
7.D - Adopt Legal Authority for Inspection of Industrial Facilities, Review of Onsite Control Measures, and Enforcement.						
		7.D.1 - Review current Code of Ordinances and adopt any ordinance authorizing this program.	Public Works, Legal	CY 2	An ordinance for this program was considered and adopted by the City Council on May 1, 2014, and is now included in the UG's Code of Ordinances.	
		7.D.2 - Include copy of review results and ordinance activities in the Annual Report.	Public Works, Legal	CY 2	A copy of Ordinance Section 30-132 can be found in Appendix B of 2014 Annual Report.	
8. Total Maximum Daily Load Regulated Pollutants and Principal Pollutants of Concern						
8.A - Develop and Implement BMPS to Reduce TMDL Regulated Pollutants from Entering the Kansas River.						
		8.A.1 - Implement BMPS by distributing pet waste brochures, regulating septic systems, and focus IDDE inspection program within Kansas River basin.	Public Works, Public Relations	CY 1-5	Over 200 pet waste brochures and doggie bag holders were handed out. The Health Dept. continued to monitor and address septic system issues (47 failure notices sent, 47 permits issued due to notices). Some of the IDDE outfall inspections in 2015 were conducted in several watersheds tributary to the Kansas River. 5 Pet waste stations were installed at UG parks and approximately 2,500 bags were used.	Appendix B.15 (TMDLs Activities and BMPS Summary), Appendix B.2 (IDDE Program)

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
		8.A.2 - Include all reports and activities in the Annual Report.	Public Works	CY 1-5	Information is included in this Annual Report.	Appendix B.15 (TMDLs Activities and BMPs Summary)
8.B - Undertake Activities to Reduce Stormwater Impacts on Wyandotte County Lake.						
		<i>8.B.1 - Develop baseline report of existing conditions surrounding the lake.</i>	Public Works, WPC	CY 1	<i>Land use, available data and the KBS 2010 bathymetric survey were used to develop a baseline report of the existing lake conditions.</i>	<i>Appendix B.16 (Wyandotte County Lake Monitoring)</i>
		8.B.2 - Gather and analyze lake samples taken four times per year.	Public Works, WPC	CY 1-5	In 2015 the UG began collecting samples at each location during dry weather to supplement the wet weather sampling program. Samples were collected during four rain events and twice for dry weather and analyzed by WPC laboratory and the results have been recorded for TP, TSS, TN, TKN, nitrates/nitrites, NH3, BOD and pH.	Appendix B.16 (Wyandotte County Lake Monitoring)
		8.B.3 - Place high priority to sites surrounding the lake when enforcing E&SC elements.	Public Works, WPC	CY 1-5	Refer to the activities under BMP No. 4.	Appendix B.16 (Wyandotte County Lake Monitoring)
		<i>8.B.4 - Conduct a follow-up bathymetric survey of lake.</i>	Public Works, WPC	CY 5	<i>To be conducted in CY-5.</i>	
		8.B.5 - Take three Secchi Disk depth readings in lake one week before Memorial Day, Independence Day and Labor Day.	Public Works, WPC	CY 1-5	Three sets of depth readings were collected in six (6) specific locations in the lake.	Appendix B.16 (Wyandotte County Lake Monitoring)
9. Wet Weather Monitoring Program						
9.A. Implement SOPs to address monitoring of POCCs and other Water Quality Parameters						
		9.A.1 - Implement existing wet weather monitoring SOPs.	Public Works, WPC	CY 1-5	This has been an on-going activity since the initial permit.	

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials	
		9.A.2 - Review and update, if needed, any SOPs.	Public Works, WPC	CY 2	Related SOPs were reviewed for possible updating. No changes were made in CY2.		
		9.A.3 - Provide copy of updated Monitoring Plan and data analysis procedures in the Annual Report	Public Works, WPC	CY 1-5	Updates will be provided in the CY they are made.		
	9.B - Develop Tracking System for Wet Weather Monitoring Activities						
		9.B.1 - Develop spreadsheet to track the water quality results	Public Works, WPC	CY 1	Spreadsheet has been developed and used for recording sampling results and locations.		
	9.C - Conduct Water Quality Analyses of SW Discharges to Assess Effectiveness of Implemented BMPs.						
		9.C.1 - Prepare Memorandum on analyses results.	Public Works	CY 1-5	The WPC staff provided the results from several samples taken and analyzed for several parameters during the year for several wet weather events.	Appendix B.17 (Stormwater Monitoring and Trend Analysis Results)	
		9.C.2 - Provide copy of data analysis in the Annual Report.	Public Works	CY 1-5	Updated data analysis is included with this report.	Appendix B.17 (Stormwater Monitoring and Trend Analysis Results)	
	10. Stormwater Management Program						
	10.A - Hire a Stormwater Coordinator						
		10.A.1 - Create a new position of SW Coordinator.	Public Works, Human resources	CY 1	The UG reorganized and changed some of the existing responsibilities for a number of positions. An existing position now serves as the SW Coordinator and is in charge of the SW management program.		
	10.A.2 - Fill the SW Coordinator position.	Public Works	CY 1	Position has been filled by current staff member.			

Minimum Control Measure	BMP No.	Measureable Goal	Responsible Department	Compliance Schedule	Description of Compliance Activities	Data/Reference Materials
10.B - Create SW Executive Committee to Provide Administrative Oversight, Coordination and Direction.						
		10.B.1 - Form SW Executive Committee and conduct meeting.	Public Works	CY 1-5	The Executive Committee met on July 7 and December 16, 2015 to discuss program progress/successes and provided guidance to the UG SW team.	
		10.B.2 - SW Executive Committee to consider formation of other committees as needed.	Public Works	CY 1-5	The Executive Committee elected not to form any additional committees at this time.	
		10.B.3 - Prepare Executive Committee meeting minutes.	Public Works	CY 1-5	Minutes were prepared and available upon request.	
10.C - Conduct an Annual Financial Analysis of the SW Program.						
		10.C.1 - Conduct an annual analysis of the program's funding and expenses.	Public Works	CY 2-5	UG staff reviewed current fiscal budget for 2014 and determined adequate funds are budgeted for MS4 compliance activities.	
		10.C.2 - Include a copy of the financial analysis in the Annual Report.	Public Works	CY 2-5	Information is included in this Annual Report.	Appendix B.18 (MS4 Program Management)

4.0 COMPLIANCE YEAR 4 (2016) ACTIVITIES

The UG's current permit requires that, as a part of each Annual Report, a summary of the stormwater activities UG will be undertaking during the next reporting cycle, including an implementation schedule, be provided. Starting January 1, 2016, the UG will continue to implement several of the BMPs as well as developing and undertaking some of the new tasks identified in the revised SMP. Some of the key activities are listed below.

- 2016 Annual or Continuous Tasks
 - *Public Education and Outreach* – Continue to distribute stormwater-related educational materials, make announcements on SW issues, contribute funding for SW activities conducted by the Mid-America Regional Council and the Wyandotte County Conservation District, and review public outreach efforts.
 - *Public Involvement and Participation* – Continue with neighborhood cleanup events and stormwater inlet stenciling programs with the volunteer groups.
 - *Illicit Discharge Detection and Elimination* – Continue with inspections of major outfalls in the MS4 service area, provide outfall inspection training for IDDE inspectors, continue to hold Household Hazardous Waste Collection events and collect and dispose of abandoned tires. Continue to review closed-circuit television tapes produced from storm and sanitary sewer inspections to search for possible cross connections or illicit discharges.
 - *Construction Site SW Runoff Control* – Continue to inspect, track and enforce, as appropriate, erosion and sediment control requirements for all land disturbance sites that meet the minimum disturbance threshold described in the Stormwater Management Plan.
 - *Post-Construction SW Management Program* – Continue to update the public and private BMP sites inventory list, as needed, and inspect, track and enforce, as appropriate, operation and maintenance requirements for publicly and privately owned BMPs.
 - *Pollution Prevention/Good Housekeeping* – Implement current SOPs for curb inlet inspection and cleaning, application of pesticides, herbicides and fertilizer, and vehicle washing.
 - *Industrial Activity SW Runoff Management* – Review and update the industry registry, as needed, and conduct inspections of two (2) industries listed on the registry with monitoring of identified parameters
 - *TMDLs and PPOC Discharge Reduction* – Continue to implement the BMPs identified for the Kansas River watershed and conduct depth readings, water sampling, and analysis in Wyandotte County Lake.

- *Wet Weather Monitoring* – Conduct water quality analyses of SW samples taken during wet weather events.

- 2016 Discrete or Initial Commencement Tasks
 - *Public Education and Outreach* – Televis, and make available on the UG’s website, selected public service announcements on stormwater issues.
 - *Public Involvement and Participation* – Implement the SW Quality Education Grant Program.
 - *Illicit Discharge Detection and Elimination* – Review and improve, if necessary, the UG’s current citizen complaint response system. Begin updating GIS maps with record drawings made available to Water Pollution Control.
 - *Construction Site SW Runoff Control* – Review and revise program SOPs, if necessary, and provide internal training to the UG inspectors on E&SC measures. Sponsor a training session for local construction site owners, contractors, and installers on proper BMP uses on construction sites.
 - *Post-Construction SW Management Program* – Review and revise program SOPs, if necessary, and design new BMP tracking system.
 - *Pollution Prevention/Good Housekeeping* – Review and revise street sweeping and curb inlet inspection/cleaning SOPs, if necessary. Visit all regulated sites and obtain any necessary permits/certificates. Visit and meet with staff at non-regulated UG Owned/Operated facilities.
 - *Industrial Activity SW Runoff Management* –Begin monitoring industrial discharges by gathering at least one sample during a storm event at two (2) facilities scheduled for inspection in 2016 on the UG industrial Registry.
 - *TMDL* – Begin assessing and addressing TMDL requirements that go into effect in 2017. Create new measureable goals and BMPs for a revised SMP that addresses the TMDL section in the new permit.
 - *Wet Weather Monitoring Program* – Assess current locations of monitoring stations and relocate as necessary to comply with new permit requirements.

APPENDIX A – PUBLIC EDUCATION AND PARTICIPATION MATERIALS

APPENDIX A.1 Public Education & Outreach Summary

Appendix A.1 - Public Education & Outreach Summary

In an effort to educate the public about stormwater issues, numerous brochures that had been produced through the Mid-America Regional Council were obtained and distributed to the community in Compliance Year 3 (2015). Copies of these fliers are included in this section. The fliers included: *If it's on the Ground, It's in our Water, Disconnect or Redirect Your Downspout (English and Spanish), Know Your Watershed (English and Spanish), Conserve Water with Rain Barrels, Protect Your Streams, Pet Waste, Know Your Soil, Cigarette Butt and Cigar Tip Littering and Know Your Roots.*

A summary of the locations is as follows:

1. Liveable Neighborhoods/NRC
2. KCK Public Libraries
3. Argentine Community Center
4. Eisenhower Community Center
5. Bethany Community Center
6. Pat Halon Center
7. Kensington Community Center
8. JFK Community Center
9. Armourdale Community Center
10. Parks & Recreation Admin. Office

City-wide Informational Flier in Board of Public Utilities Billing Statement

In June 2015, a stormwater informational brochure was mailed out to all utility customers of the Board of Public Utilities. The flier identifies common items that end up in stormwater runoff and gives suggestions on what individuals can do to reduce this pollution. The flier was prepared with language in English on one side and Spanish on the other side. The flier also referred people to the UG webpage for more information. A copy of the flier is included.

A breakdown of the 68,644 recipients receiving the June 2015 Stormwater BPU flier included:

- 59,059 residential customers
- 8,236 commercial customers;
- 170 industrial customers
- 1,179 other customers, such as schools, city, county, and wholesalers.

Rain, roofs and runoff

Did you know that each downspout on a house can drain approximately 12 gallons of water per minute during a one-inch rainfall? If managed properly, the water that flows off rooftops can help keep lawns and gardens green while lowering utility bills during spring and summer months. However, most downspouts send rainwater down driveways, sidewalks, and underground pipes that lead to storm drains or sanitary sewer lines. This "**stormwater runoff**" picks up pollutants from motor oil, lawn chemicals, and pet waste along the way, before entering lakes and streams — **untreated**.

The large amount of untreated water entering the storm sewer system — and eventually our streams and lakes — has lasting health, safety, environmental and economic impacts on communities. Fortunately, there are many things that property owners can do to put rainwater to good use while reducing the amount of stormwater runoff that ends up in local waterways.

For more information, visit
www.marc.org/water

The problem with pavement

During the construction of homes, roads and office buildings vegetation is often removed and replaced by large paved areas. These surfaces keep rain from infiltrating the soil and recharging groundwater supplies. The infiltration process helps clean water and feed the underground springs that supply drinking water. Paved surfaces also increase the speed and amount of water that rushes into streams, causing stream bank erosion and harming wildlife habitats. Direct the flow of water from downspouts away from paved surfaces whenever possible.

Combined sewer overflows

Combined sewers are older systems that carry both stormwater and wastewater to treatment plants. When rainstorms fill combined sewers beyond capacity, the result is a Combined Sewer Overflow — a discharge of untreated wastewater and stormwater into local waterways. Combined sewers are costly to replace and still used in older areas of the region. Residents are encouraged to disconnect downspouts from sewer pipes or redirect downspouts to grassy areas or gardens to reduce the rain that enters sewers.

Disconnect or Redirect Your Downspout



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www.marc.org/water

Lluvia, techos y escurrimiento

¿Sabía usted que cada canalón de una casa puede drenar aproximadamente 12 galones de agua por minuto durante una precipitación de una pulgada? Si se maneja de la manera adecuada, el agua que fluye de los techos puede ayudar a mantener verdes el césped y los jardines y a la vez reducir las cuentas de servicios públicos durante los meses de primavera y verano. Sin embargo, la mayoría de los canalones envían el agua de lluvia por las calles, las aceras y los caños subterráneos que conducen a desagües de aguas pluviales y tubos de alcantarillado. Este "escurrimiento de aguas pluviales" recoge contaminantes del aceite de vehículos, químicos del césped y desechos de plagas a su paso, antes de ingresar a los lagos y arroyos sin tratamiento.

La gran cantidad de agua sin tratar que ingresa en el sistema de alcantarillas pluviales y, en última instancia, en nuestros arroyos y lagos, genera un impacto ambiental, económico, a la salud y a la seguridad que perdurará por mucho tiempo en las comunidades. Afortunadamente, hay muchas cosas que los propietarios de viviendas pueden hacer para aprovechar el agua de lluvia y a la vez reducir la cantidad de escurrimiento de aguas pluviales que acaban en las vías fluviales locales.

Si desea obtener más información, visite www.marc.org/Environment/Water

El problema del pavimento

Durante la construcción de casas, caminos y edificios de oficinas, la vegetación generalmente se retira y es reemplazada por grandes áreas pavimentadas. Estas superficies impiden que la lluvia infiltre el suelo y, a la vez, impide la recarga de los suministros del agua subterránea. El proceso de infiltración ayuda a limpiar el agua y a alimentar los manantiales que suministran agua potable. Las superficies pavimentadas también aumentan la velocidad y la cantidad de agua que fluye a los arroyos, lo que produce la erosión de las orillas de los arroyos y daña los hábitats de vida salvaje. Cuando sea posible, dirija el flujo de agua de los canalones lejos de las superficies pavimentadas.

Desbordes de alcantarillas combinadas

Las alcantarillas combinadas son sistemas muy antiguos que transportan aguas pluviales y residuales a las plantas de tratamiento. Cuando el agua de lluvia llena las alcantarillas combinadas sobrepasando su capacidad, el resultado es el desborde de la alcantarilla combinada: una descarga de aguas residuales y pluviales sin tratamiento a las vías fluviales locales. Reemplazar las alcantarillas resulta bastante costoso y todavía se utilizan en áreas antiguas de la región. Se recomienda a los residentes que desconecten los canalones de los tubos de alcantarillado o que redirijan los canalones a zonas con césped o jardines para reducir la lluvia que ingresa a las alcantarillas.

Desconecte o redirija su canalón



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www.marc.org/Environment/Water

What is a watershed?

A watershed is an area of land that drains to a common body of water, such as a nearby creek, stream, river or lake. Watersheds vary considerably in size. For example, when it rains, all the water from a small watershed may travel to a local creek. That creek will flow into a larger stream, like Brush Creek, which in turn collects water from an even larger watershed. Brush Creek flows into the Blue River, which then deposits water into the Missouri River. **We all live in a watershed.**

We all live downstream

Watersheds cross city, county and state lines. When different communities share a watershed, the residents of all the cities and counties in the watershed need to address issues like flooding and water quality together. Local watershed decisions impact our upstream and downstream neighbors.

What's the problem?

During the construction of homes, roads and office buildings, vegetation is often removed and replaced by large paved areas. These **impervious surfaces** keep rain from seeping into the soil and recharging groundwater supplies. Paved surfaces also increase the speed and amount of water that rushes down gutters and into storm drains during a rain storm. This "**stormwater runoff**" picks up pollutants from motor oil, lawn chemicals, pet waste, salt, litter and soil along the way, before flowing to rivers, lakes and streams — **untreated.**

The large amount of untreated water entering the storm sewer system — and eventually our streams and lakes — has lasting health, safety, environmental and economic impacts on our watersheds and communities.

Watersheds support a wide variety of plants and wildlife and provide outdoor recreation opportunities for residents. Protecting the health of our watersheds preserves and enhances the quality of life for Kansas City residents and those living downstream.

For more information, visit
www.marc.org/water

Know Your Watershed

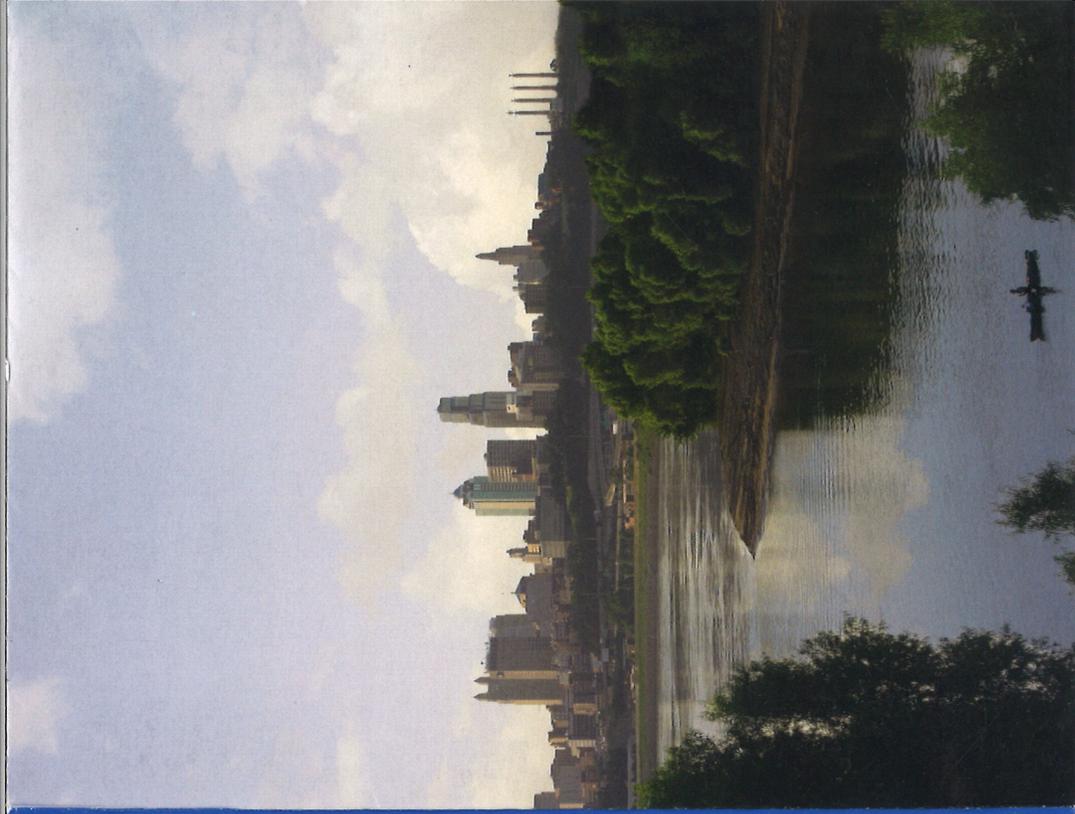


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On the cover: A view of downtown Kansas City, Mo., from Kaw Point — the confluence of the Kansas and Missouri rivers — in Kansas City, Kan.



¿Qué es una cuenca hidrográfica?

Una cuenca hidrográfica es un área de terreno que drena agua en una masa de agua, como un riachuelo, arroyo, río o lago cercano. Las cuencas hidrográficas tienen distintos tamaños. Por ejemplo, cuando llueve, toda el agua de una cuenca pequeña puede circular hasta un riachuelo local. Este riachuelo desembocará en un arroyo más grande, como Brush Creek, que a su vez recoge el agua de una cuenca de mayor tamaño. Brush Creek desemboca en Blue River, que lleva el agua hasta el río Missouri. Todos vivimos en una cuenca hidrográfica.

Todos vivimos aguas abajo

Las cuencas hidrográficas cruzan ciudades, condados y líneas de estados. Cuando distintas comunidades comparten una cuenca, los residentes de todas las ciudades y condados de la cuenca necesitan solucionar juntos problemas tales como inundaciones y calidad del agua. Las decisiones sobre las cuencas hidrográficas locales afectan a nuestros vecinos que viven aguas arriba y también a los que están aguas abajo.

¿Cuál es el problema?

Durante la construcción de viviendas, calles y edificios de oficinas, a menudo la vegetación se elimina y reemplaza con grandes áreas asfaltadas. Estas superficies impermeables impiden que el agua de lluvia penetre en el suelo y recargue los suministros de agua subterránea. Las superficies asfaltadas también aumentan la velocidad y la cantidad de agua que circula por los canales y los desagües pluviales durante una tormenta. A su paso, este "agua de escurrimiento" recoge contaminantes, como aceite de motor, sustancias químicas para el césped, desechos de mascotas, sales, basura y tierra antes de llegar a ríos, lago y arroyos—sin recibir tratamiento.

La gran cantidad de agua sin tratar que ingresa en el sistema de alcantarillas pluviales — y, en última instancia, en nuestros arroyos y lagos — genera un impacto ambiental, económico, a la salud y a la seguridad que perdurará por mucho tiempo en nuestras cuencas y en nuestras comunidades.

Las cuencas hidrográficas albergan una gran variedad de plantas y animales, y brindan oportunidades de esparcimiento al aire libre para los residentes. La protección de la salud de nuestras cuencas hidrográficas preserva y mejora la calidad de vida de los residentes del área de Kansas City y de aquéllos que viven aguas abajo.

Conozca su cuenca hidrográfica



**Agua limpia.
Vida sana.**

**Si desea obtener más información, visite
www.marc.org/Environment/Water**

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www.marc.org/water

En la portada: Vista del centro urbano de Kansas City, Mo., desde Kaw Point — confluencia de los ríos Kansas y Missouri — en Kansas City, Kan.



IF IT'S ON THE
GROUND

IT'S IN OUR
WATER

STORMWATER AND REGIONAL WATER QUALITY



Clean Water. Healthy Life.

Mid-America Regional Council Regional Water Quality Education Program

Did you know that your everyday habits impact our water quality? Even small amounts of pollution can add up to big problems when it comes from an area the size of the Kansas City region. Leaving harmful materials on yards and streets can pose dangers to the health and safety of our neighborhoods and the environment. REMEMBER:

IF IT'S ON THE
GROUND
IT'S IN OUR
WATER



When it rains, water runs across rooftops, down streets and across parking lots and yards, picking up substances along the way.

USE A RAIN BARREL

Collect and store rainwater from downspouts and rooftops for future use watering lawns and gardens. Rain barrels can help decrease the amount of stormwater runoff that leaves your property.



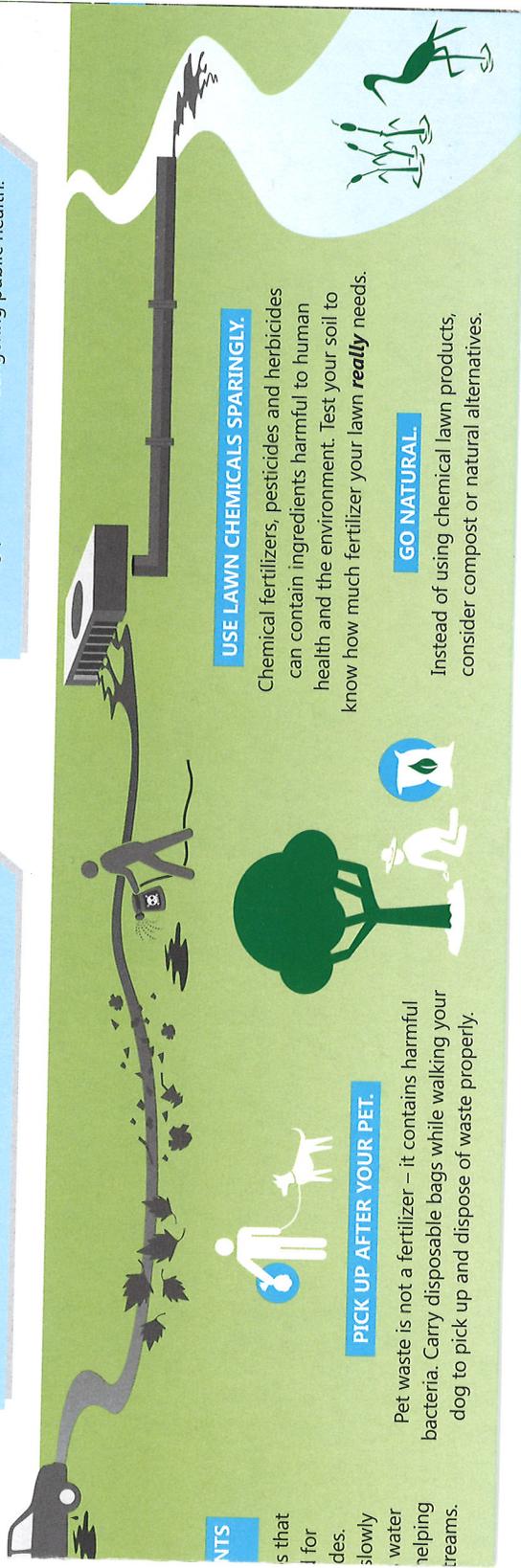
LANDSCAPE WITH NATIVE PLANTS AND RAIN GARDENS.

Native plants have natural properties often eliminate or reduce the need for mowing, fertilizing or using pesticides. Rain gardens catch stormwater and filter it into the ground, meaning less runoff into our storm sewers, preventing flooding and erosion in our neighborhoods.



This stormwater "runoff" often contains materials like chemical fertilizer, pet waste, litter, automotive fluids and yard waste such as leaves and grass clippings.

Runoff then washes down storm drains and is eventually deposited into local rivers and streams, causing pollution and endangering public health.



ANTS
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helping
streams.

PICK UP AFTER YOUR PET.

Pet waste is not a fertilizer – it contains harmful bacteria. Carry disposable bags while walking your dog to pick up and dispose of waste properly.

USE LAWN CHEMICALS SPARINGLY.

Chemical fertilizers, pesticides and herbicides can contain ingredients harmful to human health and the environment. Test your soil to know how much fertilizer your lawn *really* needs.

GO NATURAL.

Instead of using chemical lawn products, consider compost or natural alternatives.



GOES IN
HERE

ENDS UP
HERE

STORM DRAINS are metal grates found on neighborhood streets, often at corners and on the sides of curbs and gutters. They help prevent flooding by draining rainwater and melted snow off streets and other paved surfaces.

ONLY RAIN SHOULD GO DOWN STORM DRAINS! YOU can help keep our community's water clean and healthy! By keeping waste and hazardous materials out of storm drains, you're doing your part to reduce flooding and pollution in our local waterways.

Find more ways to help protect our water at
MARC.ORG

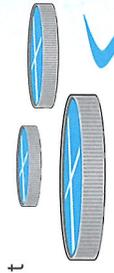
KNOW WHERE WATER FLOWS



The water that goes down a sink or toilet in your home or business flows through a **SEWER SYSTEM** to a wastewater treatment plant where it is treated and cleaned.



Water that flows down a driveway or street and into a gutter enters a **STORM DRAIN** that deposits it directly in lakes, rivers and streams...*untreated*.



PICK UP AFTER YOUR PET



Pet Waste Affects Water Quality

Every time it rains, thousands of pounds of pet waste wash down storm drains and into streams, rivers and lakes. If not disposed of properly, pet waste flows directly into nearby streams and creeks without being treated at wastewater treatment facilities.



Clean Water. Healthy Life.

What's the Problem?

A recent U.S. Geological Survey study of streams and creeks in the Kansas City region showed that bacteria associated with pet waste is the source of approximately 25% of the bacteria in samples collected from local waterways.

When pet waste is disposed of improperly, water quality isn't the only thing that suffers — your health may be at risk, too.

Adults working in their gardens, children playing outside and family pets are the most at risk for infection from some of the bacteria and parasites found in pet waste.

What Can You Do?

- Pick up pet waste from your yard. It is not a fertilizer.
- Carry disposable bags while walking your dog to pick up and dispose of waste properly. When you dispose of pet waste in the trash, wrap it carefully to avoid spilling during collection.
- Bury pet waste in your yard, at least 12 inches deep and cover with at least eight inches of soil to let it decompose slowly. Bury the waste in several different locations and keep it away from vegetable gardens.
- Contact your local parks department to inquire about providing pet waste stations in area parks, along trails and in public places where people frequently walk their dogs.



Regional Water Quality
Education Program

For more information, visit
www.marc.org/water
or call 816/474-4240



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What is a rain barrel?

A rain barrel is a container that collects and stores rainwater from downspouts and rooftops for future use watering lawns and gardens. Generally a rain barrel is made using a 55-gallon drum, a vinyl garden hose, PVC couplings, a screen grate to remove debris and keep insects out, and other materials found at most hardware stores.

Rain barrels can be constructed in a number of ways, but they all serve the same purpose — to collect rainwater and decrease the amount of stormwater runoff that leaves your property. Using rain barrels is one way to decrease your household's impact on local waterways and to become a good steward of the local watershed.

Why use rain barrels?

They redirect water from your roof to your lawn or garden

The average rainfall of one inch within a 24-hour period can produce more than 700 gallons of water that runs off the roof of a typical house. Much of this water runs from gutters onto surfaces that do not allow water to soak into the ground. These are called **impervious surfaces** and include concrete, asphalt, and compacted soil. Even commonly used sod has a very low infiltration rate and can be a major cause of increased runoff.

As it flows, runoff collects and transports soil, pet waste, salt, pesticides, fertilizer, oil and grease, litter and other pollutants. This water drains directly into nearby creeks, streams and rivers, without receiving treatment at sewage plants.

Polluted stormwater contaminates local waterways. It can harm plants, fish and wildlife, while degrading the quality of water.

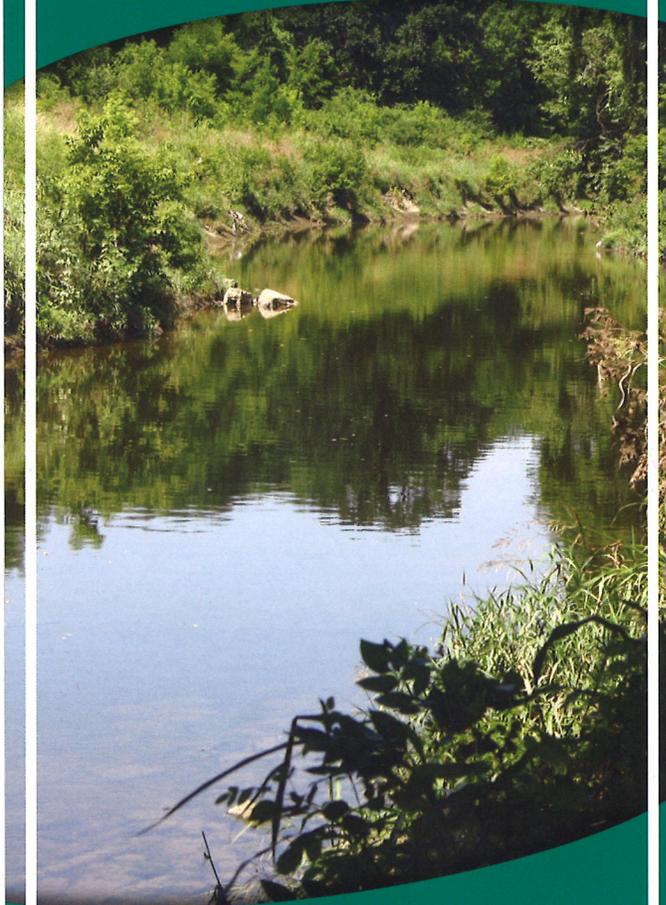
Conserve Water with Rain Barrels



Clean Water. Healthy Life.
Regional Water Quality Education Program

For more information, visit
www.marc.org/Environment/Water

PROTECT OUR STREAMS



Healthy Streams, Healthy Region

Streams are among the most important natural resources in the Kansas City region, contributing to the overall quality of life in our communities.

Stream corridors provide vital habitat networks for wildlife and help filter out pollutants from our waterways.



Clean Water. Healthy Life.

What's the Problem?

Many property owners may not realize that what they do on their land impacts neighborhoods, stream habitats and water quality downstream. The condition of land surrounding streams directly affects property values, the health of the stream and the well-being and safety of the public.

What Can You Do?

- **DON'T MOW TO EDGES.** Mowing close to a stream's edge damages roots that hold soil in place, causing stream banks to erode and contributing to loss of natural habitats. Avoid mowing within 10 to 25 feet from the edge of a stream.
- **FERTILIZE LESS.** When the organic nutrients in fertilizers enter the stream cycle, they degrade water quality. Test your soil for healthy levels of nutrients on a regular basis.
- **LANDSCAPE WITH NATIVE PLANTS.** Check with your local nursery for plants that have deep roots and are naturally adapted to the climate and soil. Their natural properties eliminate or reduce the need for mowing, watering, fertilizers or pesticides.
- **DON'T DUMP WASTE.** Trash and litter on stream banks is unsightly, unsanitary and unsafe for humans and wildlife. Proper containment and disposal of organic trash and yard waste is also critical to maintaining clean streams. These materials decompose when they enter the stream cycle, releasing foul odors and leading to poor water quality.



Regional Water Quality
Education Program

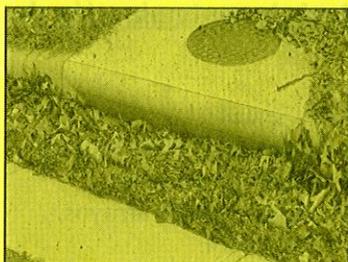
For more information, visit
www.marc.org/water
or call 816/474-4240



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Your Lawn Care Impacts Stormwater Runoff



Most rain seeps into the soil. Some rain flows into the street and into storm drains. The storm drain pictured to the left is clogged with leaves which increases the risk of flooding by not allowing the water to get into the outlet.

Stormwater runoff carries leaves, grass clippings, soil, pet waste, pesticides, fertilizers, oil, and litter into storm drains and it flows directly into local streams, rivers, and lakes without treatment.

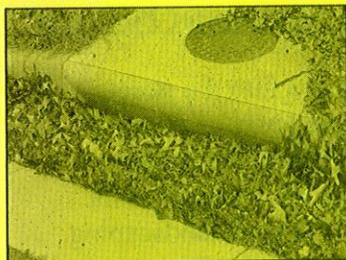
For More Information call 913-573-5400 or go to www.wycokck.org/pw the Unified Government of Wyandotte County/ Kansas City, Kansas website of the Public Works Department and under Additional Links section click Stormwater Info.

What Can I Do to Reduce Stormwater Pollution?

- Do not blow leaves & grass into the street.
- Reseed bare spots on your lawn.
- Do not over apply fertilizers & pesticides.
- Avoid mowing near edge of creeks/streams.
- Incorporate native plants in your landscaping.
- Plant trees in appropriate locations.
- Install a rain garden and a rain barrel.
- Pickup pet waste in your yard.
- Pickup litter in your yard.



El cuidado de su césped tiene un impacto en la escorrentía de aguas lluvias



La mayor parte de la lluvia se filtra en la tierra. Algo de la lluvia fluye a la calle y a los drenajes de aguas lluvias. El drenaje en la foto de la izquierda está obstruido con hojas lo que aumenta el riesgo de inundación al no permitir que el agua entre al desagüe.

La escorrentía de aguas lluvias acarrea hojas, hierba cortada, tierra, desechos de mascotas, pesticidas, fertilizantes, aceite y basura a los drenajes de aguas lluvias y fluye directamente a los arroyos, ríos y lagos locales sin ningún tratamiento.

Qué puedo hacer para reducir la contaminación de las aguas lluvias?

- No soplar las hojas y hierbas a la calle.
- Volver a sembrar las áreas descubiertas en su césped.
- No aplicar exceso de fertilizantes y pesticidas.
- Evitar cortar el césped cerca de la orilla de arroyos.
- Incorporar plantas nativas en su jardín.
- Plantar árboles en los lugares apropiados.
- Instalar un jardín de lluvia y un barril de lluvia.
- Recoger los desechos de las mascotas en su patio.
- Recoger la basura en su patio.

Para mayor información llame al 913-573-5400 o visite la página web www.wycokck.org/pw del Gobierno Unificado del Condado de Wyandotte/Kansas City, Kansas del Departamento de Obras Públicas y bajo la sección Enlaces Adicionales (Additional Links) haga clic en Información de Aguas Lluvias (Stormwater Info).



Cigarette Butt and Cigar Tip Littering



Dropping cigarette butts and cigar tips to the ground, putting them in planters, and disposing of them in the streets, drains and waterways is littering. Research shows that the overall littering rate by smokers for cigarette butts is 65%.

Cigarette butts is the most frequently littered item comprising 38% of roadway litter. Stormwater runoff carries cigarette butt and cigar tip litter into storm drains and it flows directly into local streams, rivers, and lakes polluting waterways.

How Can Smokers Reduce Cigarette Butt Littering?

- Understand that improper disposal of cigarette butts is littering.
- Carry a portable or pocket ashtray when smoking outside.
- Use an ash receptacle to dispose of cigarette butts and cigar tips.
- Don't throw butts out of car windows or empty car ash trays onto the ground.

Source: www.PreventCigaretteLitter.org

For More Information call 913-573-5400 or go to www.wycokck.org/pw the Unified Government of Wyandotte County/ Kansas City, Kansas website of the Public Works Department and under Additional Links section click Stormwater Info.

APPENDIX A.2 Public Works Stormwater Information Website

Appendix A.2 - Public Works Stormwater Information Website

The Unified Government maintains a stormwater information webpage. Through this website, the community can obtain information about stormwater runoff, activities that contribute to stormwater runoff, simple steps the public can do to help reduce pollution in stormwater runoff, and it offers an outlet for the public to report any problems. The link for the Stormwater information is on the Unified Government's Public Works Department home page.

The webpage has a section that provides tips on the following subjects on what residents can do to minimize storm water runoff for:

- Sediment
- Oil
- Septic Systems
- Lawn Chemicals
- Pet Waste
- Car Washing
- Trash/Litter
- Yard Waste

The webpage has links to the following Unified Government ordinances:

- Illicit Discharge Ordinance
- Construction Sites Ordinance
- Post Construction Site Ordinance

The webpage has additional information which includes links to other websites such as the EPA, KDHE, Mid America Regional Council, and K-State Extension. There are other educational fliers available. There is also a PowerPoint presentation on the additional information link that educates about stormwater runoff and gives an overview of what residents can do to minimize stormwater runoff. A copy of the webpage is included in this section.



[Home](#) > [Departments](#) > [Public Works](#)

Public Works

The Unified Government's Department of Public Works provides many of the basic services that impact the lives of those individuals and families who visit, live, or work in Kansas City, Kansas and Wyandotte County.

Public Works provides the administration, planning, and engineering for the City's infrastructure. This includes design, maintenance, and installation of:

- **Streets & Right-of-Ways**
- **Bridges & Roads**
- **All Traffic Control Devices**
- **Treatment of over 10 billion gallons of wastewater per year**



The Department and its various divisions work hand in hand with the Unified Government's 3-1-1 Call Center to address citizen concerns in a timely and efficient manner, resulting in the department's high visibility throughout Wyandotte County. The responsibilities of the department are distributed among multiple operating units that are staffed with a trained work force of approximately 350 employees.

Building and Logistics



Engineering Division



Fleet Services Division



Street Maintenance



Solid Waste Management



Water Pollution Control



Wyandotte County Museum



The Department of Public Works annual operating budget is approximately \$46,795,099. Operating funds are derived from a number of sources including user fees, utility charges and General Fund revenue. In addition, the department also manages a 5-year Capital Maintenance Improvement Program fund of approximately \$60,000,000.

Projects

- [2015 CNIP Project](#)
- [Minnesota Avenue](#)
- [Overflow Control Program](#)
- [State Ave./Village West](#)
- [Mill Street](#)
- [Turkey Creek](#)

Applications/Permits

- [Block Party Permit](#)
- [Right-of-Way Permit](#)
- [Land Disturbance Permit](#)

Announcements

- [Stormwater Quality Education Program](#)
- [Floodplain Map Update](#)

Additional Links

- [ADA Curb Ramp Program](#)
- [FAQ](#)
- [FOG Program](#)
- [Garbage/Trash Collection](#)
- [Technical Provisions & Standard Drawings](#)
- [Additional Info](#)
- [Sidewalk Incentive Program](#)

- [Snow Removal Info](#)
- [Stormwater Info](#)



Address

City Hall
701 N 7th Street
Suite 712
Kansas City, KS
66101

Hours

8:00 am to 5:00 pm
Monday - Friday

Mike Tobin

Director
Email

Phone Numbers

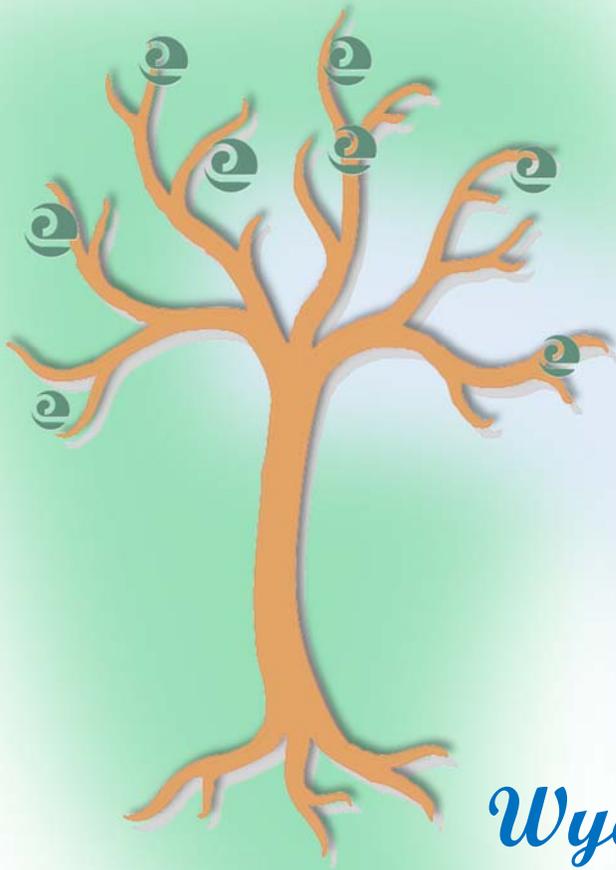
P: (913) 573-5400
F: (913) 573-5435

[VISITORS](#) | [RESIDENTS](#) | [BUSINESS](#) | [GOVERNMENT](#) | [DEPARTMENTS](#) | [EMPLOYMENT](#)

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WYOKCK.ORG

APPENDIX A.3 Wyandotte County Conservation District Annual Report



*Wyandotte County
Conservation District*

2016

Annual Meeting

Thursday February 11, 2016

Agenda

Wyandotte County Conservation District Annual Meeting

February 11, 2016

6:00 p.m.

Welcome

Kris Blevins, Chairperson

Invocation

Dinner

Business Meeting

Introductions

Kris Blevins

Explanation of meeting requirements and purpose

Approval of minutes pages 4-5

Kris Blevins,

Financial Report page 10

David Andervich, Secretary/Treasurer

Annual Report pages 5-9

Cheri Miller, District Manager

Farm Service Agency (FSA)

Amanda Whitehurst, CED JF, LV & WY

Election of Supervisors

Lonnie Miller

Election of one Supervisor

Special Recognitions

Cheri Miller

Election Results

Lonnie Miller

Guest Speaker

**Ray Morgan - NE Kansas Beekeepers
Association Board member**

Pony Creek Honey

Minutes

ANNUAL MEETING 2015

February 5, 2015

6:30 p.m.

Edwardsville Community Center

Welcome and Invocation:

At 6:30 Kris Blevins, Chairperson, welcomed the attendees to the Wyandotte County Conservation District's 2015 Annual Meeting. She thanked everyone for coming and for their continued support. The invocation was given by Marlene Miller. A barbeque meal provided by the board was enjoyed by all.

Business Meeting:

At 7:20, Kris Blevins, Chairperson, called the 2015 Annual Meeting to order.

I want to take this opportunity to thank all the board members, staff and their families for providing our meal this evening and for all the assistance in the planning of our annual meeting.

Kris introduced our Board of Supervisors, our District Manager and guests.

Vice-Chairperson Victor Whitney and his wife Carolyn, District Treasurer, David Andervich and his wife, Charlotte, Board Member John Schilder, Present were Our District Manager - Cheri Miller; Lonnie Miller, Soil Scientist, Jose Mendoza, District Conservationist, Amanda Whitehurst, with the Farm Service Agency; From Wyandotte County farm bureau Kerry Mueller, From the National Ag Hall of Fame, Dawn Gable, Wyandotte County Master gardeners Janet Winkler. Kris thanked them for attending the annual meeting.

Approval of Minutes:

Kris Blevins told those in attendance that the annual meeting minutes were printed in the annual report on Pages 4 and 5. She asked that everyone take a few minutes to read the minutes and asked if there were any additions or corrections. Kris Blevins asked for a motion to approve the minutes; Charlotte Andervich made a motion to accept the minutes; Victor Whitney seconded the motion. Motion carried.

Financial Report:

David Andervich read the financial report located in the annual report. David requested a motion to accept the financial report; Charlotte Andervich made a motion to accept the financial report; Victor Whitney Seconded the motion; the motion was carried.

2015 Annual Report:

Cheri Miller described some of the activities the District was involved in during 2014. On pages 6-11 there are photos and information about some of 2014 programs. There were no questions or comments on the activities and programs. Kris commented on the outreach numbers we are able to accomplish.

Minutes Continued

Board member John Shidler came forward for the Election of Supervisors. He explained the qualifications of the supervisor position and the eligibility requirements for voters. John asked for nominations from the floor. There were no nominations from the floor. The nominating committee provided the district board with the following nominees: Kris Blevins and Janet Winkler. Victor made a motion that nominations cease; David seconded the motion; motion carried.

Recognition of Volunteers:

District Manager, Cheri Miller, recognized the many volunteers in attendance and presented three longtime volunteers ; Mary, Linda and Janet with flowers.

Recognition of Service:

Kris Blevins was recognized by David for her years of service with a conservation pin

Farm Service Agency Report:

Amanda Whitehurst gave the Farm Service Agency Report:

National Ag Hall of Fame:

New Director Dawn Gable provided information about changes and new programs happening at the National Ag hall and center.

John Shilder announced the election results.

Kris Blevins and Janet Winkler were elected

Adjournment:

Kris Blevins made a motion to adjourn the business portion of the meeting. It was moved and seconded by David that the business meeting be adjourned.

Program:

Dennis Harris from the Wyandotte County Fair board provided an update concerning the fairgrounds and their operations. He shared with the attendees the Fairs' goal to complete a shooting range for the 4-H and clubs. He went into detail describing the fundraising, sponsorship and outreach involved with improving the fairgrounds.

2015 Activities, Programs, Workshops and Projects

Program participation numbers— 81 programs with 9608 participants

A few programs included:

Outdoor classrooms: *SOIL Students Outdoors Investigating the Land - Bio-search/survey—Earth day events*

On site filed trips: *Geo-Fest - Natural Resource Day*

Family science nights: *KC ZOO—Turner 6th grade academy— Early childhood*

Community events: *Earth Day River market—Village Green Air quality—Touch a Truck Ag Hall*

Traditional classrooms : *Pre-K/ head start, elementary school, middle school, pre-service teachers*

Alternative and special education classrooms: *Adaptive environmental education*

Environmental reviews

The Conservation District with Technical Assistance from NRCS completed **83** environmental reviews for new development, zoning, and special use permits.

The district also worked with 12 different landowners to improve their property to be in compliance with their special use permit.

Site Visits

The District Manager along with the Soil Scientist went on 43 different site visits to work with homeowners/landowners/ producers addressing natural resource concerns.

Erosion from water or wind

Pasture or grass seeding

Trees—planting, pruning, disease, pests

Native plantings

Animal habitat domestic and wildlife

Water quality—runoff, livestock sources

Rainbarrel set up

Composting start up

Cost Share programs: The Conservation District brings funds to landowners and protects our natural resources

The Conservation District was able to offer cost share for water quality from the State Cost share program. The district was able provide 12,364 dollars to assist five homeowners in repairing failed onsite waste systems.

This year the district was also able to provide assistance in seeding a highly eroding field.

We still have cost share available for landowners of 40 acres or more. Let us know if you have a resource concern, we might be able to help.

On sight School Festivals



The entire sixth grade student body participated in GEO-FEST 2016. Nearly 200 students, teachers, administrators, and paras participated in 6 sessions: glaciers, earth balloon, soil tunnel, stream trailer, fossils, and rock cycle.



Geology a science that deals with the history of the earth and its life especially as recorded in rocks .

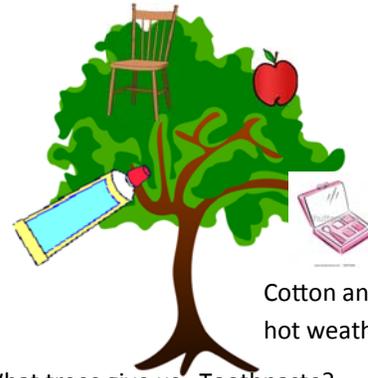


Early Childhood Science— Bringing STEAM to 3-5 year olds



What is grown and raised on a farm ?

Recycling cleaning out Oscars garbage can.
What can be recycled, composted, reused or sent to the landfill.



What trees give us. Toothpaste?
Makeup? Boats? Syrup? Paper?



Cotton and wool make clothes. Which is better for cold and hot weather? Where do we get wool? Sheep Llamas, goats, even bison. How is cotton grown?

Harvest time on the farm:

Thanksgiving—native crops



Sorghum



Corn



Community Family Programs

Kansas City Zoo Family Science Nights

Geology, Physics, Chemistry, Energy, Biology

A few of the topics covered during the Monthly Free Family Science Night at the Zoo. First Thursday of the month September to December & February to May hope you can join us!

Hands on programs for kids and parents to learn about the various fields of Science and how they relate to daily life. We add the special twist Natural resources! **Rock Cycle** of Kansas Sweeteners grown in Kansas, make your own **sweetness scale**. Science is Cool, **Glaciers** the evidence they left behind in Kansas. **Gravity** Soil and seed **painting** with gravity.

River Market Earth Day

Composting rain barrels and soil painting in the rain. We provided a mini workshop and demonstration for visitors to the River market on building rain barrels and home composting. During a lovely April Shower.



Science Nights -

Engaging families and communities

Urban wildlife, how do we know they are here?

Scat and tracks

Turner 6th grade academy Family Science Night



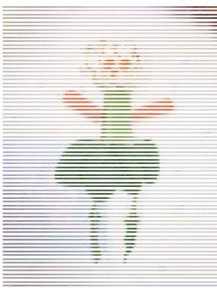
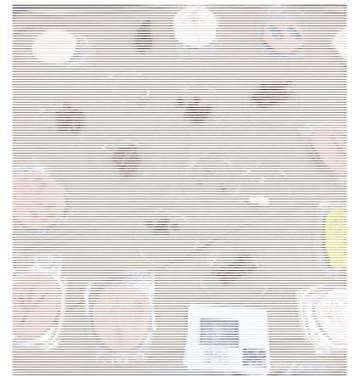
Raccoon

Scat can be found in prominent areas such as the crotch of a tree, on or under rock outcroppings and fallen trees and stumps. Several raccoons may make use of the same site to deposit their droppings. Their droppings are blunt ended and up to 3/4 of an inch in diameter



Workshops— In-services

Sharing Lessons and ideas



Who do we share programs with?

Schools, Scouts, youth groups, camps, families, other conservation districts, Federal and state agencies, local nonprofits, museums, and learning centers.

Providing opportunities for professionals and teachers to try out new programs and share ideas for incorporating project base learning into the classroom.

Interesting questions

At the district office we often receive requests for assistance with problems homeowners are trying to cope with. These requests generally have to do with a nuisance animal, insect, reptile or fungus.

The 20 most common questions this year have been about:

Opossums Raccoons Bats Bees Ants Fox Geese Starlings
Oak galls Emerald ash borers Groundhogs Tree Frogs Duckweed/watermeal
Moles Aquaponics Snakes Brown Recluse spiders
House centipedes rain barrels composting rain garden plants

If you have a question or concern about any of our local natural resources we are happy to help you find an answer/solution.

We can't, however, help you renew your auto tags or get a title for your house (most common direction given).



Statement of Receipts and Expenses

January 1, 2015 through December 31, 2015

Operations Fund

RECEIPTS

Balance, January 1	<u>37892.79</u>	
County Funds	42771	
State Matching Funds	21975	
NPS	0	
Refunds/adjust	1673.17	
Interest	<u>22.01</u>	
Total Receipts	104333.97	<u>104333.97</u>

EXPENSES

Bonds and Insurance	2649.68	
Dues	0	
Employee Benefits	15228.23	
Education	3614.94	
Mileage	1018.56	
Office Expenses	3752.97	
Professional Services	1050	
Workshops and Registrations	0	
Supervisors Expenses	0	
Taxes	12858.72	
Wages	27879.46	
Total Expenses	<u>68052.56</u>	-68052.56

36281.406

Ending Balance

7

Enterprise Fund

RECEIPTS

Balance January 1	1163.82	
Annual Meeting	0	
Education Donations	1272	
Total Receipts	2435.82	2435.82

EXPENSES

Annual Meeting	358.74	
Education	1289.34	
Office Expenses	<u>0</u>	
Total Expenses	1648.08	-1648.08

Ending Balance Enterprise

787.74

Ending Balance Operations

36281.41

Ending Cash Balance

37069.15

Wyandotte County Conservation District Board of Supervisors

1953-2013

W.S. Andrews *	1953-1956	Paul Piersee*	1995-1995
Melvin S. Johnson *	1953-1956	Jim McDaniel	1995-1998
Leon Lallier *	1953-1988	Bruce Chladny	1997-1999
Litton Worthington *	1953-1988	Archie Sanders *	1998-2003
Pete Yunghans *	1953-1963	Kris Blevins	1999-
William E. Miller *	1957, 1961-1962	Tim Pierce	2000-2001
Chester Watkins *	1957-1981	Phillip Correa	2001-2012
Roy C. Tinberg*	1958-1970	John Shidler	2002-
William Theno*	1959-1960	Martha Bach	2003-2010
Paul Smith*	1963-1971	Julie Friesen	2010-2011
Robert C. Moore*	1964-1989	Victor Whitney	2011-
Bernal Millsap*	1971-1972	Dave Hackathorn	2012-2015
Joseph A. Sass*	1972-1984	Janet Winkler	2015-
Werner Rosenthal*	1972-1984		
Robert Daly*	1982-1999	* Deceased	
James C. Kreider*	1985-1994		
David J. Andervich	1987-		
William P. Brenner*	1988-1991		
Phylis A. Hancock	1989-2002		
Terry Lanaman	1991-1994		
Frank Van Fleet	1994-1997		

**Help us say Thank You to the following Conservation District Supporters
by patronizing their businesses and associations**

Wyandotte County

Farm Bureau

9340 Parallel PKWY

Kansas City, KS 66112

Rainbow Carwash

***4604 Rainbow Blvd
Kansas City, KS 66103
(913) 432-1116***

Hours:

Monday—Saturday

8 am - 6 pm

Sun

***National Agricultural
Center and Hall of Fame***

630 N. 126th Street

Bonner Springs, KS 66012

***Kansas Department of
Wildlife, Parks and Tourism***

8304 Hedge Lane Terrace

Shawnee, KS 66227

Kansas City Zoo

6800 Zoo Dr.

Kansas City, MO 64132

(816) 513-5800

Hours

Monday—Sunday

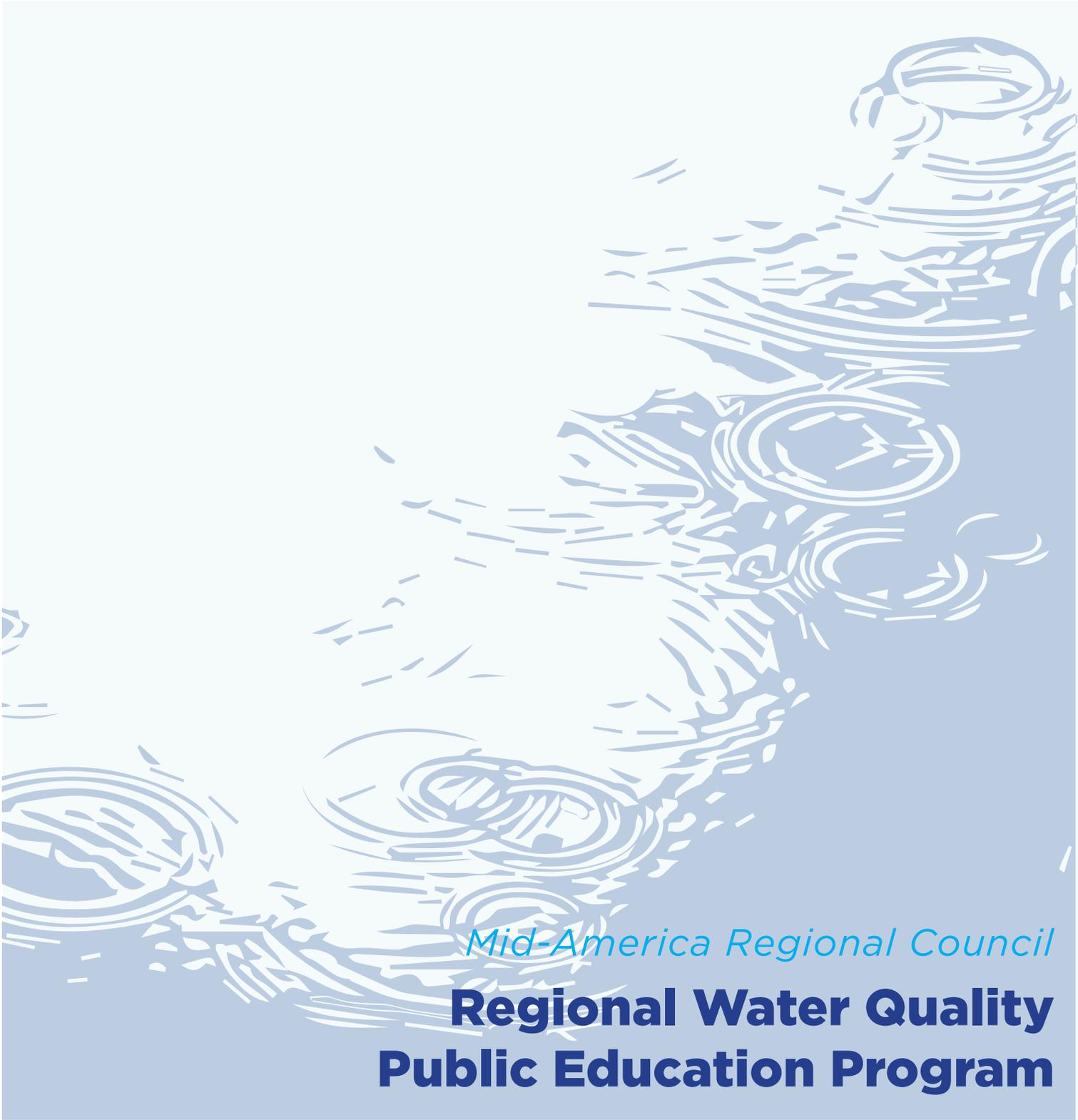
9:30 am—4 pm

**APPENDIX A.4 Mid-America Regional Council Water Quality Education Annual
Report**

APPENDIX A.4 Mid-America Regional Council Water Quality Education Annual Report

The Unified Government participates and provides funding for regional public education and outreach in the Kansas City metropolitan area. This regional effort is coordinated by the Mid America Regional Council (MARC) in Kansas City, Missouri. This regional effort uses media advertising, printed materials, internet, and local initiatives.

The Unified Government remained a member in good standing throughout 2015 and was an active participant in the quarterly Water Quality Education meetings. Dues paid to MARC for the committee were \$20,000. Staff regularly attended at-large meetings as well as actively involved in WQRC Grant and training sub-committee activities. The *MARC Water Quality Education Annual Report* is enclosed, which highlights the regional water quality public education efforts throughout the year. Additional information about the MARC can be found on their website, which is located at: www.marc.org.



Mid-America Regional Council

**Regional Water Quality
Public Education Program**

2015
**ANNUAL
REPORT**



Clean Water. Healthy Life.

**Regional Water Quality Public Education Program
Annual Report, January–December 2015**

COMMITTEE HISTORY

Since 2003, MARC has convened a committee of representatives from local governments and environmental organizations to develop a regional watershed public education program. The committee was formed in response to numerous requests from local governments to use a cooperative approach to water quality public education and to meet federal NPDES Phase I/II regulatory requirements. The committee’s efforts have provided a firm foundation for its goal of educating the public about actions they can take to reduce non-point source (NPS) pollution.

PROGRAM DETAILS

The Regional Water Quality Public Education Program uses a comprehensive approach to raise public awareness about watershed issues and water quality in the Kansas City region. Its long-term water quality public education strategy capitalizes on momentum created by past water quality awareness efforts and community initiatives such as the Kansas Healthy Yards and Communities program and the committee’s biennial public attitude survey. Each year, the program identifies specific water quality issues to address through its biannual public outreach campaigns; however, the structure is flexible enough to promote additional messages when opportunities arise. Campaigns encompass varying levels of support and outreach methods, as explained below.

PROGRAM FOCUS

During the past 12 years, the public education program has addressed several top NPS pollution issues facing the Kansas City region. The program’s theme — “Clean Water. Healthy Life.” — focuses on changing behavior throughout the region in order to improve water quality, community health and quality of life. Each year the Regional Water Quality Education Committee (WQEC), with MARC staff support, develops an NPS pollution-focused message that supports the program’s theme and determines the most effective means to disseminate the message. The committee’s education and outreach activities vary each year but typically consist of a media campaign, a mini-grant program, training, and education and outreach materials. This year, the program has identified and participated in stormwater management and training opportunities.

2015 PROGRAM ACCOMPLISHMENTS

Media Campaigns

In 2015, the public outreach campaign continued to target residents and homeowners, focusing on two topics of importance to water quality: reducing litter and encouraging the use of native plants. Campaigns typically include a variety of elements such as paid advertising, earned media, printed materials and other activities. MARC staff helps the committee with strategic planning for media campaigns, including message development, writing, graphic design and advertising purchases.

Stop Littering

The anti-litter campaign was designed to educate the public about how litter on the ground ends up in our region’s streams and waters, untreated. The campaign’s second phase in 2015 also targeted young adults and smokers, encouraging them to stop littering by raising awareness that cigarette butts are litter and should be disposed of properly. In addition to motivating people to stop littering, the campaign elements directed people to visit a Stop Littering web page to get more information and connect to resources that can equip them to help keep the community litter-free. MARC provided HTML emails with the anti-litter message for committee members to distribute through their own channels. A companion giveaway of automobile litter bags rounded out the campaign.

Medium	Number of Ad Placements	Estimated Gross Impressions
Indoor	46	Unknown*
Online	8	672,527
Print	6	285,000
Total	60	957,572+

*Actual impressions were significantly higher; Union Indoor Advertising does not estimate impressions.

Native Plants

The committee’s fall media campaign encouraged homeowners in the greater Kansas City area to choose native plant species for their yards and gardens. Messaging was developed with inspiration from the Blue Thumb program founded in Minnesota. Advertising targeted homeowners, neighborhood associations, gardeners/landscapers and those interested in green living. The campaign’s goals were to educate

CAMPAIGN ELEMENTS “Stop Littering”



Print Advertisement



Promoted Facebook Post



Indoor Poster

CAMPAIGN ELEMENTS

Native Plants



Do you have a Blue Thumb?

What you plant in your yard affects our water quality.
Go native and plant with a **Blue Thumb**.

Native plants can:

- Conserve water and slow erosion.
- Reduce pollution in local streams and rivers.
- Reduce the need for mowing, fertilizers and pesticides.
- Improve wildlife habitat and air quality.

Blue Thumb
PLANTING FOR CLEAN WATER®

Learn more at marc.org/water

Full Page in KC Star “Grow” section

Change your **green thumb** to **BLUE**

Native plants help improve our water quality

Blue Thumb PLANTING FOR CLEAN WATER®
marc.org/water



Change your **green thumb** to **Blue.**

Native plants help improve our water quality

Blue Thumb
PLANTING FOR CLEAN WATER®
marc.org/water

Web ads



Native Roots RUN DEEP

Blue Thumb
PLANTING FOR CLEAN WATER®

Promoted Facebook Post

audiences about the water quality benefits associated with the use of native plants, and to drive traffic to a website landing page for more information. Using a highly targeted media mix, the native plants campaign had strong results, with a cost per thousand impressions of \$8.85, and an above-average click-through rate for the digital advertising mix.

Medium	Number of Ad Placements	Estimated Gross Impressions
Online	30	2,168,914
Print	10	1,960,000
Radio	30	53,000
Total	70	4,181,914

Blue Thumb – Planting for Clean Water Program

In 2015, the WQEC joined the Blue Thumb – Planting for Clean Water program. This award-winning collaborative program was founded by Rice Creek Watershed District in Minnesota. The Blue Thumb program encourages homeowners to use native plants, rain gardens and other best management practices to reduce runoff from home landscaping and improve water quality. The program helps partners present a unified public education message and provides access to tools and information for communities to plant effectively for clean water.

GRANT PROGRAMS

Each year, the committee offers funding opportunities to local nonprofit and educational organizations for education and outreach events related to reducing stormwater runoff and improving water quality in area creeks and streams. Proposals undergo a competitive selection process and are evaluated by a grant selection subcommittee. The Water Quality Education Committee budgeted \$20,000 for grant awards in 2015, with a cap of \$5,000 per proposal. The following seven proposals were chosen for funding:

Missouri River Relief (\$1,000)

Missouri River Relief expanded its educational offerings with a pilot program of classroom presentations for middle- and high-school students, a watershed learning festival and a “Day on the River” program. The education events finished with a Big Muddy River Clean-up for people of all ages on Oct. 3, 2015. Students, parents and area residents went on the river to witness the highly visible effects of stormwater runoff and non-point source pollution in the riverscape. Debris removal was a part of the river clean-up.

South Grand River Watershed Alliance (SGRWA) (\$2,475)

The SGRWA partnered with Raymore Parks and Recreation, the city of Raymore, and the Missouri Department of Conservation to provide public education about the adverse impacts of stormwater

runoff and water pollution. Two demonstration landscape features were installed to mitigate the effects of runoff. SGRWA also purchased a mixture of native prairie forbs and grass seed for a prairie planting; a diverse selection of native shrubs and trees for streamside planting; and installed an informative sign.

StoneLion Puppet Theatre (\$4,000)

StoneLion Puppet Theatre conducted a two-part program: first, educating the public about the adverse effects of stormwater runoff and water pollution; and second, promoting policies and management practices that help reduce stormwater runoff and water pollution. Part one used a curriculum called “Stormwater in the Classroom.” Part two included a stormwater demonstration project and neighborhood tour called “Reducing Runoff in Rosedale.”

West 39th Street Community Improvement District (\$3,525)

In 2015, the organization’s Stormwater & Native Landscaping Initiative was adjusted to incorporate requests made by the community. Building on the successes of a hands-on workshop held in 2014, the CID hosted a public forum that focused on four topics: reduction of water use through native plant selection; preventing stormdrain debris and common stormwater runoff issues; best management practices with native species; and beautification through maintenance.

Ivanhoe Neighborhood Council (\$3,500)

Ivanhoe Neighborhood Council restored its existing rain garden using a unique, diverse and culturally relevant approach. The Toni & Zora memory garden will help improve air and water quality; reduce excess water runoff; recharge ground water; foster grass-roots, neighborhood-level educational outreach; increase access to fresh food; and offer positive economic impact on a small scale.

Blue River Watershed Association (\$2,750)

The Blue River Watershed Association and its partner organizations will conduct a “Revolving Green Around the Blue” restoration event in spring 2016. This public event has multidimensional goals, including habitat restoration for a section of the Blue River in the Conservation Opportunities Area (COA); emphasizing stream quality, good forest management practices and watershed health; promoting awareness, understanding and appreciation for Missouri’s natural resources; recruiting new outdoor users; and attracting and engaging new partners while strengthening existing partnerships.

Friends of the Kaw, Inc. (\$2,750)

Friends of the Kaw managed and facilitated two educational cleanup floats on the Kansas River, and prepared and implemented a water quality educational activity called “WQ Hydrocaching” (a geocaching activity) for area adults, families and groups.

GRANT PROGRAMS



The South Grand River Watershed Alliance



Missouri River Relief



West 39th Street Community Improvement District

TRAININGS

Webcasts

The committee hosted six webinars in 2015:

- “Using Illicit Discharge Programs to Monitor Bacteria,” Feb. 18, 2015
- “The Runoff Reduction Method & Its Applications,” March 18, 2015
- “Green Infrastructure & Green Jobs,” May 20, 2015
- “Multi-Sector & Industrial Stormwater Permits,” June 10, 2015
- “What to Do About Trashy Watersheds,” Sept. 16, 2015
- “Checking in on Post-Construction Stormwater Management,” Nov. 18, 2015

Stormwater Training

The WQEC hosted *Installation and Maintenance of Stormwater Treatment Best Management Practices* in November 2015. The one-and-a-half-day training course covered a broad range of topics geared toward landscapers, subcontractors and general contractors currently working with stormwater treatment BMPs and those wishing to gain experience with those systems. The training was held at the Anita B. Gorman Discovery Center and attracted 40 participants.

The training featured internationally renowned North Carolina State University instructors William F. Hunt III, Ph.D., P.E., and Bill Lord. Hunt is a professor and extension specialist in North Carolina State University’s Department of Biological and Agricultural Engineering. Lord is an area environmental agent with the North Carolina Cooperative Extension Service.

PRINTED MATERIALS

Native Plants and Rain Gardens

- Continued to distribute *How to Build Your Own Rain Garden* and *Know Your Roots* brochures.
- Continued to distribute rain gauges designed with native species landscapes as promotional giveaway items.
- Redesigned and distributed *Do Not Mow/Native Planting* signage for BMPs.
- Ordered customized seed packets of a hardy, native biennial (for highest rate of growing success).

Pet Waste

- Distributed *Pick Up After Your Pet* waterproof signage to local municipalities.
- Continued distribution of *Pick Up After Your Pet* brochures.
- Distributed portable, refillable pet waste bag dispensers with *Pick Up After Your Pet* message as promotional giveaway items.

Lawn Care

- Continued to distribute *Build Your Own Rain Barrel*, *Redirect or Disconnect Your Downspout*, *Know Your Soil*, *Making and Using Compost*, and *Use Lawn Chemicals Wisely* brochures.



Brochure Translations

- Continued to use existing supply of Spanish-language brochures.

General Stormwater Education

- Updated the design for the Stormdrain Inlet Markers for local municipalities.
- Updated the design for the *Stormdrain Stewardship* and *Know Your Watershed* brochures.
- Continued to distribute *Keep Sediment Out of Our Water*, *Know Your Watershed*, *Protect Our Streams*, and *Stormdrain Stewardship* brochures.

Item	Quantity
Brochures	7855
Giveaways	1132
Total	8987

ADDITIONAL WORK

Sponsorships

The WQEC sponsored events that promoted the awareness of water quality issues:

2015 Sustainable Success Stories — Mid-America Regional Council honored local projects as 2015 Sustainable Success Stories. The 2015 awards highlighted a cross-section of sustainability efforts, with a focus on green infrastructure projects and initiatives, such as stormwater management, natural resource conservation and restoration, model policies and design approaches, community engagement, and urban forestry.

The honorees, selected by a panel of local judges, include:

- Antioch Urban Growers, Kansas City, Missouri.
- Avenue of Life Mattress Recycling Initiative, Kansas City, Missouri, and Kansas City, Kansas.
- Composting Program at Johnson County Community College, Overland Park, Kansas.
- Swope Campus Parking Lot and Sustainable Stormwater Improvements, Kansas City, Missouri Water Services.
- Legacy Park, Lee's Summit, Missouri.
- The Rozarks Urban Nature Trail System, Kansas City, Kansas.



Instructor Bill Lord giving tour of onsite BMPs

PROMOTIONAL ITEMS



Imprinted Auto Trash Bag



Seed Packets



Waterplaces: 100 works on paper by Lynn Benson
Photo by EG Schempf

Sponsorships continued

Waterplaces: 100 works on paper by Lynn Benson — This exhibit displayed 47 feet of vellum reflecting “water places” around the world. On Nov. 5, 2015 an artist lecture and panel discussion held at the Kansas City Design Center focused on water issues. The WQEC sponsored this event along with Kansas City Design Center, and members of the committee served as panelists.

Streamlining Communications

An email listserv was established to aid internal committee communications, allowing members to share news with and ask questions of the entire group. A photo and campaign materials “server” was also created, allowing members to access and use MARC’s water quality-related photos in their own outreach and communication efforts. The email listserv and Dropbox “server” are maintained and hosted by MARC staff.

Art Requests in 2015

Shared “Know your Roots” illustration, comparing roots of native plants with non-native plants, with the government of Lincoln County, Missouri. This popular illustration has been requested by numerous organizations across the Midwest over the last decade.

FUNDING

In January 2015, MARC submitted a program funding request to local governments for \$166,000. During the course of the year, 23 local governments supported the program. Participating governments are listed below.

PARTICIPATING GOVERNMENTS

Belton, Missouri	Overland Park, Kansas **
Blue Springs, Missouri	North Kansas City, Missouri
Clay County, Missouri	Gladstone, Missouri
Excelsior Springs, Missouri	Independence, Missouri
Peculiar, Missouri	Jackson County, Missouri
Platte County, Missouri	Johnson County, Kansas *
Kansas City, Missouri	Raymore, Missouri
Lake Lotawana, Missouri	Raytown, Missouri
Lake Waukomis, Missouri	Sugar Creek, Missouri
Liberty, Missouri	Weatherby Lake, Missouri
Lenexa, Kansas **	Unified Government of Wyandotte County /
Lee's Summit, Missouri	Kansas City, Kansas**

**(Contributes for all Johnson County cities and unincorporated areas)*

*** (Contributes additional funding above standard per capita rate)*

WQEC COMMITTEE CO-CHAIRS

Nico Cantenero, Water Quality Specialist,
City of Overland Park
Overland Park, Kansas

Lara Isch, Water Quality Educator
KC Water Services,
Kansas City, Missouri

MARC STAFF

Tom Jacobs, Director of Environmental Programming
Alecia Kates, Water Quality Planner
Kym Bledsoe, Public Affairs
Nordia Epps, Public Affairs
John Staples, GTI
Caitlin Dix, Environmental Planning Intern

CONTACT

To learn more about the MARC Regional Water Quality Education Committee, contact Alecia Kates at akates@marc.org or 816-701-8233



Clean Water. Healthy Life.
www.marc.org/water

APPENDIX A.5 Local Newsletters Public Education Articles

APPENDIX A.5 Local Newsletters Public Education Articles

The following newsletters and services were used to distribute and provide information to the public on stormwater issues and pollution prevention

1. Liveable Neighborhoods Task Force Neighborhood Monthly Newsletters.

(This is a monthly newsletter printed for neighborhood groups, with over 5,000 copies prepared monthly.)

- March. HHW days for 2014.
- March. Open burning in April.
- April. BPU Energy Efficiency
- April. Electronic waste recycling
- April. Going Green with lawn care including planting of natural plants
- April. HHW days
- April. Open burn in April.
- April. Yard Waste Drop Off
- May. Going Green with lawn care including planting of natural plants
- May. HHW days
- May. Littering
- June. BPU Hosts Free Summer Energy Efficiency Workshop
- June. Farmer's Market Vouchers
- June. HHW days.
- June. Pet Waste Article.
- June. Reusing and Not Disposing article
- July. Farmer's Market Vouchers
- July. Car wash article
- July. HHW days.
- August. Farmer's Market
- August. HHW days.
- August. Septic Systems
- September. Closing the Recycling Loop Locally With Glass
- September. Open Burn schedule for fall
- September. HHW days.
- September. Farmer's Market
- September. BPU Energy Audit
- October. HHW Days
- October. Leaf Management Article
- October. Open Burn Schedule
- November. BPU Turn Old Fridge Into Cash
- November. Electronics Recycling Event for America Recycles Day
- November. Open Burning article.
- December. Christmas Tree Recycling and Yard waste center closing for winter.

2. Unified Government Weekly E-Newsletter.

(The U.G. E-Newsletter comes out each Tuesday to over 2,500 subscribers.)

- Stormwater Quality Education Program 02/10/15
- KCK Burn Permit Process 02/19/15
- HHW 2015 Schedule 02/19/15
- Stormwater Quality Education Program 03/03/15
- Stormwater Quality Education Program 03/10/15
- HHW 2015 Schedule 04/14/15
- Arbor Day Tree Planting 04/27/15
- Going Green With Lawn Care 04/27/15
- Who Litters and Why People Litter 05/12/15
- Cigarette Littering 05/20/15
- What You Can Do to Prevent Litter 05/28/15
- Proper Handling of Pet Waste 06/30/15
- Faulty Septic Systems Can Pollute Stormwater 07/28/15
- HHW Collection Days 07/28/15
- Washing Your Car Can Impact Water Quality 08/04/15
- Electronics Recycling Event 11/04/15
- Open Burning 11/10/15
- Electronics Recycling Event 11/10/15
- Open Burning Season Extended 11/17/15
- Christmas Tree Recycling 12/22/15
- Christmas Tree Recycling 12/29/15

3. Wyandotte County Extension Office Master Gardener Composting Education in 2015:

• Delaware Ridge 2 nd Graders	80 Students
• N.O.W.	12 students
• Rainbow Freedom School	23 students
• Ag. Hall Touch-a-Truck	149 students
Total	264 students



UNIFIED GOVERNMENT

NEIGHBORHOOD NEWS



MARCH 2015

Liveable Neighborhoods Neighborhood News

Your neighborhood group information can be placed here.

If you would like newsletters made, contact our office at (913) 573-8737 or email us at vmliveableneighbor@wycokck.org.

Women's Self Defense Seminar
8TH STREET YMCA
900 N 8th Street – KCKS 66101
Saturday, 10:00 am – 12:00 pm
March 7, 2015

During this comprehensive seminar participants will learn situational awareness, prevention, defending using anatomical weak points and practice the application of self-defense. Space is limited get your spot now!

Register before March 6th and receive an Early Bird discount:
\$5 for Y members
\$10 for community participants

Register the day of the seminar (March 7, 2015)
\$10 for Y members
\$15 for community participants



For more information or to register, call 913.321.9622 or visit the Welcome Center.

KansasCityYMCA.org

OUR MISSION

The YMCA of Greater Kansas City, founded on Christian principles, is a charitable organization with an inclusive environment committed to enriching the quality of family, spiritual, social, mental and physical well-being.

A UNITED WAY AGENCY



LIVE UNITED



Partnering to build strong families – one financial step at a time.

United Way of Greater Kansas City
unitedwaykc.org

If your household earned \$58,000 or less, you're eligible!

You may qualify for **FREE** tax preparation!

Learn more at:
nextstepkc.org

If your adjusted gross income is \$52,000 or less, visit one of our VITA tax assistance sites to have an IRS-certified volunteer prepare your return for free. For locations, visit nextstepkc.org

If your adjusted gross income is \$58,000 or less, prepare your own return at myfreetaxes.com.

Or visit one of our "assisted self preparation" sites and we'll coach you through the process.

Either way, it's free!

To find tax help locations dial 2-1-1



2-1-1
Get Help. Give Help.



Find us on **Facebook**
NextStepKC

For more information, dial 2-1-1, (816) 474-5112 or call toll-free at (866) 320-5764

**Important
Information for
Uninsured women**



Keeler Women's Center is partnering with the Center for Women's Care at St. Luke's North to offer a free mammogram screening event on Wednesday, March 11. Our target audience include women who meet these criteria: 35 years of age or older; uninsured; not currently experiencing any breast tenderness, pain, lumps, or discharge; not recent history of breast cancer; not currently being followed from a previous abnormal mammogram.

If you or anyone you know meets these criteria for a free mammogram, please call the Center for Women's Care, St. Luke's North, at 816.891.2273. Be sure to indicate that you are calling to make an appointment for the Keeler Women's Center's event on Wednesday, March 11. Call soon as space is limited.

Love and Logic series, A Creative Choice, a two-week series for men and women

Wednesdays, (March 4 and 11), 9:30-11:00 a.m.

Our presenter is Nona Boyd, parent educator. A limited number of childcare spaces are available. Be sure to mention if childcare is needed.

Women Writers' Group

1st Thursday, (March 5) 1:00-2:30 p.m.

Come and share your love of writing with other women. This is a non-threatening and fun group. Women of all levels of proficiency are welcome.

Keeler Women's Center, a ministry of the Benedictine Sisters is located at 2220 Central Ave., KCK. All programs are free. Donations are welcome. Call 913.906.8990 or register on-line at www.keelerwomenscenter.org



**Kansas City Community Gardens
2015 Workshop Schedule**

**ROSEDALE DEVELOPMENT ASSOCIATION
1403 SOUTHWEST BLVD. KANSAS CITY, KS 66103**

February 3 Tuesday 6:00 PM
Planning your Plot for Garden Success

March 3 Tuesday 6:00 PM
Raised Bed Gardening

April 7 Tuesday 6:00 PM
Tomatoes, Peppers and Sweet Potatoes – Oh My!

August 4 Tuesday 6:00 PM
Cooking with Summer's Bounty

**MINNIE ST. COMMUNITY GARDEN
4130 MINNIE STREET KANSAS CITY, KS 66103**

July 7 Tuesday 6:00 PM
What's Really Bugging You? - Insects in the Garden
(Hands On)



**All workshops are approximately 1.5 hours.
Workshop space is limited.**

**Please Call 816-931-3877 to register or
register online at www.kccg.org/register.**



2015 Kansas City, Kansas Burn Permit Process



Residents in Kansas City, Kansas are allowed to apply for a burn permit for the time period of the month of April 2015 and the time period of October 16, 2015 through November 15, 2015 at any of the Fire Stations currently staffed by the Kansas City, Kansas Fire Department. Kansas City, Kansas residents are limited to one 3-day burn permit per burn period that allows for the combustion of one 10 foot by 10 foot or smaller pile of naturally occurring residential organic yard waste generated onsite. If you operate a business out of your home you are classified as a business and cannot participate. Applications must be received and approved at least 24 hours prior to the commencement of burning. Open burning with a permit is allowed between the hours of 7:00 a.m. to 6:00 p.m.

The resident doing the burning must be at the burning site at all times. Residents shall maintain a copy of the burn permit on site, an adequate water supply and/or fire extinguisher while conducting open burning. In no circumstance shall open burning occur within 15 feet of any building or within 15 feet from any one's property line. Piling of brush, tree limbs, grass and other organic materials are limited in size to 100 square feet at the base.

Each Burn Permit allows for one organic pile per permit, one permit per residential property. (yard waste generated such as tree limbs, leaves, weeds, brush and grass) All organic materials burned within the city limits of Kansas City, Kansas are limited to organic materials and/or burning without a permit shall be subject to Section I-7 (General Penalty, Continuing Violations) of the general provisions code of the Unified Government of Wyandotte County/KCK.

At no time shall wire insulation, tires, rubber products, plastic, automobile products, paper, cardboard, construction chemicals, household chemicals or any other material that normally emits dense smoke, noxious odors or hazardous air pollutants be burned.

At any time, the Fire Chief or his designee may revoke burn permits or ban open burning. Weather conditions (high winds, low humidity) may make open burning too dangerous. Open burning may also be suspended when air pollution "Red Alert" days are declared by the Mid America Regional Council, MARC, and the Unified Government.

2015 Household Hazardous Waste Collection Days Set

The schedule for the Household Hazardous Waste Collection days for Wyandotte County residents has been set for 2015. The site will be open from 8:30 a.m. to 1:00 p.m. on the following Saturdays: April 18, May 16, June 20, July 18, August 15, September 19, and October 17. The site is located at 2443 South 88th Street in Kansas City, Kansas. (South on 88th Street from K-32) or (East of I-435 using Woodend exit near Kaw River).

When bringing items to the collection site please label or identify all items. Items accepted include tires (limit of 10 tires and rims need to be removed), motor oil, batteries, antifreeze, degreasers, paints, varnishes, solvents, lawn & garden insecticides/pesticides, and household cleaning products. For additional information call 573-5400.

Information provided by Operation Brightside

REMINDERS

Liveable Neighborhoods Meeting Thursday March 26, 2015

Every 4th Thursday of the month from
8:30am-10:00am

Neighborhood Resource Center
(4953 State Avenue)

For questions, suggestions for presentations or to get on the agenda for future meetings, please contact Andrea or LaMonica at 913-573-8737 or via email at vmliveableneighbor@wycokck.org.



PRIMARY ELECTION

March 3, 2015

Voter registration has already closed.

In-person advance voting begins at the Election Office and satellite location:
Saturday, February 21, 2015.

LOW INCOME ENERGY ASSISTANCE PROGRAM (LIEAP)

Deadline: Tuesday, March 31st, 2015.

Applications must be received prior to 5:00pm on March 31, 2015.

Contact the local DCF office at 913-279-7000

THE UTILITY TAX REBATE

Deadline: March 31, 2015.

Clerk's office is located inside of City Hall at 701 North 7th Street, KCK 66101 on the 3rd floor. Monday - Friday, 8:30am to 4pm on a first come, first serve basis. Please contact the Unified Government Clerk's Office 913-573-5260 with questions.

Wyandotte/Leavenworth Area Agency on Aging & Disability Resource Center: you must schedule an appointment by dialing 913-573-8531. The ADRC will assist on Tuesdays and Thursdays by appointment only.

Social Security to Expand Field Office Hours Nationwide



*Budget for Fiscal Year 2015 Allows
Agency to Restore Some Service
Hours*

Social Security announces as a result of Congress' approval of the fiscal year 2015 budget, the agency will expand its hours nationwide and offices will be open to the public for an additional hour on Mondays, Tuesdays, Thursdays and Fridays, effective March 16, 2015. A field office that is usually open from 9:00 a.m. to 3:00 p.m. will remain open until 4:00 p.m. Offices will continue to close to the public at noon every Wednesday so employees have time to complete current work and reduce backlogs.

"This expansion of office hours reaffirms our commitment to providing the people we serve the option of top-notch, face-to-face assistance in field offices even as we work to expand online services for those who prefer that flexibility," said Carolyn W. Colvin, Acting Commissioner of Social Security. "The public expects and deserves world-class customer service and thanks to approved funding, I am pleased we will continue our tradition of exceptional service."

In recent years, Social Security reduced public office hours due to congressional budget cuts, growing backlogs and staffing losses. The agency began recovery in fiscal year 2014 by replacing some field office staffing losses and providing overtime support to process critical

work. With the commitment of resources in fiscal year 2015, the agency is able to restore some service hours to the public.

Most Social Security business does not require a visit to a local field office. Many services, including applying for retirement, disability and Medicare benefits, creating a my Social Security account, replacing a Medicare card, or reporting a change of address or telephone number are conveniently available anytime at

www.socialsecurity.gov. Social Security also offers assistance via a toll-free number, 1-800-772-1213 (Voice) and 1-800-325-0778

(TTY). Representatives are available from 7:00 a.m. to 7:00 p.m.,

Monday thru Friday

Kansas City, Kansas Office

850 Nebraska Ave Kansas City, KS 66101

Having trouble viewing this email? [Click here](#)

Hi, just a reminder that you're receiving this email because you have expressed an interest in Unified Government of WyCo/KCK. Don't forget to add info@wycokck.org to your address book so we'll be sure to land in your inbox!

You may [unsubscribe](#) if you no longer wish to receive our emails.



Unified Government of Wyandotte County/Kansas City, Kansas

Wednesday, November 4, 2015



KCK Fire Department surrounded in a sea of blue during the Royals' parade and celebration at Union Station in Kansas City Missouri on Tuesday.

THIS WEEK IN KANSAS CITY



Board of Commissioners



Unified Government

ENews Source Newsletter

Unified Government of Wyandotte County/Kansas City, Kansas

Application for CDBG Funding

The Unified Government of Wyandotte County/Kansas City, Kansas is accepting applications for Community Development Block Grant (CDBG) funding starting immediately until 12:00 Noon Friday, December 11th, 2015. The 2016 Application for CDBG Funding will be available online at www.wycokck.org or by calling (913)

UG Open Data



wycokck.opendata.com

Stay Connected



to your local government

This Weeks City/County Headlines

[UG Open Data](#)

[Watch Meetings on UGTV](#)

[Improving the Quality of Lives in KCK](#)

[APPLICATION FOR CDBG FUNDING](#)

[Mahindra USA Donates Tractor to KCK](#)

[Electronics Recycling Event](#)

[YOU'RE INVITED! OPEN HOUSE](#)

[Caring For the Caregiver](#)

[UG Road Closures](#)

[Eastbound Central Avenue Bridge Over I-70 Repair Project](#)

[Daily Traffic Information](#)

Quick Links

[UG Website](#)

[Mayor/CEO](#)

[Board of Commissioners](#)

[Agendas and Minutes](#)

[Public Meetings](#)

[Departments](#)

[Municipal Court](#)

[Online Services](#)

Watch meetings on



Channel 2
Time Warner Cable

573-5100 or at the Community Development Department office.

The Unified Government requests applications for the following CDBG eligible activities found on page 3 of the application: Section B - Public Facilities & Improvements; Section C - Renovation/Acquisition of Existing Housing; and Section D - Economic Development.

Application deadline is 12:00 Noon, Friday December 11, 2015. Applications and supplemental documents may be submitted via email to jcalderon@wycokckc.org, however, pages 19 and 20 with original signatures, must be received via US Postal Service or hand delivered no later than 12:00 Noon, Friday December 11, 2015 to Community Development Department, 701 North 7th Street, Room 823, Kansas City, KS 66101.

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Mahindra USA Donates Tractor to KCK

The City of Kansas City, Kansas and the City of Kansas City Missouri were recipients of a brand new tractor donated to the municipalities from Mahindra USA, Inc.

**Channel 141
Google Fiber**

**Channel 25
Wow! TV**

Target of the Month



Please click on the target to access information on the Code Enforcement for the month. You may contact Code Enforcement.

**Monday through Friday
8:00 a.m. to 5:00 p.m.
913-573-8600**



or

text your email address to
22828 to get started

Trash Collection Schedule



Improving the Quality of Lives in
Kansas City, Kansas

Mahindra is a manufacturer of tractors and other industrial equipment. The company held their 2015 National Dealer meeting in Kansas City, Missouri last week. Mayor Pro-Tem Harold Walker attended their opening ceremonies Thursday morning to accept this gift on behalf of the Unified Government. The new tractor will be a great addition to the Parks and Recreation Department.

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Electronics Recycling Event

Residents can participate in an electronics recycling event that is being held on Saturday, November 14, 2015 from 9 a.m. to 1 p.m. at Heartland Habitat for Humanity's ReStore located at 1270 Merriam Lane in Kansas City, Kansas.

The event is for residents only; it is not for businesses, governments, or institutions. Items that you can bring to the event include computers, printers, monitors, scanners, peripherals, old T.V. sets, old cell phones, DVD players, fax machines, personal copiers, stereos, radios, tape players, turn tables, PDAs, Game Boys, VCRs, and cameras. There is a limit of 10 items per car that will be accepted.

Although the event is scheduled from 9 a.m. to 1 p.m. on Saturday, November 14th; please be aware that if participation is greater than expected the hours of operation could be cut back. No items will be accepted prior to or after this time period. This event is open to the public of the metropolitan area and there is not a charge for residents.

Partners of the event include Heartland Habitat for Humanity ReStore; Federal Prison Industries Inc. (UNICOR); the Unified Government of Wyandotte County/Kansas City, Kansas; Phi Theta Kappa at Kansas City Kansas Community College; and Operation Brightside Inc.

Heartland Habitat for Humanity's ReStore is an environmentally friendly retail outlet located in Kansas

City, Kansas where quality new and used surplus building materials are re-channeled, priced, and resold to the public at 20% to 80% off retail. All items sold by ReStore are donated building materials, furniture, display furniture, and fixtures. Proceeds made from ReStore go back to helping to build more new homes for Heartland Habitat for Humanity here locally.

For more information about the Electronics Recycling Event you can contact Habitat for Humanity at 913-342-3047 or ReStore at 913-648-6001.

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You're Invited!

Open House

Come provide input to the designers who are working to improve safety for motorists, bicyclists and pedestrians along this three mile segment of roadway - Leavenworth Road (63rd Street - 38th Street) Refreshments will be provided!

LEAVENWORTH ROAD MODERNIZATION

THURSDAY

NOVEMBER 5

5:30 - 7:00 PM

Christ the King Church

3024 N. 53rd Street

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Caring for the Caregiver

Do you know a caregiver? Do you give assistance to people who are sick, injured, mentally or physically disabled, or elderly and fragile?

In celebration of National Caregiver month, The Wyandotte/Leavenworth Area Agency on Aging is seeking Caregivers to participate in a Caregiver training. The training will take place on Thursday, November 19, 2015

from 10:00 am to 2:00 pm in the Community Room located at 849 North 47th Suite B. This 4-hour training is designed to ease the life of a caregiver.

Through the training you will: enhance the relationship between the caregiver and the one you are caring for, strengthen communication, learn effective tools to relieve stress, and reinforce proper safety habits.

Nancy Reagan once stated, "There are only four kinds of people in the world- those who have been caregivers, those who are caregivers, those who will be caregivers and those who will need caregivers."

Caregiving may not always be the job we dream of as child and training may not be provided prior to starting this role. The Wyandotte/Leavenworth Area Agency on Aging is well aware of this and have decided to establish an interactive program that will assist the caregiver. The training focuses on a person-centered care approach conducted in a supportive and non-judgmental environment. The goals of the training includes: Provide knowledge about aging and the disabled, offer access to available resources, and provide support to caregivers. According to The National Alliance for Caregiving and the AARP, there are 65.7 million caregivers in the United States alone. It is critical to establish a training to help our community aid those who may need additional assistance.



For more information please contact Jessica Harper at the Wyandotte/Leavenworth Area Agency on Aging at (913) 573-8549. Jharper@wycokck.org .

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Meetings and Events



Board of Commissioners

Commission Meeting
Thursday, November 12, 2015
7:00 pm
Commission Chamber

Planning and Zoning
Thursday, December 10, 2015
7:00 p.m.
Commission Chamber



Standing Committee

N/CD and ED/F
November 9, 2015

PW/S and AH/S
November 30, 2015

Neighborhood/Community
Development
Economic Development/Finance
Public Works/Safety
Administration/Human Services

Meetings start at 5:00 pm
Standing Committee
Meetings



Additional Information

Mayor's Listening Tour
Bonner Springs High School
5:30 pm
November 17, 2015

Sheriff Graduation
Wednesday, 5:30 pm
November 18, 2015

Police Awards Ceremony
November 19, 2015

Mayor's Holiday Tree Lighting
November 20, 2015



Unified Government Road Closures and Announcements

No UG Road Closures to Report this Week

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KDOT Road Closures and Announcements



Eastbound Central Avenue Bridge Over I-70 Repair Project

EXPECT DELAYS! 24/7 LANE CLOSURE: Eastbound Central Avenue bridge over I-70 will be reduced to **ONE OPEN LANE** for repair work, 24/7 round the clock, beginning at **9 a.m. on Tuesday, October 27 through Friday, November 10**, weather permitting in Kansas City, KS (Wyandotte County). All adjacent interchange ramps will remain open.

Project work includes expansion joint repairs, deck patching, repair of bridge rail barrier and repair work underneath the bridge deck. The project contractor, PCI (Minneapolis, MN) will complete repairs on the bridge deck and then suspend the project for the winter season. Then in Spring 2016, the contractor will resume work and complete final repairs underneath the bridge with no planned impacts to traffic.

Traffic will be directed through the project work zone via cones and signage. Drivers should expect some delays and should allow extra time for their daily commutes.

Updated daily traffic information for this bridge repair project and for the entire Kansas City Metro Area can be viewed online at: www.ksdot.org/kcmetro/laneclose.asp.

The Kansas Department of Transportation urges all motorists to be alert, obey the warning signs, and "Give 'Em a Brake!" when approaching and driving through the project work zone.

Overall project work is scheduled to be completed by June 2016, weather permitting. (KDOT Project #70-105 KA-3997-01)

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Daily Traffic Information

Updated daily traffic information for KDOT Wyandotte County projects and for the entire Kansas City Metro Area can be viewed online at: www.ksdot.org/kcmetro/laneclose.asp.

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Rapid removal with [SafeUnsubscribe™](#) | [About our service provider.](#)



Unified Government of WyCo/KCK | 701 N. 7th St | Kansas City | KS | 66101

UG Stormwater Outreach Survey- 2015

Stormwater Outreach Survey

Please fill out the following questions by December 31, 2015 concerning Stormwater (rainwater) to help us improve our outreach and education efforts.

1. Have you received information from the UG concerning ways that you can help improve stormwater (rainwater) quality?

Yes

No

2. If "yes", please mark all that apply.

BPU Bill Insert

Brochure

E-News

Liveable Neighborhoods

Other (please specify)

3. Have you attended a presentation in the past year on stormwater quality and pollution prevention?

Yes

No

4. Do you think that there is a problem with litter and trash in WYCO?

Yes

No

If yes, where is it a problem (streets, sidewalks, yards, etc.)

5. In the past year, have you changed some of your behaviors or practices in order to reduce pollutants into our stormwater system?

Yes

No

If yes, please describe

6. What is the best way for you to obtain or receive stormwater related outreach and educational information?

Newsletter

Email

Website

Brochure/Flier

UG TV

Other (please specify)

Done

Powered by



See how easy it is to [create a survey](#).

**APPENDIX A.6 Operation Brightside & Blue River Watershed Association Annual
Report**

Operation Brightside, Inc.

2015 Summary of Activities

Great American Cleanup

The Great American Cleanup is coordinated by Keep America Beautiful nationally. Operation Brightside, Inc. is a local affiliate of KAB. We organized activities locally for the Great American Cleanup.

The Great American Cleanup is the nation's largest organized annual cleanup, beautification and community improvement program. Millions of volunteers nationwide take part annually in this program, from coast-to-coast, March through June. The Great American Cleanup is a platform for a wide range of initiatives embraced by Keep America Beautiful, such as: litter cleanups, litter prevention education, recycling drives, graffiti removal, beautification and community improvement projects, park renewals, clothes collection programs, river, lake and seashore cleanups.

Supplies Operation Brightside, Inc. received for the Great American Cleanup included 7,800 GLAD trash bags, 10 large banners, and 29 cases of water. Supplies were given to those neighborhood groups who requested them. As well as giving out Keep America Beautiful GLAD bags, we also distributed some of the 20,000 trash bags we received from the Unified Government this year that have a stormwater message of not littering to volunteers. 2015 results included:

- There were 39 different cleanups.
- We estimated that 1,138 volunteers contributed 3,521 hours of service for an estimated \$81,229.47 of in-kind service value thru various cleanups.
- We had 55 partners in our 2015 Great American Cleanups: 2 civic organizations; 2 environmental groups; 11 youth groups; 2 business groups; 5 businesses; 1 government; and 32 neighborhood organizations.
- We estimated that 45.57 tons of litter and debris was cleaned during the Great American Cleanup.
- We estimated that 137 miles of streets were cleaned of litter.
- An estimated 2 miles of rivers, lakes, stream, and shoreline were cleaned up of litter.
- An estimated 13 acres of park land were cleaned.
- An estimated 4 miles of trails were cleaned.
- Approximately 1 mile of street was cleaned of dirt and debris that could have went down a storm drain.
- A local radio station promoted one of our nonprofit organizations efforts.

2015 Litter Free Events.

Unified Government storm water message bags were given out for four special events that were litter free events. Water and Unified Government trash bags with a no littering message on them were given out to be used for cleanup at the special events. Wayne Hubbard, host of the TV Show Urban American Outdoors, hosted one of these litter free events at their fishing derby at the KCKCC lake area. The Rosedale Development Association hosted a bicycle safety event. The Leavenworth Road Association also hosted a litter free event at their fishing derby held at the Wyandotte County Lake. The Kiwanis West Club hosted a bicycle safety event. An estimated 1,140 youths participated in these four events with an estimated 1,175 adults with them.

Litter Index Results for 2015

As a local affiliate of Keep America Beautiful Inc. Operation Brightside Inc. conducts an annual Litter Index with a rating schedule as follows:

1. **“No Litter”** Virtually no litter can be observed in the sub-area being scored. The scorer has to look hard to see any litter, perhaps a very occasional litter item or two in a city block, or equivalent. Any litter seen could be quickly collected by one individual. The entire sub-area has a generally neat and tidy appearance; nothing grabs the eye as being littered or messy.

2. **“Slightly Littered”**. Upon careful inspection, a small amount of litter is obvious to the scorer. One or two individuals could collect the litter in the sub-area in a short period of time. While the sub-area has a small amount of litter, the eye is not continually grabbed by litter items.

3. **“Littered”**. Visible litter can readily be seen throughout the sub-area, likely requiring an organized effort for removal. This area is littered and clearly needs to be addressed.

4. **“Extremely Littered”**. A continuous amount of litter level is one of the first things noticed about the sub-area. Major illegal dumpsites might be seen in the sub-area, requiring equipment and/or extra manpower for removal. There is a strong impression of a lack of concern about litter in the sub-area.

<u>Areas Surveyed:</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Co. Line to I-35 & State Line to I-35	2.0	1.5	2.2	1.5	2.0
I-635 to 59 th Street & County Line Rd. to the RR	2.1	1.5	1.8	2.1	1.9
I-70 to Leavenworth Rd. & I-635 to 72 nd Street.	2.3	1.8	1.9	1.4	2.0
7 th Street to I-635 & State to Quindaro	2.3	2.3	2.0	2.2	2.1
I-70 to State & from 5 th to I-635.	2.3	2.3	2.2	2.2	2.0
I-70 to Kaw Dr. from 59 th to 94 th Street	1.9	2.0	2.0	1.5	2.0
State to Leavenworth from 78 th to 94 th Street	1.8	1.9	1.5	1.3	1.9
Hutton Rd. to K-7 Parallel north to Co. Line	<u>1.4</u>	<u>1.6</u>	<u>1.5</u>	<u>1.3</u>	<u>1.0</u>
Annual Average:	2.01	1.86	1.89	1.69	1.86

Past Index Averages: 2.3 in 2003; 2.2 in 2004; 2.25 in 2005; 2.05 in 2006; 1.94 in 2007; 2.05 in 2008; 1.98 in 2009; and 2.18 for 2010.

Diversion of Electronic Waste thru E-Recycling Events.

There were 2 electronics recycling events held in Wyandotte County in 2015. The Unified Government was involved with programming of both electronics recycling events.

In celebrating Earth Day in 2015, in partnership with the E.P.A., Federal Prison Industries Inc. (UNICOR); the B.P.U.; Operation Brightside Inc.; the Unified Government participated with an annual electronic collection day that targeted Federal Government Agencies and its employees, the Unified Government and its employees, and the Board of Public Utilities and its employees. On April 22, 2015; 137 vehicles dropped off 24,518 pounds or 12.25 tons of electronics.

In celebration of America Recycles Day, Heartland Habitat for Humanity Restore; Federal Prison Industries Inc. (UNICOR); the Unified Government; Phi Theta Kappa from KCKCC, and Operation Brightside Inc. with an annual electronic collection day event. On November 14, 2015, 120 vehicles dropped off 17,332 pounds or 8.7 tons of electronics.

2015 Events Held	Tonnage Electronics	# of Vehicles
Earth Day Event	12.25	137
America Recycles Day	8.7	120
2015 Totals	20.95	257

Electronics accepted at these events have included the following: computers, printers, scanners, old computer monitors, old TV sets, old cell phones, DVD players, fax machines, stereos, radios, tape players, PDAs, Game Boys, VCRs, cameras, and other electronic items.

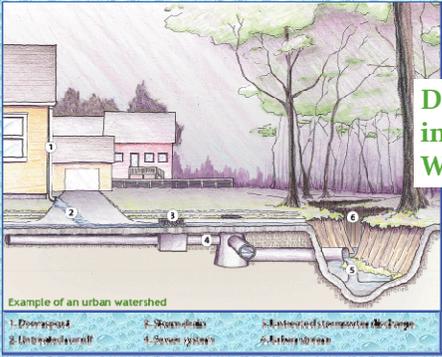
Since 2008, there have been 116.2 tons of electronics gathered in annual Earth Day events. Since 2007, there have been 103.8 tons of electronics gathered in annual America Recycles Day Events. In addition, in 2012 the KCK Public Schools Foundation collected 8 tons. In total with these events, there have been 228 tons of electronics recycled.

UG Stormwater Management Program

How can you help with Water Quality?

Sarah Fjell, P.E. Stormwater Engineer April 8, 2015

URBAN WATERSHED



Do you live in a Watershed?

Example of an urban watershed

1. Downspout	2. Storm drain	3. Untreated stormwater discharge
4. Untreated runoff	5. Storm system	6. Polluted runoff

Stormwater Runoff



- Water falls as rain, snow, or ice. Most seeps into ground.
- If ground is saturated, frozen, or has paved surfaces, water flows & is called stormwater runoff.

Stormwater Flows over surfaces such as roads, driveways and parking lots.

Where does Stormwater Go?



- Stormwater flows to storm drains along streets.
- It may carry soil, pet waste, oil, pesticides, & other pollutants with it.
- This polluted runoff goes to streams & lakes untreated.

Stormwater goes into storm drains and pollutants flow untreated into local streams, rivers & lakes.

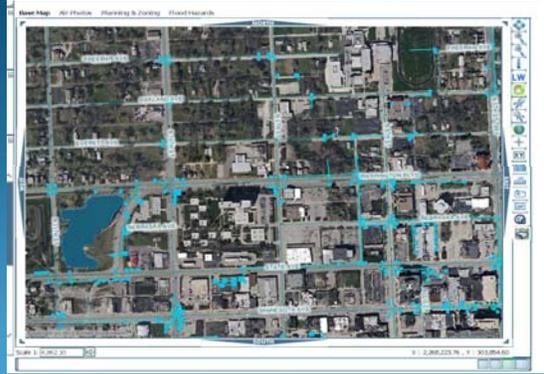
Storm Drainage System



- Pipes & Inlets (carries the water underground)
- Ditches & Streams (carries the water above ground)



Storm Drainage System



Pollutants of Concern

- Sediment
- Yard Waste- Leaves and Grass Clippings
- Oil and Gas
- Lawn Chemicals-Fertilizers and Pesticides
- Pet Waste
- Litter and Trash

Sediment Pollution



- #1 Stormwater Pollutant
- Degrades Water Quality
- Can cause flooding

Oil, Gas, and Auto Fluids

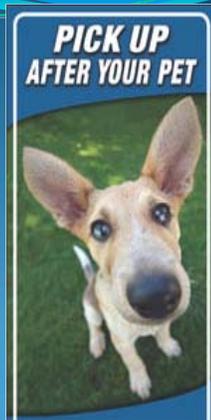


Lawn Chemical Pollution



- Fertilizers
- Herbicides
- Insecticides.

Pet Waste Pollution



Litter and Trash Pollution



Yard Waste Pollution

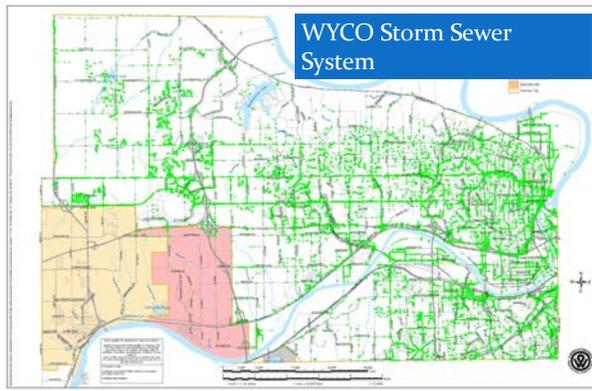


GRASS CLIPPINGS AND LEAVES

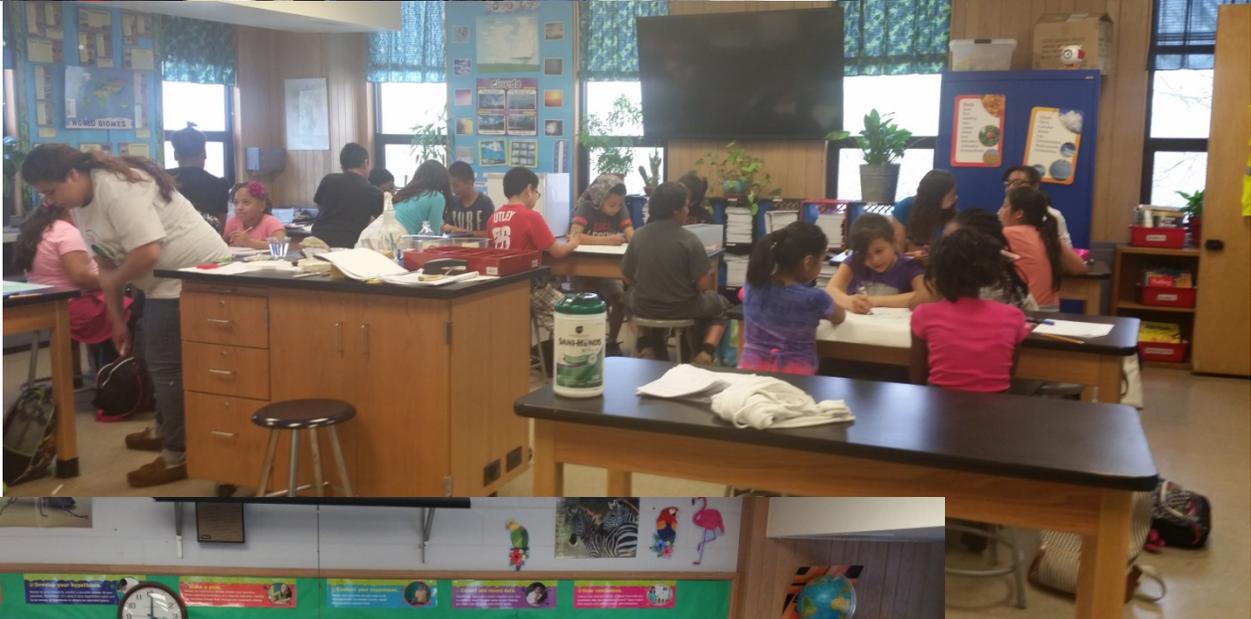
Inlet Stenciling Program



WYCO Storm Sewer System



**Douglas Elementary- ECO Kids
Inlet Stenciling with UG
April 8, 2015**



Are you a Friend to the Environment?



The UG is increasing its efforts in keeping pollutants out of our streams, rivers and lakes...and we need your help! It will take a joint effort from UG staff, contractors, WYCO residents and business owners to comply with regulations. The following are tips and guidelines on how you can help as a UG employee and resident of WYCO. Together we can help keep pollutants out of our streams, rivers, and lakes; providing a cleaner county for all! Let's all be "Good Housekeepers" for Stormwater!!

For more information, please visit our webpage at www.wycokck.org/pw. To report stormwater pollution, call 913.573.5700 or 913.573.5535 (after hours)

Office Chemicals

- *Cleaning solutions should not be dumped on the grass, parking lot, or down the storm drain. Follow instructions on how to properly dispose of chemicals.
- *Clean up any chemical or hazardous material spills before they can wash down our inlets!



Litter & Trash

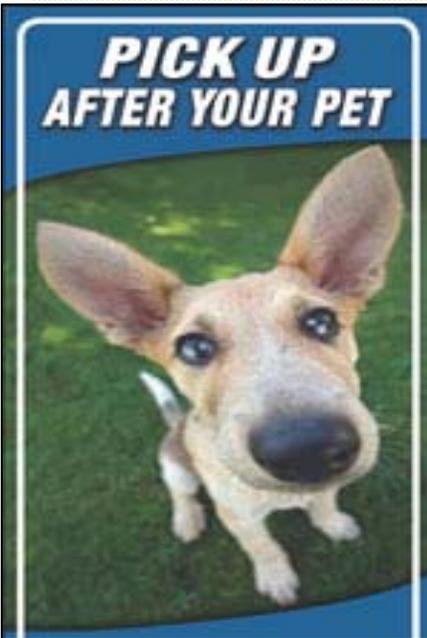
- *Litter and trash in our streets and yards can end up in our streams and rivers
- *Put all trash & litter in a wastebasket or trash bag.
- *Do not dump trash or trash bags into storm inlets, rivers, and streams.



PICK UP AFTER YOUR PET

Pet Waste

- *Pick-up after your dog and throw into trash
- *Pet waste left on yards, streets, and sidewalks can be carried to the stream during a storm event. Pet waste contains bacteria that pollutes our water.



Yard Waste & Chemicals

- *Do not put leaves or grass clippings down the storm sewer inlet
- *Use lawn waste bags, compost or mulch leaves and grass
- *Do not over apply pesticides, herbicides and fertilizers. Excess chemicals will runoff yard and end up in the stream. Less is best when it comes to yard chemical application.

Oils, Gas and Auto Fluids

- *Do not dump oil, gas, and auto fluids in storm inlets, or directly on the street, driveways or sidewalk





UG Inlet Stenciling Program



- Volunteer to mark inlets in your neighborhood or community
- Gather your friends and neighbors to help promote stormwater pollution prevention
- UG will supply the inlet markers, map of the stormwater system, and construction adhesive
- To sign up or for more information, visit www.wycokck.org/pw or contact Sarah at sfjell@wycokck.org or 913.573.5724





How can you help with....

Stormwater Quality in WYCO/KCK

Single Resident BMPs



Rain Barrels

- *Collect rainwater to use for irrigation- water your garden, lawn and flowers
- *Diverts water away from your house
- *Cuts down on your water consumption- saves \$!

Rain Gardens

- *Designed to collect rainwater in low lying areas
- *Native plants and flowers help infiltrate water and reduce stormwater runoff
- *Little to no irrigation needed- Low maintenance!
- *Attract butterflies and birds- colorful flowers and green plants are attractive to your yard!

Lawn Care

- *Do not put leaves or grass clippings down the storm sewer inlet
- *Mow grass at the highest setting and leave grass clippings in place
- *Only water when necessary- Water in the morning to avoid evaporation.
- *Do not over apply pesticides, herbicides and fertilizers. Excess chemicals will runoff yard and end up in the stream. Less is best when it comes to yard chemical application.



For More Information:

<http://www.wyandotte.ksu.edu/>

<https://www.bridgingthegap.org/lawn-garden/rain-gardens/>

www.wycokck.org/pw.



January 25, 2016

The Blue River Watershed Association (BRWA) is a bi-state, nonprofit, water quality education organization whose mission is to educate and engage Kansas City citizens to restore and protect watersheds in the metro area. The Association provides environmental education and outreach programs, demonstration projects, and strategic partnerships with key stakeholders. By collaborating with the Unified Government of Wyandotte County, Blue River Watershed Association provided opportunities for Wyandotte County residents to gain a better understanding of stormwater and water quality issues and to promote community ownership of stormwater quality problems and solutions.

The Unified Government of Wyandotte County contracted with Blue River Watershed Association for \$21,020 in order to support the programs listed below.

Contracted Services:

BRWA collaborated with the Unified Government of Wyandotte County to implement its innovative and hands-on programs. During 2015, The Association implemented its *T.R.U.E. Blue (Teaching Rivers in an Urban Environment)* curriculum to **17 classes in Wyandotte County. Twelve of these classes were with Turner Middle School with 336 students participating; four classes were with Holy Name Catholic School with 60 students participating; and one class with Douglass Elementary School after-school program with 30 students participating for a total of 426 students participating.**

With the support of the Unified Government of Wyandotte County in 2014, Blue River Watershed Association was able to continue the overwhelmingly successful, "*Eco-Kids Club*" as the Youth Leaders of Wyandotte High School act as mentors and give hands-on presentations to Douglass Elementary School students in their after-school program. One of the biggest outcomes of this project was the younger students reporting a greater feeling of community and better understanding of stormwater runoff.

This year, an art contest was held amongst the elementary students for a club T-Shirt design. Students enthusiastically contributed their works of art and then voted as a class for the winning design. As part of this contract, Wyandotte County sponsored the *Eco-Kids Club* T-Shirts, which the students and instructors eagerly wore each week!

BRWA coordinates this project, trained the youth, and brought the groups together for fun at Big 11 Lake while both student groups learned the importance of stormwater runoff, water pollution, and what people can do to change the outcomes on nearby creeks, streams, and bodies of water.

BRWA trained Wyandotte High School students to lead eight water quality lessons with elementary students in after-school programs at Douglass Elementary School. Each lesson conducted by the high school students, included an indoor instruction component as well as an outdoor activity at Big 11 Lake. The Association mentored and monitored the high school students.

For eight weeks, second, third, and fourth grade students from Douglass Elementary met after-school on Wednesday afternoons for environmental education after-school programming. A total of 61 community adults participated in these programs, while 219 elementary students were engaged and participated. (Participating adults includes 15 employees from the GM Fairfax plant that volunteered their time to assist with the Building Bluebird House session and water quality monitoring for TRUE Blue.) The elementary teacher reports a continued increase in an understanding of stormwater runoff, science literacy, group interaction, and a sense of community in the participating students that had not been realized before the program began. Comments from students to BRWA staff reveal that these students have indeed become Eco-Kids as they instruct their parents, siblings, and other family, friends, and neighbors on tips for a healthy watershed.

In total, twenty-five classes engaged 449 community adults, high school students, and elementary students in experiential environmental education programming of Blue River Watershed Association.

APPENDIX A.7 Stormwater Quality Education Grant Program



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS

Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM

APPLICATION PACKET

A. INTRODUCTION

The Unified Government of Wyandotte County/Kansas City, Kansas (UG) has established a Stormwater Quality Education Grant Program to help fund educational projects and activities related to stormwater quality. The Grant Program is funded by the UG's Stormwater Utility Fund and is administered by the Public Works Department.

The main goal of the Grant Program is the improvement of surface water quality in Wyandotte County. To accomplish this goal, this program has been developed to provide financial assistance for programs, projects, or activities which provide public or private education related to stormwater quality. Because runoff reaches the water resources that people and wildlife depend on, it is important to maintain or improve the quality of water in our local streams and lakes.

The UG will award up to \$30,000 annually, with successful applicants receiving grants of up to \$5,000 per project. Grants are awarded on a competitive grant application process. Each grant application will be reviewed by a selection committee for eligibility and merit, according to the procedures and criteria set forth in the guidelines outlined in this packet. The selection committee will make recommendations to the Public Works Director for final determination of all grant applications. All approved projects will receive funding by means of an executed Grant Award Agreement between the UG and the Applicant laying out the approved project elements, eligible expenses, and terms of grant implementation.

This packet covers the information needed to complete the application, and includes the following sections:

- Eligibility Requirements
- Project Guidelines
- Project Funding
- Project Reporting
- Project Selection and Grant Award Process
- Application Form

Please direct all questions to the Grant Program Administrator – Sarah Fjell, at the UG’s Public Works Department, by phone at 913-573-5700, by email at sfjell@wycokck.org, or by mail to 701 N. 7th Street, Kansas City, Kansas 66101.

B. ELIGIBILITY REQUIREMENTS

What types of programs or projects are eligible for funding under the Grant Program?

There are two general types of projects or programs eligible for the program:

- **Public Education and Outreach.** Programs designed to inform citizens, schools, and businesses about the impact of stormwater runoff on surface-water quality and actions to reduce stormwater pollution. Such programs could include, but are not limited to:
 - 1) Public education and outreach to encourage behavior change leading to the reduction of pollution caused by stormwater runoff, such as, but not limited to, lawn and garden care, rain gardens and rain barrels, proper disposal of household hazardous waste, pet waste, and litter;
 - 2) Public education and outreach for school-age children that could include the development and/or implementation of programming for watershed (drainage area) and water-quality education, water-quality monitoring, or other stormwater related issues.
 - 3) Public education and outreach that address issues related to human health and safety during and after flooding events (such as large levels of bacteria in surface water after a rain event).

- **Public Participation and Involvement.** Programs that encourage the participation and involvement of Wyandotte County residents and businesses to reduce polluted stormwater runoff. Such activities could include, but are not limited to:
 - 1) Organization and implementation of one time public participation and involvement initiatives, such as, but not limited to, community clean-ups along local streams, and lakes, community and/or school-based water festivals, construction and planting of rain gardens, rain barrel building workshops, and storm drain stenciling activities.
 - 2) Organization and ongoing support of citizen-based or school programs such as “stream teams” and “Adopt a stream” initiatives.

Who can apply for funding?

The UG will accept applications from schools, entities legally incorporated and/or organized as a corporation, government entities, associations, not-for-profit businesses/organizations, community groups, service or youth clubs, or student groups.

Who is not eligible for funding?

Grants will not be awarded to individuals, not-for-profit businesses/organizations, or public agencies who propose projects necessary to comply with federal, state, or local regulations. Grant funds cannot be used to develop or implement stormwater pollution prevention plans, monitoring, or other activities required by a National Pollutant Discharge Elimination System stormwater permit.

Are there other eligibility requirements?

- Projects or programs must be located within and provide a direct benefit or service to the residents and businesses in Wyandotte County.
- Applicant is responsible for following all safety precautions.
- The maximum allowable grant request for this program is \$5,000. Grant amounts are not-to-exceed amounts.

C. PROGRAM GUIDELINES

If selected for funding, projects or programs must meet the following general guidelines:

- A detailed project plan and budget for all approved expenses shall be prepared and included in the Grant Award Agreement.
- Grant monies will be distributed in accordance with the terms set forth in the Grant Award Agreement.
- Any expenses not fully documented may be denied for reimbursement. The UG may conduct periodic audits of grant expenses to help ensure grant funds are being utilized appropriately and as reported.
- All projects must be completed in accordance with applicable local, state and federal law, and all required permits, agreements, permissions, approval, etc. must be obtained by the Applicant or their representatives.
- All projects must be completed per the plan outlined in the Grant Award Agreement. The Public Works Director must approve, in writing, any proposed changes to the plan once a grant is awarded.
- All projects must be completed within the time frame specified in the Grant Award Agreement. The Program Administrator must approve, in writing, any requested time extensions. Typical timelines for education projects or programs are 6 to 9 months.
- The UG reserves the right to withhold funds or revoke awards if required reporting is not filed in a timely manner or if project requirements and objectives set out in the Grant Award Agreement are not being met.

D. PROGRAM FUNDING

The grant program is funded at \$30,000 annually. Project funding varies, but will not exceed \$5,000 per project; awards may range from \$2,000 to \$3,000. The actual number of grants awarded will depend on the number of successful applicants and the amount of funding granted to each applicant.

What types of expenses are eligible for grant reimbursement?

- Eligible expenses must be project-specific and necessary for proper and complete implementation of the stormwater-related components of the project in the categories of:
 - Materials, Equipment and Supplies
 - Consulting Fees
 - Personnel
 - Other Project Specific Costs
- Project specific personnel costs and stipends (i.e. teacher training, etc.) may be eligible. Adequate documentation of all billed hours, including copies of employee timesheets, hourly payroll rates, and description of work done, will be required prior to acceptance of these types of costs.
- Indirect costs are typically not eligible. Expenses are to be broken down into specific cost items. However, for institutions of higher education and private not-for-profit organizations which rely on indirect costs for budgeting purposes, indirect costs can be utilized by may not exceed 20%.
- All approved expenses will be mutually agreed upon and detailed in the project budget in the Grant Award Agreement prior to start of the project.

What types of expenses are not eligible for grant reimbursement?

- Cost associated with work paid prior to grant award.
- Costs associated with work already required of the applicant to meet federal, state, or local requirements.
- Wages or salaries for research or manual labor
- Administrative overhead
- Personal food, refreshments and mileage
- Any permit fees required to implement the project.

Other restrictions may apply – if you have questions about eligibility of expenses, please contact the Grant Program Administrator.

E. PROJECT REPORTING

Is a project report required for this grant?

Eighty percent (80%) of the grant award will be disbursed at time of award. The remaining 20% will be distributed after receipt of supporting documentation as listed below. The UG will provide the appropriate forms and report format with the Grant Award Agreement. Within 30 days of the completion of the project elements and invoicing, a Project Narrative Report will be

required to be submitted summarizing all the project tasks and elements are completed and costs accounted for.

Each applicant is required to submit the following in both electronic and hard copy formats:

- A **Project Narrative Report** at the end of the project, which must include a project description and (at a minimum) responses to the questions below.
 - a. What was learned from this project?
 - b. If you could repeat the project, what would you do differently and why?
 - c. Did you meet your expectations?
 - d. Did you encounter any challenges or problems during your project? If so, please explain.
 - e. How many people were involved or reached?
 - f. Identify members of your organization who will be key participants in establishing/maintaining the project, if applicable.
 - g. Identify how this project will provide ongoing value to the target audience or participants.
- **Attachments** to include, but are not limited to:
 - a. A detailed report of expenses including copies of receipts.
 - b. Samples of project materials, handouts, or work.
 - c. Photos or video of project activities on CD/DVD.

F. PROJECT SELECTION AND GRANT AWARD PROCESS

This grant program is competitive. Therefore, Applicants or applications not meeting the eligibility requirements will not be considered. Projects will be ranked and selected for funding through a review process administered by the UG Stormwater Grant Program Selection Committee. As one part of this review, proposed projects will be evaluated using a scoring system based upon the following criteria (100 points possible):

- 1) Education about Stormwater Pollution Prevention (30 Points):**
 - a) Does the project spread a message about reducing stormwater pollution?
 - b) How well does the project encourage reducing stormwater pollution?
 - c) Will innovative approaches to improving water quality be used?
- 2) Clarity of Project Description (30 Points):**
 - a) Is the project clearly described?
 - b) Are the proposed tasks reasonable?
 - c) Are the tasks clearly defined?
 - d) Is the schedule of work/timeline complete?
 - e) Does the project include an assessment plan to measure effectiveness?
- 3) Budget (20 Points):**
 - a) Does the project achieve its stated goals in a cost-effective manner?
 - b) Could the project or activity be used again or continued in the future?
- 4) Publicity/Community Outreach (20 Points):**

- a) How many people will be involved or reached?
- b) How will the project be publicized?

The Stormwater Grant Program Selection Committee will evaluate the applications and make recommendations for funding to the Public Works Director, or his designee, based on the extent to which:

- The proposed project meets one or more grant objectives, and the UG's Stormwater Management Program goals (refer to Page 7 for the Stormwater Grant Project Objectives).
- The project description, tasks, anticipated results and schedule are clear and complete, and that the budget is detailed and appropriate.
- The applicant demonstrates the ability to coordinate, manage and complete the project.
- The project reaches the general public or specific groups thorough publicity, educational efforts, or participation.
- The project will result in or contribute to ongoing or long-term efforts and benefits.

The Director, or his designee, will review the grant applications, supporting information, and project scores, and the selection committee's recommendations, and authorize applications for funding consistent with the program's eligibility criteria. Successful applicants must sign a Grant Award Agreement which is submitted for final UG approval and execution.

G. SCHEDULE

- The application deadline is March 15, 2015.
- Awards to be announced week of March 30, 2015.
- Initial funds disbursed: First 80% by April 15, 2015.
- Projects completed by November 15, 2015.
- Final reports due by December 15, 2015, with remaining 20% grant disbursement.

H. APPLICATION PROCESS

For Fiscal Year 2015, the deadline for receipt of grant applications is March 15, 2015.

Applications must be postmarked by, or hand-delivered to the address below, by 5:00 p.m.

An application form is included with this packet. Please read the application carefully and complete the form with as much detail about your proposed project as possible. The Applicant must provide a proposed schedule and project budget (See examples on pages 7 & 8). Supplemental information can be attached to the application if it is helpful in describing the project.

A name for the Project Coordinator/Leader/Manager is required. Email will be the predominant means of communication, therefore, a working email address for the contact is strongly encouraged. The application form must be signed by a duly authorized official or designee from the applying organization. **Applications that are not complete may be disqualified.**

Submit five (5) hard copies of the application form and supporting information to:

Ms. Sarah Fjell, P.E.
 Stormwater Education Grant Program Administrator
 Public Works Department
 701 N. 7th Street
 Kansas City, Kansas 66101

STORMWATER GRANT PROGRAM OBJECTIVES

Applicants are encouraged to propose and implement projects which meet one or more of the following stormwater quality objectives:

- **Stormwater Quality Information and Education** – Inform and educate the general public, specific members of the community, or students about: a) local water resources, supplies and sources; b) water quality and pollution prevention; and c) urban stormwater runoff (where it goes, how it becomes polluted and how citizens can help keep it clean).
- **Household Hazardous Waste Information and Education** – Inform and educate the general public, specific members of the community, or students about: a) reducing household hazardous wastes through use of alternative practices or products; and b) proper use, storage and recycling or disposal of household hazardous wastes, including but not limited to motor oil, paint wastes, and garden/lawn chemicals.
- **Business and Industry Stormwater Pollution Prevention Assistance and Education** - Inform and educate the local businesses about: a) water quality and pollution prevention; b) compliance with stormwater quality regulations; c) awareness and prevention of illicit discharges; and c) urban stormwater runoff (where it goes, how it becomes polluted and how they can help keep it clean).
- **Environmental Restoration, Enhancement and Preservation** – Study, enhance, restore or preserve the quality of wetland, riparian (creek and river bank) and lake water bodies by: a) performing stream sampling and analysis of water samples; b) removal of litter and wastes; and c) planting appropriate trees and vegetation.

EXAMPLE PROJECT SCHEDULE TABLE

Activity	Schedule
Approved Grant Award Agreement/Notice to Proceed (NTP)	NTP (approx. March 30)
Event Planning	Within 1 month of NTP
Advertise for stream cleaning event/coordinate volunteers	2 months prior to event
Purchase trees, shrubs, mulch	1 week prior to event
Hold Stream Cleaning/Planting Event	July 2015
Advertise for Educational workshop	August 2015
Hold Educational workshop	September 2015
Provide Project Final Report to UG	30 Days after Project completion (by Nov. 2015)

EXAMPLE PROJECT BUDGET

Type of Expense	Participants	Item	Unit Price	Quantity	Total Expense
Project Element No. 1: Organization Adopt a Stream Cleaning and Tree Planting					
Personnel hours	Project Manager	Event Organizing (current payroll rate)	\$35.00/hr.	15	\$525.00
Supplies	Organization	Advertising (150 single page flyers – B&W)	\$.010/flyer	150	\$15.00
Supplies	Organization	Work Gloves	\$6.00 each	20	\$120.00
Supplies	Organization	Trash Bags	\$5.00/box	5	\$25.00
Rental Equipment	XYZ Rentals	Chain saw rental	\$50.00/day	1	\$50.00
Materials	Plant Nursery	10 (species) w/ rootball	\$70.00/tree	10	\$700.00
Materials	Plant Nursery	10 (species) shrub, 10 (species) shrub	\$35.00/shrub	20	\$700.00
Materials	Plant Nursery	Mulch (type)	\$4.00/bag	100	\$400.00
Mileage	Volunteers	RT mileage to haul trash to waste facility	\$0.56/mile	50	\$28.00
Project Element No. 2: Stormwater Pollution Prevention and Reduction Workshop for Local Businesses					
Personnel Hours	Project Manager	Event Organizing (current payroll rate)	\$35.00/hr.	10	\$350.00
Supplies	Organization	Advertising (150 single page flyers – color)	\$1.00/flyer	150	\$150.00
Consulting Fee	ABC Specialist	Honorarium for 3 hour workshop	\$300.00/event	1	\$300.00
				Total Project Budget:	\$3,363.00

END OF APPLICATION PACKET FOR STORMWATER QUALITY EDUCATION GRANT PROGRAM



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS
Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM
APPLICATION FORM

GRANT FISCAL YEAR: 2015 (January 1, 2015 – December 31, 2015)

APPLICATION DEADLINE: March 15, 2015

Please review the Stormwater Quality Education Grant Program Application Packet prior to filling out this application form. Please provide responses to all questions below. Provide as much detail as possible, including information the Applicant feels is pertinent and not asked below. Mail or hand deliver five (5) copies of the completed and signed form, and any supporting documentation to the address listed on Page 2.

Project Title: _____

Name of Organization: _____

Mailing Address: _____

Name of Primary Project Contact/Manager: _____

Daytime or Cell Phone Number: _____

Email Address: _____

Amount Requested: _\$ _____ Total Project Cost: _\$ _____

- 1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS** – Describe your group’s or organization’s purpose, history, and if it is a formal or informal organization. Who will participate in your project and in what capacity? What are the roles of the project manager/coordinator If you plan to involve volunteers, how will you recruit them and how many will be involved.
- 2. PROJECT DESCRIPTION AND OBJECTIVES** – Write a detailed description of the proposed project. Include a description of how your project will address any of the Clean Stormwater Grant Program Objectives identified in the Application Packet.
- 3. PROJECT LOCATION** – Explain where your project will be conducted. If necessary, attach a map to the application. If the project will be conducted outside of Wyandotte County, then describe the direct benefits provided by the project to the residents of the County.

4. **EVALUATION AND CONTINUATION** – How will you evaluate the success of your project? How will the project continue to support on-going or long-term activities and benefits?
5. **BUDGET AND SCHEDULE** – Attach a preliminary schedule for project implementation following the Example in the Application Packet. Submit a preliminary project budget following the Example listed in the Application Packet.
6. **SUPPORTING DOCUMENTATION** – Include with the application any additional information, letters of support from partners, etc.

AUTHORIZING SIGNATURE

I certify that all information provided in this grant application is complete and true to the best of my knowledge, and that I am duly authorized to submit this application on behalf of my organization or group.

Signature of Applicant

Date

Printed Name of Applicant

Title of Applicant

**MAIL OR DELIVER FIVE (5) COPIES OF THIS FORM WITH ATTACHMENTS TO: Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator, Public Works Department, 701 N. 7th
Street, Kansas City, Kansas 66101**



Stormwater Quality Education Grant Program

2015

- ❖ Grant program has \$30,000, applicants can receive up to \$5,000 per project.
- ❖ Project to promote water quality education and outreach.
- ❖ Projects to be located within and provide direct benefit to residents and businesses in Wyandotte County.
- ❖ Program is intended to support local youth or community groups, schools, not-for profit organizations, neighborhood groups, or other eligible entities.
- ❖ Applications for grant due March 15, 2015. Awards will be announced April 2015.

For more information or to request an application packet, please contact:
Sarah Fjell White at sfjell@wycokck.org or 913.573.5724.

More information also can be found on our website: www.wycokck.org/pw



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS

Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM

PROPOSAL EVALUATION FORM

Organization: _____

Project Title: _____

Contact Name: _____

1. Education about Stormwater Pollution Prevention (30 Points): _____

Project identifies the overall approach to educate public individuals and/or private entities on stormwater quality issues within Wyandotte County.

- a. Does the project spread a message about reducing stormwater pollution?
- b. How well does the project encourage reducing stormwater pollution?
- c. Will innovative approaches to improving water quality be used?

2. Clarity of Project Description (30 Points): _____

Clear description of the project/activity and how the project or activity addresses one or more of the Grant Program Goals.

- a. Is the project clearly described?
- b. Are the proposed tasks reasonable?
- c. Are the tasks clearly defined?
- d. Is the schedule of work/timeline complete?
- e. Does the project include an assessment plan to measure effectiveness?

3. Budget (20 Points): _____

Financial needs of the project and the funds or resources necessary to complete the proposed project is clearly stated.

- a. Does the project achieve its stated goals in a cost-effective manner?
- b. Could the project or activity be used again or continued in the future?

4. Publicity/Community Outreach (20 Points): _____

Review number of individuals reached and duration of the event (i.e. hours, days, week).

- a. How many people will be involved or reached?
- b. How will the project be publicized?

Total Points: _____

Ranked by (number):

Date:



Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM

Summary of Results

Grant Application Name

Reviewer Number	Christ the King Parish/School Playground Cleanup	Discovering Stormwater Solutions	Kids About Water (KAW) Project	Water Is Life: Stormwater Quality Education
1				
2				
3				
4				
5				

Average Score



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS
Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM
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Project Title: Chrose the King Parish/School playground cleanup
Name of Organization: Kaughes of Columbus Council # 3768
Mailing Address: KoFC / Chris Hinkle 3501 N. 55th street, Lecks, 66104
Name of Primary Project Contact/Manager: Chris Hinkle, Master Gardner
Daytime or Cell Phone Number: 913-961-9056
Email Address: chinkle1@kc.rr.com
Amount Requested: \$ 5,000.⁰⁰ Total Project Cost: \$ 5,000.⁰⁰

- 1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS** – Describe your group's or organization's purpose, history, and if it is a formal or informal organization. Who will participate in your project and in what capacity? What are the roles of the project manager/coordinator If you plan to involve volunteers, how will you recruit them and how many will be involved.
- 2. PROJECT DESCRIPTION AND OBJECTIVES** – Write a detailed description of the proposed project. Include a description of how your project will address any of the Clean Stormwater Grant Program Objectives identified in the Application Packet.
- 3. PROJECT LOCATION** – Explain where your project will be conducted. If necessary, attach a map to the application. If the project will be conducted outside of Wyandotte County, then describe the direct benefits provided by the project to the residents of the County.

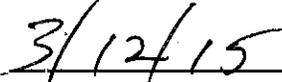
4. **EVALUATION AND CONTINUATION** – How will you evaluate the success of your project?
How will the project continue to support on-going or long-term activities and benefits?
5. **BUDGET AND SCHEDULE** – Attach a preliminary schedule for project implementation following the Example in the Application Packet. Submit a preliminary project budget following the Example listed in the Application Packet.
6. **SUPPORTING DOCUMENTATION** – Include with the application any additional information, letters of support from partners, etc.

AUTHORIZING SIGNATURE

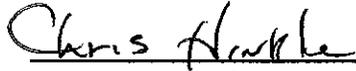
I certify that all information provided in this grant application is complete and true to the best of my knowledge, and that I am duly authorized to submit this application on behalf of my organization or group.



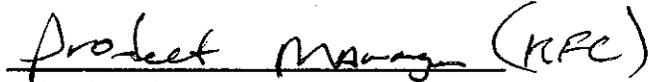
Signature of Applicant



Date



Printed Name of Applicant



Title of Applicant

MAIL OR DELIVER FIVE (5) COPIES OF THIS FORM WITH ATTACHMENTS TO: Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator, Public Works Department, 701 N. 7th
Street, Kansas City, Kansas 66101

**CHRIST THE KING PARISH KNIGHTS OF COLUMBUS COUNCIL 3768, IN COOPERATION WITH CHRIST THE KING
GRADE SCHOOL AND BOYS SCOUTS TROOP 160.**

A. INTRODUCTION

The purpose of this document is to **1)** communicate to the Unified Government of Wyandotte County/Kansas City, Kansas, Stormwater Quality Education Grant Program the proposal to utilize funds for the purpose of educating and demonstrating reducing storm water runoff into Leavenworth Road from the Christ the King School playgrounds area, a local Wyandotte County School. **2)** Identify sources of storm water within the property boundaries, and **3)** provide a comprehensive plan, materials list, budget guidelines.

B. GOALS OF THE STORM WATER REDUCTION PLAN

Reduce the volume of storm water run-off from the hard-surface asphaltic playground by removing approximately 15 by 20 square feet by 3 feet deep, or 1,200 cubic feet, installing 3 inch recycled/reclaimed rock. This area shall have 4 inch perforated drain tile installed and day lighting to adjacent street from this area. This area shall be covered with a permeable membrane designed to keep topsoil from infiltrating the filter rock area. The entire area shall be covered with 36 inches of topsoil and planted with grasses to provide erosion and sediment control for soil retention.

To provide an educational opportunity to Wyandotte County citizens, parishioners, scouters and students to learn about storm water issues, and allow them a hands on opportunity to help be a part of the solution by: installing rain barrels for the collection of rainwater to be used for watering plantings, and installing an earthen berm to slow the flow of water being discharged from the site. Parishioners, scouts, school children as well as their teachers, parents and of course are own beloved Knights of Columbus will broom sweep both the parking areas and playgrounds to remove all the sand and salt residue from the winter months, as well as rake the leaves from grass areas, and fences, and remove trash from the entire area. The success of the project will be immediately seen by our neighbors, as the clean new space will reduce the flood of water which typically enters the street from this area, and encourage the participants they can do this at their own homes as well!

C. THE MARIAN COUNCIL KNIGHTS OF COLUMBUS # 3768 HISTORY

The Christ the King Parish Knights of Columbus Marion Council #3768, is a Not for Profit Organization, and has been a part of the parish since 1947. Our main objective is to help individuals achieve a higher quality of life. Here in our home parish we conduct a monthly pancake breakfast fundraiser which we have donated the proceeds to individuals and youth clubs such as girl scouts, boy scouts, 4H, and church youth groups. This council started the now nationally recognized "tootsie roll drive", which benefits mentally challenged people nationwide. 4th Degree Knights of Columbus member, and K-State recognized "Master Gardner" Chris Hinkle will be the "Project Coordinator", and is in the process of scheduling a parish clean-up and storm water education party for early May 2015.

D. WHO WILL ATTEND/BENEFIT

This annual 1 day clean-up has gathered as many as 75 participants in the past, with support from our Pastor, Father Mark Meurtes. The parish bulletin, a weekly newsletter provides information about our events weeks in advance to help our projects be successful. We will be serving hot dogs, chips and soft drinks to our participants. We plan to include an article in the Leaven newspaper about the program and how it helps our community, reduces the risk of flooding, and helps keep our water clean. We will be inviting their staff and photographer to the event. Once we have confirmation of award of the grant funds, we will schedule our date, and provide a banner in this area as well, thanking the Unified Government for their help!

Thank you for your consideration. Please feel to call if you have questions or require additional information.

Sincerely,

Chris Hinkle

Project goal is to reduce storm water runoff from the CTK lower parking/playground area. The asphalt surface and roof hard surface is approximately 25,000 sf feet. This area collects 16,000 gallons of rainwater for every 1 inch of rainfall, and funnels it into the east bound lane of Leavenworth road (highlighted in red) . By removing the old driveway and installing a gravel pit covered with a grass berm, the runoff can be reduced, allowing for a slower discharge rate into the street, and therefore reducing the force of the water pushing rainwater in the gutter further into the street and traffic.

The storage garage currently does not have gutters. The plan includes installing gutters and downspouts into rain barrels, to be used for watering.



This gate is not used, and is the lowest point of the playground/parking lot, where all the balls roll, all the water runs into the street, as evident by the dried mud puddle in the middle of the sidewalk.

Proposal is to install a berm and fencing where existing gate is located. No work will be done on or near the sidewalk or street. A licensed contractor will perform the excavations and have all underground utilities located by calling 1-800 digsafe prior to working.



Estimated Budget Costs:

remove gate and post-\$250.00

remove asphalt, install 3 inch gravel, filter media, 36 inches of topsoil and sod \$1,800.00

Install new fences \$1,750.00

Install guttering, downspouts \$750.00

Provide hot dogs, chips and soft drinks (charcoal, ice etc) \$150.00

Install 3 rain barrels (Sam's Club \$100.00 each) \$300.00

All volunteers will provide their own tools, gloves etc., and the School will provide trash bags.

Total Estimates Costs \$5,000.00

Estimated Schedule of Events

Award of Grant- March 30th, 2015

Event planning, publish in the church bulleting for 3 consecutive weeks beginning April 5th, 12th and 19th, 2015

Provide written estimates for work (verbally have now) by April 7th, 2015

Have trades/contracted work performed a few days to 1 week prior to event

Hold clean up and planting event late April/early May 2015

Provide final project report to UG within 30-45 days after completion of event to allow for providing copies of publications and news articles, thank you letters from citizens and our parishioners.

Receive final payment from UG within 30 days of Final Project Report



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS
Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM
APPLICATION FORM

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APPLICATION DEADLINE: March 15, 2015

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Project Title: Discovering Stormwater Solutions

Name of Organization: Project Central

Mailing Address: 4529 Francis St., Kansas City, KS 66103

Name of Primary Project Contact/Manager: Shari L. Wilson

Daytime or Cell Phone Number: 913.269.3022

Email Address: shari@projcentral-co or sharilea51@gmail.com

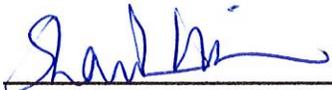
Amount Requested: \$ 5,000 Total Project Cost: \$ 5,500

- 1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS** – Describe your group’s or organization’s purpose, history, and if it is a formal or informal organization. Who will participate in your project and in what capacity? What are the roles of the project manager/coordinator If you plan to involve volunteers, how will you recruit them and how many will be involved.
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- 4. **EVALUATION AND CONTINUATION** – How will you evaluate the success of your project?
How will the project continue to support on-going or long-term activities and benefits?
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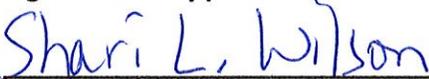
I certify that all information provided in this grant application is complete and true to the best of my knowledge, and that I am duly authorized to submit this application on behalf of my organization or group.



Signature of Applicant



Date



Printed Name of Applicant



Title of Applicant

**MAIL OR DELIVER FIVE (5) COPIES OF THIS FORM WITH ATTACHMENTS TO: Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator, Public Works Department, 701 N. 7th
Street, Kansas City, Kansas 66101**

UNIFIED GOVERNMENT STORMWATER QUALITY EDUCATION GRANT PROGRAM

APPLICATION

Project Title: DISCOVERING STORMWATER SOLUTIONS

1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS

Project Central, LLC, will be the lead organization on this grant project. It was formed in 2012 by Shari Wilson to work with schools, non-profit organizations, and neighborhood groups on science and environmental education projects, including those incorporating the arts. Project Central has worked with Mid-America Regional Council's Solid Waste Management District, the Kansas State Department of Education, Rosedale Development Association, U.S. State Department, and numerous others to implement programs into schools and communities. An ecologist and educator, Shari Wilson has nearly 20 years of experience in project management and educating students and adults about science and the environment. More information is at <http://projcentral.co>.

Shari Wilson with Project Central will be the project manager for this grant, and will coordinate activities with all of the partners. She will also work with our school partners to incorporate curriculum related to stormwater runoff and water quality into their classrooms, and will coordinate the *Reducing Runoff in Rosedale* stormwater demonstration project tour.

This grant project has several partners, as listed below:

- StoneLion Puppet Theatre
- Rosedale Development Association
- Spring Valley Neighborhood Association
- Rainbow CDF Freedom School
- Kansas City, Kansas Community College Campus Child Care Center

StoneLion Puppet Theatre will organize two community water festivals and perform its water quality puppet show, *Down the Drain*. More details about the water festivals and performance are below. StoneLion Puppet Theatre (SPT) is a professional, not-for-profit 501(c)3 theater company dedicated to expanding the horizons of the young and young-at-heart through the art of puppetry, in an interdisciplinary community of ethnic and cultural diversity primarily focusing on environmental education through art. StoneLion Puppet Theatre has an active Board of Directors, a check-marked DonorsEdge profile through the Greater Kansas City Community Foundation, and a proven track record of grant management including 2009 and 2010 MARC Storm Water Grants, Johnson County Stormwater Education Grants 2011-2014, Missouri Arts Council, Francis Family Foundation, National Endowment for the Arts, ArtsKC, and Kansas City, Missouri Neighborhood Tourism and Development Fund sponsorship. SPT's grant management staff includes Heather Nisbett-Loewenstein, Artistic Director; Taylor Gass, Office Manager; and Phil Kimmi, Grant Manager and Board Member.

For the past twenty years StoneLion has been an innovative leader in environmental education through art exemplified by our partnerships with Association of Zoos and Aquariums-accredited members, governmental agencies, and, most important, the thousands of schools reached. Last year alone SPT performed 282 performances in three countries and nine states. The current Puppets for the Planet Festival series and Mother's Day for Mother Earth giant puppet play partners with the Nelson-Atkins Museum of Art, Kansas City

Parks and Recreation, Liberty Parks and Recreation, Bridging the Gap, Lakeside Nature Center and the Kansas City Zoo to reach over 10,000 local residents with a positive message about helping our planet.

Since 2005, the Board of Commissioners of Kansas City Parks and Recreation has chosen to support SPT's endeavors with workshop, office, rehearsal and studio space.

Rosedale Development Association (RDA) will assist in publicizing the Rosedale-area community water festival and Spring Valley Neighborhood *Reducing Runoff in Rosedale* stormwater demonstration project tour throughout Rosedale, by distributing flyers and including the events in its electronic and mailed newsletters, website and Facebook page. RDA is a 501(c)3 not-for-profit community development corporation, serving the Rosedale area of Kansas City, Kansas and Wyandotte County. RDA's mission is to work in partnership with residents, businesses, and institutions to build a strong and healthy community and to improve the quality of life for those who live, work, and play in Rosedale.

Spring Valley Neighborhood Association (SVNA) will host the *Reducing Runoff in Rosedale* stormwater demonstration project tour and publicize it among Spring Valley residents through distributing flyers; posting it on its Facebook page, Google Group, and Next Door application (which also covers surrounding neighborhoods); and announcing it at neighborhood group meetings. SVNA will also provide water and refreshments for tour participants. SVNA's geographic boundaries cover Rainbow Boulevard to State Line Road, 43rd Avenue/Westport Road to 46th Avenue in Kansas City, Kansas.

Rainbow CDF Freedom School® will co-host the Rosedale-area community water festival on its grounds; publicize the festival and *Reducing Runoff in Rosedale* neighborhood demonstration project tour through distributing flyers to parents and caregivers, as well as in the Rainbow Mennonite Church bulletin; and students will participate in curriculum activities focused on water quality and reducing stormwater runoff. Rainbow Freedom School is a summer enrichment program for K-8 students and affiliated with the Children's Defense Fund. The program concentrates on reading and literacy, multi-generational mentoring, highlighting cultural awareness, and engaging parents. The school is located at Rainbow Mennonite Church, and students participate in a garden as part of their learning. The festival and curriculum activities will reach beyond the students to their teachers and caregivers. The school has approximately 100 students from Kansas City, Kansas (majority from the Rosedale area).

Kansas City, Kansas Community College's Campus Child Care Center (CCCC) will co-host a community water festival on the college campus, and its pre-school to 6th grade students will participate in curriculum activities focused on water quality and reducing stormwater runoff. CCCC will publicize the festival on campus to students, faculty, and staff through posters and campus announcements, and to the parents and caregivers of its students by distributing flyers.

2. PROJECT DESCRIPTION AND OBJECTIVES

A. Project Description

This project has three components: a Splash! community water festival, *Puppet Carnivale of Water*, taking place at Kansas City, Kansas Community College and Rainbow Mennonite Church/Whitmore Park in Rosedale; curriculum activities related to stormwater runoff and water quality in both partner schools; and a tour of residential stormwater runoff projects, *Reducing Runoff in Rosedale*, in the Spring Valley neighborhood.

Splash! Community Water Festival

StonELion Puppet Theater will produce the two family fun festivals providing public education about the adverse effects of stormwater runoff and water pollution, and offering real-world actions to reduce adverse stormwater runoff and pollution. Each festival will collaborate with a community partner (KCKCC CCC and Rainbow Freedom School) to create a family outreach event featuring SPT's *Puppet Carnivale of Water*. This production is an interactive performance art spectacle. Individual "side show" events engage small audiences in specific aspects of water quality education such as *Mother Nature's Fortune Telling Booth* discussing effects of stormwater runoff and air pollution on our water system or *The Water Train* (a small version of an old-fashioned circus wagon train), highlighting species that have been affected by water pollution and engaging the audience in a discussion of what we can do to reduce the risks to our local water system and its wildlife, including humans. Juggling water drops, roving indigenous species puppets, face painters and eco games like *Fishing for Litter* or *Stormwater Bingo* are also part of the spectacle. Hands-on art activities related to water quality and environmental education displays with information from local Earth Friendly exhibitors, such as Mid-America Regional Council, Bridging the Gap, Wyandotte County Extension, and the Wyandotte County Conservation District will be available. Local artists and diverse performers will supplement the four-hour event to engage the audience in interactive participation. Examples are hip hop dancer LeoNightUS or hula hoop artist Sara Glass creating an atmosphere of fun community engagement. Each festival will culminate in a performance of SPT's water quality puppet show, *Down the Drain*.

SPT's *Down the Drain* raises awareness of the importance of a clean water cycle, and shows the adverse effects of stormwater runoff and pollution. The production offers examples of how each of us can reduce water pollution and stormwater runoff while protecting our watershed. SPT believes that early recognition of how we all impact the environment can change patterns of behavior. *Down the Drain* creates this understanding by showing how the trash we throw in the street, the runoff from our yards and the chemicals poured into our streams and rivers all affect the watershed. Follow "Al the Rat," "Karma the Elephant," (yes, a scuba diving elephant) and "Felicia Flash, Wildlife Photographer," through a journey down a storm drain. The water cycle is taught by having the audience follow the water's journey from the drain into a small stream, into the Kansas River, the Missouri River, the Mississippi River, into the Delta, the Gulf and out to sea. Recycling and food chain concepts are also included in the script. This production matches existing core curriculum requirements for Missouri and Kansas state education standards 1st–5th grade in multiple sections, as certified by SPT's education committee. Over two dozen original hand-made puppets, including a cockroach, muskrat, long-nosed gar, catfish, North American alligator, and river otters capture the attention and imagination of all ages. A "freewheeling" section of coral reef provides an eye-catching and informative end to our journey. The audience discovers that the trash initially tossed into the sewer system in our city has been caught underneath a brain coral in the Atlantic Ocean.

As part of promoting policies to reduce contamination of stormwater runoff, a stormwater drain stenciling design contest will be initiated at each event. Participants will be asked to design a stencil to educate the public on how the storm drains connect to our local water system. A panel of local environmental education specialists and artists will choose a winning design from each event. A set of five stencils will be created and presented to each school and other Wyandotte County civic organizations, such as RDA, to stencil drains in their area. The winner of the competition will be presented with their own stencil, award certificate and a native species puppet.

The model for this festival series is based on the proven success of SPT's larger environmentally-themed festivals which have been entertaining and educating thousands for the past nine years. This model provides an opportunity for more one-on-one interaction to answer specific questions and spur individual action. This approach is different from standard festivals with a large stage and lots of tables. The uniqueness of the

concept brings in audiences and captures their imagination. This will be a Carnivale of participation and activity with each act focused on stormwater education in an individual manner, reaching not only children *but their parents and grandparents*. A similar series met with great success in 2014, sponsored and funded by the Johnson County Stormwater Education Committee.

SPT will publicize these events on its website, through its electronic newsletter and Facebook page, and by distributing flyers. Based on experience with past festivals, it is anticipated that approximately 500 people will be reached through the two Wyandotte County events.

There will be no charge to attend the festivals or participate in the activities; costs are covered in the grant.

Stormwater in the Classroom: Curriculum in Schools

Curriculum activities related to stormwater runoff and water quality will reinforce the learning that occurs at the community water festivals. Shari Wilson with Project Central will coordinate the hands-on activities with each school, and invite agencies focusing on water quality and wildlife habitat, such as the Kansas Department of Wildlife, Parks and Tourism and Wyandotte County Conservation District, to work with her to teach the activities. Activities from *Project WET*, *Project WILD*, and the *Down the Drain curriculum guide* will be introduced to the students and given to the teachers, so they may use them with future classes of students. A “home component” will be included with each activity, so students can involve their families in what they learned. This will extend the reach of the activities and encourage behavior change into the larger community.

KCKCC CCCC has approximately 50 students, and Rainbow Freedom School has 100 students, so the curriculum activities will reach a total of at least 150 students, their teachers, and caregivers.

Reducing Runoff in Rosedale Stormwater Demonstration Project Neighborhood Tour

To continue the educational efforts presented at the community water festival, a tour of residential stormwater runoff projects will take place in the Spring Valley neighborhood in conjunction with the Rosedale festival. The terrain within the Spring Valley area is hilly and stormwater frequently rushes down the streets and from one neighbor’s yard into the next, taking soil, trash, and pollutants with it. A tour of five to six locations will show what residents have done in their own yards to capture and control their stormwater, and demonstrate actions ordinary citizens can take that are replicable by others.

Participants in the free tour will receive a map of the locations and can start at any point. The Spring Valley neighborhood is very compact, so participants will be encouraged to walk from site to site, as long as the weather is nice. Tour stops identified so far include:

- **Stormwater 101.** A question-and-answer session about what stormwater runoff is, why we should be concerned about it, and programs the Unified Government (UG) is implementing to reduce it. We will invite a UG representative to participate in this session.
- **On-Site, Out of Mind.** A resident’s series of rain barrels and soaker hoses captures and controls the water running off the house and carport, and is used to water landscaping and vegetable garden, saving money as well as helping the local environment.
- **Make It Work FOR You, not AGAINST You.** The slope of a resident’s yard caused water and soil to run off into the alley and a neighbor’s basement garage. By utilizing the slope to plant different types of vegetables and flowers suited for drier or wetter areas, now the slope of the yard is a positive, for the resident and neighbor!

- **It's Okay to Park on this Grass.** In order to avoid most of their yard becoming a concrete pathway for water, these residents built a driveway made out of concrete blocks on their sides, planting grass in the holes. Water is absorbed into the ground instead of running off into the street or into their garage.

Depending on the number of stops, the length of the tour will run from two to three hours. Participants will have an opportunity to ask questions of the residents, and discussion will be encouraged. Refreshments provided by the Spring Valley Neighborhood Association will be offered. Publicity will be handled by SVNA, Rosedale Development Association, StoneLion Puppet Theatre (as part of the community water festival), and Rainbow Freedom School, as described above in the Group Description and Project Participants section.

It is anticipated that 75-100 people will take part in the tour.

B. Project Objectives

- **Stormwater Quality Information and Education:** The community water festivals organized by StoneLion Puppet Theatre will inform and educate the general public of the importance of a clean water cycle, how the stormwater drain system works, what they can do to improve the water quality of their watershed (including reducing the amount of toxins and trash washed “down the drain”), and show the adverse effects of stormwater runoff and pollution. This professional event and theatrical production will offer examples of how each of us can reduce water pollution and stormwater runoff while protecting our watershed. Through watching the puppet performance and interacting with the individual “side shows,” problems associated with stormwater runoff will be introduced. Local resources offered by area environmental educators (such as Mid-America Regional Council, Bridging the Gap, Eco Grow, KC Community Gardens, Food not Lawn and Habitat ReStore) will inform the audience members how they can implement the changes discussed.

The curriculum activities at Rainbow Freedom School and Kansas City, Kansas Community College’s Campus Child Care Center will reinforce the education at the festivals by providing more in-depth lessons about the importance of protecting our local water resources. Through participating in activities from the curriculum guides *Project WET*, *Project WILD*, and the *Down the Drain curriculum guide*, students will learn about how humans affect water quality and what impact this has on wildlife.

The Spring Valley Neighborhood *Reducing Runoff in Rosedale* tour will teach the general public about our local water resources, how water becomes polluted, where stormwater runoff in the neighborhood goes, and what local residents are doing to help prevent stormwater runoff.

- **Household Hazardous Waste Information and Education:** The community water festivals organized by StoneLion Puppet Theatre will educate the general public about reducing household hazardous wastes and using alternatives with fewer chemicals and pollutants through interactive activities at the festival.

3. PROJECT LOCATION

Kansas City, Kansas will be the location for this project. The community water festivals will take place 1) on the campus of Kansas City, Kansas Community College; and 2) at Rainbow Freedom School, located at Rainbow Mennonite Church and Whitmore Park, off Southwest Boulevard in the Rosedale area. The *Reducing Runoff in Rosedale* stormwater demonstration project tour will occur in the Spring Valley Neighborhood Association area, between Rainbow Boulevard and State Line Road, 43rd Avenue/Westport Road to 46th Avenue. Curriculum activities will occur at Rainbow Freedom School and KCKCC’s Campus Child Care Center.

4. EVALUATION AND CONTINUATION

At both community water festivals, on-site evaluations will be available for participants. Participants will be tallied at each event, and tallies of materials taken by audience members will be kept. Each event will have random exit surveys conducted by volunteers and an opportunity for individual feedback and suggestions will be made available through an anonymous comment box. After each event is over, organizers and community partners will participate in a roundtable for feedback and fill out an additional survey on the effectiveness of the event in reaching our goals.

Upon completion of curriculum activities conducted by Shari Wilson, each school will be asked to fill out a survey on how well stormwater issues and solutions were presented and whether they were clear and understandable for the students. The students themselves will take a pre-test prior to participating in the activities, and a post-test afterward to see how well they understood the concepts presented.

Participants in the *Reducing Runoff in Rosedale* neighborhood tour will be asked to fill out a survey giving feedback on the tour as well as asking for two ideas or concepts they remember most from the tour. Participants will also be asked if they plan to implement any of the measures they observed on the tour.

Surveys and feedback forms will be compiled and a final report submitted to the Unified Government by Project Manager Shari Wilson at the end of the project.

5. BUDGET AND SCHEDULE

Project Central is requesting \$5,000 in grant funding to implement this project. In-kind contributions of \$550 have been donated toward the project budget, which is attached following this page.

The project schedule is also attached following this page.

6. SUPPORTING DOCUMENTATION

Letters of support from:

- StoneLion Puppet Theatre
- Rosedale Development Association
- Spring Valley Neighborhood Association
- Beth Ciperson and Valorie Wells Fenton, residents hosting neighborhood tour stops
- Rainbow CDF Freedom School
- Kansas City, Kansas Community College Campus Child Care Center

Splash! Discovering Stormwater Solutions		Project Budget						
Type of Expense	Participants	Item	Unit Price	Quantity	Total Grant Expense	In-Kind Donations	Total Cost	
Project Element No. 1- SPLASH! Community Water Festivals Two events								
Personnel Hours	Stonelion Artistic Performers	"Down the Drain" Puppet Show	\$600	2 events	\$1,200		\$1,200	
	Stonelion Water "Side Show" performers	Five "Side Shows" such as water drop juggling, Mother Nature's Fortune Telling Booth and Fishing for Litter	\$125	5 x 2 events= 10	\$1,250		\$1,250	
	Stonelion Marketing	graphic design for banners and flyers	\$100	2 events	\$200		\$200	
	Stonelion Festival Director	management to organize event with community	\$20/hour	20 hrs x2 events	\$800		\$800	
Supplies	Printing Company	printing for flyers	\$25	2 events	\$50		\$50	
	Printing Company	Banner for each event	\$125	2 events	\$250		\$250	
Materials		Art Supplies for water art activities	\$100	2 events	\$200		\$200	
		Stencil materials for storm drain stencils	\$25	2 events	\$50		\$50	
	Rosedale Development Association, Spring Valley Neighborhood Association, KCKCC Campus Child Care Center, Rainbow Freedom School	Distribution of publicity flyers, posting events on electronic media & in newsletters, press releases (also promoting neighborhood tour)	\$15/hour	8 hrs		\$	\$120	\$120
				Subtotals	\$4,000	\$	120	\$4,120

Project Element No. 2: Curriculum Activities in Schools									
			planning and teaching stormwater activities in school classrooms						
Personnel Hours	Project Central/Shari Wilson		materials for classroom stormwater activities	\$30/hour	10 hrs x 2 schools		\$240	\$60	\$300
Materials				\$60	2 schools		\$120	\$60	\$120
					Subtotals		\$360	\$60	\$420
Project Element No. 3: Reducing Runoff in Rosedale Spring Valley Neighborhood Tour									
Personnel Hours	Project Central/Shari Wilson		Coordination of neighborhood tour	\$30/hour	6 hrs		\$120	\$60	\$180
Personnel Hours	Project Central/Shari Wilson		design of fliers and tour maps	\$30/hour	4 hrs		\$60	\$60	\$120
Personnel Hours	Spring Valley Neighborhood Association		Distribution of publicity fliers, posting event on electronic media	\$15/hour	6 hrs			\$90	\$90
Supplies	Project Central/Shari Wilson		printing for publicity fliers (400 single-page fliers -- B&W) and tour maps (100 single-page maps -- color)	\$70	\$0.05/B&W flyer; \$0.50/color flyer (printed in-house)		\$70		\$70
Supplies	Spring Valley Neighborhood Association		water and refreshments for tour participants	\$1/participant	100 expected participants		\$250	\$100	\$100
					Subtotals		\$250	\$310	\$560
Project Element No. 4: Project Management									
Personnel Hours	Project Central/Shari Wilson		overall management of project	\$30/hour	15 hrs		\$390	\$60	\$450
					Subtotals		\$390	\$60	\$450
					Total Project Cost		\$5,000	\$550	\$5,550

Splash! Discovering Stormwater Solutions	Project Schedule		
Activity	Schedule		
Approved Grant Award Agreement/Notice to Proceed (NTP)	Approximately 30 March 2015		
Project Element No. 1: SPLASH! Community Water Festivals - Two events (StoneLion Puppet Theatre)			
Hold community organization meetings for festivals (with Project Central)	within April 2015		
Contact exhibitors for festivals	within May 2015		
Meet with graphic designer	within May 2015		
Initiate marketing plan for festivals	within May 2015		
Banners in place advertising festivals	two weeks out from each festival		
Hold community festival at Rainbow Freedom School	During the month of June 2015		
Hold community festival at Kansas City, Kansas Community College	late August 2015		
Conduct evaluations; post-event roundtable; compile evaluations (with Project Central)	During and following community festivals		
Project Element No. 2: Curriculum Activities in Schools			
Coordinate curriculum activities and schedule with schools	1 month prior to community festivals		
Plan and coordinate curriculum activities; schedule any other presenters	3 weeks prior to visiting classrooms		
Implement curriculum activities in classrooms	Within 1 month after community festivals (July for Rainbow Freedom School; September for KCKCC CCCC)		
Conduct and compile evaluations	During and after classroom visits		
Project Element No. 3: Reducing Runoff In Rosedale Spring Valley Neighborhood Tour			
Recruit 1-2 additional tour stops; confirm existing tour stops; coordinate times and schedule	Within 3 weeks after NTP		
Coordinate publicity with SNVA, RDA, Rainbow Freedom School, StoneLion	6 weeks prior to tour		
Print and distribute flyers, publicize through neighborhood group meetings, send out electronic notices, press releases	1-4 weeks prior to tour (ongoing)		
Coordinate final details with tour stops; procure refreshments	1 week prior to tour		
Hold tour; collect evaluations	During the month of June 2015		
Compile evaluations	1 week after tour		

Project Element No. 4: Project Management			
Coordinate overall project details with StoneLion Puppet Theatre, schools, and community organizations	Ongoing after NTP until end of grant		
Compile final report and provide to UG	No later than 15 December 2015		

STONELION

www.stonelionpuppets.org

P.O. Box 410006
Kansas City, MO
64141-0006
816.221.5351

Producing
Artistic Director

**Heather
Nisbett-Loewenstein**
heather@stonelionpuppets.org

Board of Directors
board@stonelionpuppets.org

President
April Roy
KCMO Public Library

Secretary
Deborah Barker
Lakeside Nature Center

Treasurer
Bonnie Traner
Allied National Inc.

Jason Coats
SM School District

Tina Gipson
De La Salle

Larry Goodman
Computer Solutions

Fred Goodson
Theatrical Director

Phil Kimmi
Genzyme Biosurgery

Melissa Straus
Reintjes Company

3/14/2015

Shari Wilson
Project Central

Dear Shari,

Thank you for contacting StoneLion Puppet Theatre with this exciting proposal. With great anticipation of the possibility of you achieving funding, we would welcome the opportunity to expand our environmental education outreach into Wyandotte County.

We have had many successful in-school opportunities in the area but have not had the ability to reach the community with our festival model. StoneLion has a history of strong stormwater education events and are committed to helping mitigate stormwater run-off pollution. We would diligently work to create active and successful events to help educate the citizens of Wyandotte County to create a more sustainable future for our area.

Once again, thank you for contacting us with this exciting opportunity.

Sincerely,



Heather Nisbett-Loewenstein
Producing Artistic Director
StoneLion Puppet Theatre



Working in partnership with residents, businesses, and institutions to build a strong and healthy community and to improve the quality of life for those who live, work, and play in Rosedale.

March 16, 2015

Dear reviewer,

Please accept this letter of support for Project Central's application for "Discovering Stormwater Solutions." Rosedale Development Association (RDA) has worked with Shari Wilson and Project Central on numerous occasions, including the creation of an environmental education curriculum for Rosedale Middle School and the design of an outdoor classroom and nature trail at the same school. Shari is a gifted educator and a pleasure to work with.

Additionally, RDA is excited about the involvement of neighborhood groups and Freedom School youth in the proposed project. Southwest Boulevard, where our offices are located, has dealt with stormwater issues for years, including flooding, run off and lack of drainage. Her creative proposal makes the issue exciting and educational, and has the potential to make an impact on a large group of people.

We are excited to partner in this project, and lend our full support to Project Central in their application.

Sincerely,

A handwritten signature in black ink that reads "Heidi Holliday". The signature is fluid and cursive, with a long, sweeping underline.

Heidi Holliday, Executive Director



Shari L. Wilson <sharilea51@gmail.com>

SVNA support for Sewer Water Education Grant

1 message

james milligan [REDACTED]
To: "Shari L. Wilson" <sharilea51@gmail.com>

Fri, Mar 13, 2015 at 8:44 AM

Shari,

As president of Spring Valley Neighborhood Association, I wanted to express my support for your ideas to educate the Rosedale community, with the assistance of Spring Valley residents, on green infrastructure and proper stormwater management. SVNA would like to provide a limited amount of beverages (water, soft drinks) to your event. Please let us know if what other things we might be able to help with.

Regards,
James Milligan



Shari L. Wilson <sharilea51@gmail.com>

Support for storm water grant

Beth Ciperson [REDACTED]
To: "Shari L. Wilson" <sharilea51@gmail.com>

Sun, Mar 8, 2015 at 9:01 PM

Dear Shari;

Thanks so much for pursuing programs that will develop an awareness of how our community can not only strive to neutralize storm water waste but turn a negative into a positive.

I bought this, my first house, in Spring Valley.

The first thing I did was have a wooden barrel made to capture rain. In subsequent years I have added three more, put pop up valves from two underground downspout extensions, made a stone channel to carry another downspout from the back of my house to the front. All of this has ultimately saved me money and time not having to water my yard. And capturing, rather than watching, wasted runoff enter our aged and over powered sewer system is trying to do as much as I can for SVN.

I can't tell you how sad and taxpayer-frustrated I am when I see all the water stream down the street when it rains.

There is so much I would like to share and learn with my neighborhood if given the opportunity and information.



Shari L. Wilson <sharilea51@gmail.com>

Storm water Project

Valorie Wells Fenton [REDACTED]
To: "Shari L. Wilson" <sharilea51@gmail.com>

Thu, Mar 12, 2015 at 5:42 PM

Hi Shari,

Kenny and I would be honored to share what we've learned in our ten years of Urban Gardening. We have an amazingly easy Rain Garden that doubles as Winter Bird Station. We use two Rain Barrels with spigots and hoses to add water to our Rain Garden and Urban Veggie Patch. Our Urban Veggies grow from inspiration of KS Extension lecture about Straw Bale Gardens in 2009.

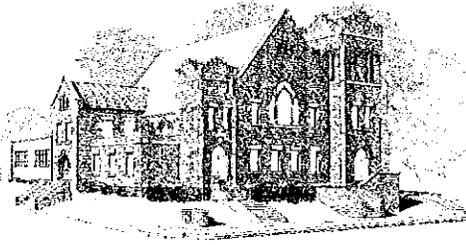
See my Pinterest pages under My Style for some photos of Straw Bale Gardens.

Also please feel free to make use of our huge party deck as a place to sit and chat during the tour.

I will send more garden photos under separate cover by Monday.

This is a great effort to save and re-use storm water. We appreciate all you do, Shari.

Valorie J Wells PhD/Valorie Wells Fenton
Sent from my iPhone



Rainbow CDF Freedom School®
1444 Southwest Blvd, Kansas City, KS 66103
www.rainbowmennonite.org
(913) 236-8820

March 16, 2015

Shari L. Wilson
Project Central
4529 Francis St.
Kansas City, Kansas 66103

Re: Letter of Support for Unified Government Stormwater Education Grant Application

To Whom It May Concern:

I am writing to express Rainbow CDF Freedom School's support for the stormwater education grant application to the Unified Government. Rainbow Freedom School is a six-week, full day summer enrichment program for 100 children in grades K-8 and affiliated with the Children's Defense Fund. The School is focused on 1) high quality academic enrichment with a focus on literacy, 2) parent and family involvement, 3) social action and civic engagement, 4) intergenerational servant leadership development, and 5) nutrition and health. Rainbow Mennonite Church has successfully hosted Freedom School since 2007.

Rainbow Freedom School will co-host the community water festival performed by StoneLion Puppet Theatre. It will be held next to Whitmore Park, which is the property of Rainbow Mennonite Church. We will help publicize this event as well as the *Reducing Runoff in Rosedale* neighborhood demonstration project tour to our church community and parents/caregivers of our students through flyers and putting notices in our church bulletin.

Our students will benefit from the curriculum activities related to stormwater. We look forward to partnering with Project Central and the other community partners to make this project a success!

Sincerely,

Rachel Hostetler, Executive Director
Rainbow CDF Freedom School®

March 10, 2015

Doris Holleman
Director, KCKCC Campus Child Care Center
7250 State Ave.,
Kansas City, KS 66112

Grant Review Committee
Unified Government of Wyandotte County
812 N. 7th St.,
Kansas City, KS 66101

To Whom It May Concern,

My name is Doris Holleman and I am the Director of the Kansas City Kansas Community College Campus Child Care Center. I have had a professional working relationship with Ms. Shari Wilson for many years thorough various environmental education programs. During the time I have known her, Ms. Wilson has been a passionate and dedicated professional. It is for this reason that I would like to submit this letter of support for her regarding the Unified Government Storm Water Education Grant. We fully believe and support Ms. Wilson and her agency's goals of providing environmental education through the arts through a partnership between herself, StoneLion Puppet Theatre, and the Kansas City Kansas Community College Campus Child Care Center. We would be more than excited and willing to participate in this grant by supporting and co-hosting an event at the Center. This theme of sustainability and environment education fits nicely within our focus on health and wellness education. I sincerely hope Ms. Wilson and her agency are chosen for this grant and would be more than happy to answer any further questions you may have. Please feel free to direct questions to me either by email at dholleman@kckcc.edu or by phone at 913-288-7615.

Sincerely,

Doris Holleman,
Director, KCKCC Campus Child Care Center



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS
Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM
APPLICATION FORM

GRANT FISCAL YEAR: 2015 (January 1, 2015 – December 31, 2015)
APPLICATION DEADLINE: March 15, 2015

Please review the Stormwater Quality Education Grant Program Application Packet prior to filling out this application form. Please provide responses to all questions below. Provide as much detail as possible, including information the Applicant feels is pertinent and not asked below. Mail or hand deliver five (5) copies of the completed and signed form, and any supporting documentation to the address listed on Page 2.

Project Title: Kids About Water (KAW) Project
Name of Organization: Friends of the Kaw, Inc
Mailing Address: 5610 W. 61st Ter, Mission, KS 66202
Name of Primary Project Contact/Manager: Laura Calwell
Daytime or Cell Phone Number: 913 963 3460
Email Address: friends of the kaw@gmail.com
Amount Requested: \$ 5000⁰⁰ Total Project Cost: \$ 9,410⁰⁰

- 1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS** – Describe your group's or organization's purpose, history, and if it is a formal or informal organization. Who will participate in your project and in what capacity? What are the roles of the project manager/coordinator If you plan to involve volunteers, how will you recruit them and how many will be involved.
- 2. PROJECT DESCRIPTION AND OBJECTIVES** – Write a detailed description of the proposed project. Include a description of how your project will address any of the Clean Stormwater Grant Program Objectives identified in the Application Packet.
- 3. PROJECT LOCATION** – Explain where your project will be conducted. If necessary, attach a map to the application. If the project will be conducted outside of Wyandotte County, then describe the direct benefits provided by the project to the residents of the County.

4. **EVALUATION AND CONTINUATION** – How will you evaluate the success of your project? How will the project continue to support on-going or long-term activities and benefits?
5. **BUDGET AND SCHEDULE** – Attach a preliminary schedule for project implementation following the Example in the Application Packet. Submit a preliminary project budget following the Example listed in the Application Packet.
6. **SUPPORTING DOCUMENTATION** – Include with the application any additional information, letters of support from partners, etc.

AUTHORIZING SIGNATURE

I certify that all information provided in this grant application is complete and true to the best of my knowledge, and that I am duly authorized to submit this application on behalf of my organization or group.

Laura W Caldwell 3/11/15
Signature of Applicant Date

Laura W Caldwell
Printed Name of Applicant

Executive Director of Friends of the Kaw
Title of Applicant

**MAIL OR DELIVER FIVE (5) COPIES OF THIS FORM WITH ATTACHMENTS TO: Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator, Public Works Department, 701 N. 7th
Street, Kansas City, Kansas 66101**

GROUP DESCRIPTION AND PROJECT PARTICIPANTS

Friends of the Kaw (FOK) is uniquely qualified to work on stormwater education in Wyandotte County because we draw members from all sectors of society and throughout the watershed. The mission of FOK is to protect and preserve the Kansas River (known locally as the Kaw) for present and future generations. Incorporated in 1997, FOK is a grassroots, environmental advocacy, 501(c)(3) organization; our main goal is to hold public agencies and the community accountable for the health of the Kansas River. A major organizational goal is environmental education, teaching both adults and youth about the ecological identity of the Kaw as a critical wildlife habitat, a multi-user resource, and a major bioregional lifeline linking the communities of northeastern Kansas. We also sponsor educational float trips on the Kansas River to make families aware of the importance of the Kansas River to their lives and as a recreational resource in their communities. The proposed project is aligned with grant objectives and presents an opportunity to bring together a number of Wyandotte County youth and adults, FOK members, local business representatives, and stakeholder groups that have worked with FOK in the past. By working together we can help create new linkages between these various sectors and improve water quality in Wyandotte County.

FOK's staff, Dawn Buehler, Laura Calwell and Kate Delehunt will manage and facilitate two educational, cleanup floats on the Kansas River through Wyandotte County; two Paddling Experiences for youth at Wyandotte County Lake; and four classes of FOK's signature curriculum, the KAW Curriculum (Kids About Water): An Issues and Action Approach to Water Quality Education. Ms. Buehler is the current Kansas Riverkeeper and will oversee the educational cleanup floats. Ms. Delehunt, FOK's Educational Specialist, has over 35 years of experience in environmental education in Kansas City and will oversee the KAW classes. Ms. Calwell, the current Executive Director and former Kansas Riverkeeper, will oversee the Paddling Experiences and manage the grant. All three staff members have implemented and managed many grants dealing with water quality education. FOK's Board of Directors and members in Wyandotte County will support the projects as volunteers and will be recruited via our email newsletter. We will recruit approximately 50 adult volunteers to assist with the three activities.

PROJECT DESCRIPTION AND OBJECTIVES

1. Public Participation and Involvement - Educational Cleanup Floats

FOK will offer 2 river float cleanup events to residents of Wyandotte County: One float between Edwardsville and the Turner Bridge access ramps (seven miles) and one float between the Turner Bridge and Kaw Point Park access ramps (nine miles.) FOK will provide canoes, kayaks, gloves, and trash bags and will organize transportation for up to 30 participants for each event, reaching up to 60 residents. FOK will also be responsible for the proper disposal of all litter picked up along the river. It is estimated that 50 bags of trash and 10 tires will be removed from the river during each cleanup event. These float trips will also be used to educate participants about issues related to reducing polluted stormwater runoff to the Kansas River during paddling breaks.

FOK has safely organized and facilitated float trips on the Kansas River for over ten years. We require all participants to attend a safety and basic paddling talk prior to the float and to wear properly fitted PFDs on the river. Children between five and thirteen years old can accompany their parents or guardians and will be passengers in canoes. Teens over fourteen can accompany their parent or guardian and paddle with them in a canoe or kayak. Float trips only occur on the Kansas River when water levels are below 5000 cfs (low water). Trips will be rescheduled if thunderstorms or high winds are eminent. FOK has liability insurance that covers float trips and requires participants to sign a liability waiver prior to the float.

This activity will address both the *Storm Water Quality Education* and *Environmental Preservation* program objectives for this grant.

2. Public Education and Outreach

• Youth Paddling Experiences

FOK will offer Paddling Experiences to 2 Wyandotte County youth organizations (i.e. Boys and Girls Clubs, Scout groups) serving youth between the ages of 8 and 11. A maximum of 30 youth per session will participate in this half- day activity at Wyandotte County Lake. Upon arrival each youth will be assigned to one of three groups that will rotate between three activities, each lasting 45 minutes. Activities will include:

- Paddling a canoe or double kayak with an experienced adult paddler. This activity will start with properly fitting each student with a PFD, a safety talk and basic paddling instruction. Students will paddle with their experienced adult on the lake. Ms. Calwell will oversee and organize this activity.
- Seining for and identifying macroinvertebrates. Kate Delehunt and an adult volunteer will assist each student to seine for macroinvertebrates on the side of the lake. They will return to a shelter and use magnifying glasses and identification guides to identify species. Ms. Delehunt will discuss the importance of macroinvertebrates and the difference between pollution tolerant and pollution intolerant species.
- Participating in the Freddy the Stormwater Fish Game. This game teaches students about the effects of stormwater pollution on water quality and fish habitat. Ms. Buehler will help students investigate the habitat requirements for fish, and the different ways that humans can impact water quality and aquatic habitats, as well as ways that they can keep streams healthy for fish and other aquatic life.

• K.A.W. Curriculum (Kids About Water): An Issues and Action Approach to Water Quality Education

The KAW Curriculum (Kids About Water) will provide students and adults in Wyandotte County with hands-on experiences to learn how stormwater pollution impacts water quality which, in turn, may impact public health in their community. FOK will facilitate 4 KAW classes. Each class will reach approximately 30 middle or high school science students who will participate in a five-lesson water quality issues and actions curriculum and will involve 8 adult volunteer mentors. Each KAW Project lesson is aligned to the Next Generation Science Standards currently being implemented in Kansas classrooms.

The following is an overview of the KAW Curriculum:

Lesson 1- Introduction to Watersheds and BMPs: Students learn about the watersheds of Wyandotte County, Kansas and identify the watershed in which their school is located. They participate in an activity that targets the “horizontal water cycle,” i.e. how stormwater, drinking water, waste water, and ground water are connected. Students identify how impervious surfaces, agricultural runoff, and other human activities contribute to water pollution problems and how these problems become issues. The concept of Best Management Practices (BMPs) is introduced and examples of how they are used to mitigate water quality issues are given.

Lessons 2 and 3- Field Experiences: Students participate in two days of hands-on, data-generating water quality lessons at a water site. Small groups of students rotate through a set of activities that include: water monitoring tests, calculating stream flow and velocity, seining and identifying macroinvertebrates, measuring impervious surface areas to determine stormwater runoff volumes, and recording observations in a stream survey. Each activity includes a data collection component and all collection protocols are followed. Adult mentors are recruited to assist students with the field activities.

Lesson 4- Meaning in the Data: Data collected from each field activity is analyzed to determine the overall condition of the water site. Connections are made on how runoff volumes and stream flow might impact pollutant levels and how that, in turn, might impact the quality and quantity of macros (water quality indicators) found there. Based on the analyzed data, students generate a list of water quality problems and issues associated with the tested water and discuss appropriate BMPs that could be used to improve water quality.

Lesson 5- Issues and Actions (Problem Solving Strategies): Students participate in discussions on the connections between a problem and an issue and how issues develop around solutions to a problem. Problems and issues relating to water quality, energy consumption, climate change, and public health are targeted. Students produce a list of problems related to the water quality data collected in lessons 2 and 3. Working in small groups, students choose a problem from the list, identify an associated issue, design a BMP to address the problem, and generate a list of implementation obstacles. Each group gives a short presentation explaining their plan.

This activity will address the *Stormwater Quality Information and Education* objective for this grant. We will inform and education over 120 middle school or high school science students and over 30 adults will serve as mentors for the field experience lessons. The adult mentors will have the opportunity to attend a training session to demonstrate and explain the activities planned for the students’ field experiences. Teachers will be encouraged to offer this opportunity to parents of the students participating. Representatives from area organizations, agencies, institutions, and companies will be recruited to assist as adult mentors. FOK has connections with: K-State University, Donnelly College, Board of Public Utilities (BPU), General Motors, Unified Government of Wyandotte County, and Black and Veatch Engineering firm. It is expected that not all adult mentors will be able to attend the volunteer training but they will still be encouraged to assist the trained adult mentors.

3. PROJECT LOCATION

All project locations will be in Wyandotte County.

One educational float trip will be between Edwardsville and the Turner Bridge access ramps (seven miles) and the other float will be between the Turner Bridge and Kaw Point Park access ramps (nine miles.)

The Youth Paddling Experience will be held at Wyandotte County Lake.

Friends of the Kaw will work with Brandon Gillette, Secondary Science Curriculum Teacher Leader, Kansas City Kansas Public Schools; Dr. Michael Hotz, Science Instructor at Wyandotte High School; and Richard Mabion, J Gordon Community Corporation to select the four middle school and/or high school science classes to participate in the KAW Curriculum and the two youth groups to participate in the Paddling Experience. FOK has already established a relationship with these individuals during previous grants and projects. As much as possible, FOK will try to identify schools that are within a safe walking distance to a water site for the two days of KAW Curriculum field experiences.

4. EVALUATION AND CONTINUATION

Prior to the KAW Curriculum and Youth Paddling Experience, students will be given a survey to assess their levels of knowledge, attitudes, and behaviors concerning water quality issues and actions. Upon completing the KAW Curriculum, students will be given the same survey to assess changes in their levels of knowledge, attitudes, and behaviors. The results will also be used to evaluate the effectiveness of these activities and to make changes to the lessons as needed. Teachers whose classes are involved with the KAW Curriculum will be encouraged to have their students adopt a group's issue to investigate and research further and to implement an appropriate Best Management Practice (BMP) for that issue. FOK staff will provide project assistance and supplies as needed. Students who complete the KAW Curriculum will be given information about the Kansas River Ambassador Program and encouraged to attend an educational, cleanup float with their parents as a community service opportunity.

Our staff is committed to securing funding for both the Youth Paddling Experience and the KAW Curriculum to be implemented in as many schools as possible in the Kansas River Watershed. We have and will approach cities that have budgeted funds for stormwater education and write grants to both public and private foundations.

FOK will continue to offer educational, cleanup floats to community and church groups of 16 or more participants. During each float trip, FOK staff conducts a sandbar seminar with all participants to teach them about the causes and effects of stormwater pollution and about how Best Management Practices are used to improve water quality in the Kansas River watersheds.

5. BUDGET AND SCHEDULE

ACTIVITY	SCHEDULE
Approved Grant Award Agreement/Notice to Proceed (NTP)	NTP(approx. March 30)
Recruit 4 middle school and/or high school science classes to participate in the KAW Curriculum for the 2015 fall semester	April & May, 2015
Recruit 2 organizations for Youth Paddling Experience and reserve shelter at Wyandotte County Lake for summer of 2015	April & May, 2015
Schedule, plan and promote 2 Cleanup Floats for summer of 2015	April & May, 2015
Facilitate 2 Youth Paddling Experiences at Wyandotte County Lake	June – July, 2015
Facilitate 2 educational, cleanup floats	June – July, 2015
Recruit adult mentors for fall of 2015	August 2015
Train adult mentors	Late August or early September 2015
Facilitate 4 KAW Curriculum Classes	September and October 2015
Evaluate feedback from Youth Paddling Experiences and KAW Curriculum Classes	Early November 2015
Provide Project Final Report to UG	November 15, 2015

2015 FOK/UG Budget

Type of Expense	Participants	Item	Unit Pric	Quantity	Total Exp	Match
2 Cleanup Floats						
Personnel Hours	Float Leader, Dawn Buehler	2 Float Trips	\$30	20	\$600	
Personnel Hours	Project Manager, Laura Calwell	Promote events and attend	\$30	17.5	\$525	
Supplies	Friends of the Kaw	Hotdogs & marshmallows	\$5/box	3	\$15	\$30
Supplies	Friends of the Kaw	Trash Bags				
Supplies	Friends of the Kaw	Gas to transport Boats	2.5	20	\$50	
Supplies	Friends of the Kaw	Canoes, kayaks, PFDs, Paddles	\$60	20	\$1,200	
Supplies	Friends of the Kaw	Advertising Flyers	\$0.10	100	\$10	
2 Paddling Experiences						
Personnel Hours	Float Leader, Dawn Buehler	2 Paddling Experience	\$30	11	\$330	
Personnel Hours	Project Manager, Laura Calwell	Promote events & Attend	\$30	11	\$330	
Personnel Hours	Education Specialist, Kate Delehunt	Attend and Macro Study prep	\$30	11	\$330	
Rental	Wyandotte County Lake	Beach Shelter	\$75	2	\$150	
Supplies	Friends of the Kaw	Freddy the Fish	\$10	1	\$10	
Supplies	Friends of the Kaw	Gas to transport Boats	\$2.50	20	\$50	
Supplies	Friends of the Kaw	Canoes, kayaks, PFDs, Paddles	\$60	20	\$1,200	
Supplies	Friends of the Kaw	Refreshments			\$30	
4 KAW Classes						
Personnel Hours	Education Specialist, Kate Delehunt	Organize and teach classes	\$30	60	\$1,800	
Personel Hours	Education Specialist, Kate Delehunt	Train Volunteers	\$30	4	\$120	
Personnel Hours	Project Manager, Laura Calwell	Project management & field ex	\$30	13	\$390	
Supplies	Friends of the Kaw	pH strips	\$20	1	\$20	
Supplies	Friends of the Kaw	Nitrate strips	\$20	1	\$20	
Supplies	Friends of the Kaw	Coliform petri dishes	\$50	1	\$50	
Supplies	Friends of the Kaw	Water Testing Kits	\$325	6	\$1,950	
Indirect Costs						
	Friends of the Kaw	phone, website, email	\$200	1	\$200	
Totals					\$5,000	\$4,410

Note: These support letters are for an EPA EJ grant that is pending.
for a very similar project.

December 1, 2014

Laura Calwell, Kansas Riverkeeper
Friend of the Kaw
P.O. Box 1612
Lawrence, KS 66044

RE: 2015 EPA Environmental Justice Grant Application - **EPA-OECA-OEJ-15-01**

Dear Ms. Calwell,

I am excited to assist and participate in your proposed EPA Environmental Justice Grant - Kids About Water: Community Issues Taught by Youth. I am very enthusiastic about the possibilities and outcomes of the grant activities proposed to improve water quality for Wyandotte County youth and communities.

I am happy to help find adult community members to participate in the water quality training for mentoring middle school students during their field experiences at a water site. I will also help find locations for these training sessions. I will assist high school students to plan and promote the community event at Kaw Point and help to recruit other organizations to provide informational booths at the event.

I am happy to work with Friends of the Kaw on this worthwhile project to get the community involved and educated on water issues and climate resiliency.

Sincerely,



Richard Mablon
J. Gordon Community Corporation

December 1, 2014

Laura Calwell, Kansas Riverkeeper
Friend of the Kaw
P.O. Box 1612
Lawrence, KS 66044

RE: 2015 EPA Environmental Justice Grant Application - **EPA-OECA-OEJ-15-01**

Dear Ms. Calwell,

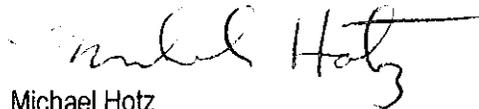
For the past several years I have been working with Friends of the Kaw (FOK) in the area of water quality, especially in urban watersheds. My science classes at Wyandotte High School have collaborated with FOK on a prior EPA Environmental Justice Small Grant. My students presented a youth panel on environmental justice, access to healthy food and environmental concerns at the 2012 Breaking the Silence Conference, and conducted a public outreach campaign on water quality in local fishing lakes.

Educationally our school district continues to deal with budget cuts and it makes it tremendously difficult to do anything outside of the classroom without supplemental grant support. The staff and volunteers of Friends of the Kaw have great passion for educating the public on water quality issues and my students respond well to their efforts. The students are future decision makers and need to be informed now before they are confronted with the problems that they will face in their adult lives.

FOK also received funding from the Mid-America Regional Council in 2011 to provide my students with a set of scientific instruments and funding for field trips that fall to sample area lakes. The students created a public education campaign on water quality and fishing in their neighborhoods. I am very impressed with the responsiveness of Friends of the Kaw and their willingness to engage with my students.

I am willing to have FOK implement the five lesson Kids About Water program, organize five additional water quality activities to include a speakers series and promote the Community Issues Taught by Youth program in two of my science classes. I will also help FOK connect with other Wyandotte County high school and middle school science teachers to schedule additional activities related to this grant application. Thank you for your consideration of this project.

Sincerely,



Michael Hotz
Science Instructor at Wyandotte High School



Kansas City, Kansas Public Schools

Central Office

2010 N. 59th Street Kansas City, KS 66104
(913) 551-3200

FAX: (913) 551-3217

www.kckps.org

January 5, 2015

Laura Calwell, Kansas Riverkeeper
Friend of the Kaw
P.O. Box 1612
Lawrence, KS 66044

RE: 2015 EPA Environmental Justice Grant Application - EPA-OECA-OEJ-15-01

Dear Ms. Calwell,

It was a pleasure to meet with you, and Kate Delehunt concerning participation by Kansas City Kansas Public Schools in your proposed EPA Environmental Justice Grant - Kids About Water: Community Issues Taught by Youth. We are very enthusiastic about the possibilities and outcomes of the grant activities proposed to improve water quality for our Wyandotte County youth and communities.

As Secondary Science Curriculum Teacher Leader, I am willing to assist Friends of the Kaw make contacts with high school and middle school science teachers to find appropriate classes to participate in the project and grant activities.

I am always looking for opportunities for staff and students to participate in innovative educational projects and become more involved with the community. I am happy to work with Friends of the Kaw on this worthwhile project.

Sincerely,

Brandon Gillette

Secondary Science Curriculum Teacher Leader, Kansas City Kansas Public Schools



KIDS ABOUT WATER (KAW) PROJECT

a five-lesson water quality issues and actions curriculum that targets students in grades 6-12.

- **DAY ONE: Watershed Introduction**
- **DAY TWO & THREE: Field Experiences - testing a water site**
- **DAY FOUR: Understanding Data Collected in the field**
- **DAY FIVE: Identifying Issues and Actions**



Friends of the Kaw's Educational Specialist, Kate Delehunt; former Kansas Riverkeeper and current Executive Director, Laura Calwell; and current Kansas Riverkeeper, Dawn Buehler are scheduling KAW Project classes for the fall of 2015. We have secured funding so the KAW classes will be taught at no cost to area schools. If you are interested in more information and/or scheduling a class please contact:

**Laura Calwell at 913 963 3460 or
friendsofthekaw@gmail.com**

Friends of the Kaw, Inc. – P.O. Box 1612 – Lawrence, KS 66044 – 785 312 7200 or 866 RIV KEEP
more information at kansasriver.org



UNIFIED GOVERNMENT OF WYANDOTTE COUNTY/KANSAS CITY, KANSAS
Stormwater Management Program

STORMWATER QUALITY EDUCATION GRANT PROGRAM
APPLICATION FORM

GRANT FISCAL YEAR: 2015 (January 1, 2015 – December 31, 2015)
APPLICATION DEADLINE: March 15, 2015

Please review the Stormwater Quality Education Grant Program Application Packet prior to filling out this application form. Please provide responses to all questions below. Provide as much detail as possible, including information the Applicant feels is pertinent and not asked below. Mail or hand deliver five (5) copies of the completed and signed form, and any supporting documentation to the address listed on Page 2.

Project Title: Water Is Life: Stormwater Quality Education
Name of Organization: Riverview Acres Crime Eliminators
Mailing Address: 300 North 80th Terrace Kansas City, Ks 66112
Name of Primary Project Contact/Manager: Scott Lemmen
Daytime or Cell Phone Number: 913-991-5162
Email Address: 397scotte@gmail.com
Amount Requested: \$ 4,950 Total Project Cost: \$ 4,950

- 1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS** – Describe your group's or organization's purpose, history, and if it is a formal or informal organization. Who will participate in your project and in what capacity? What are the roles of the project manager/coordinator If you plan to involve volunteers, how will you recruit them and how many will be involved.
- 2. PROJECT DESCRIPTION AND OBJECTIVES** – Write a detailed description of the proposed project. Include a description of how your project will address any of the Clean Stormwater Grant Program Objectives identified in the Application Packet.
- 3. PROJECT LOCATION** – Explain where your project will be conducted. If necessary, attach a map to the application. If the project will be conducted outside of Wyandotte County, then describe the direct benefits provided by the project to the residents of the County.

4. **EVALUATION AND CONTINUATION** – How will you evaluate the success of your project?
How will the project continue to support on-going or long-term activities and benefits?
5. **BUDGET AND SCHEDULE** – Attach a preliminary schedule for project implementation following the Example in the Application Packet. Submit a preliminary project budget following the Example listed in the Application Packet.
6. **SUPPORTING DOCUMENTATION** – Include with the application any additional information, letters of support from partners, etc.

AUTHORIZING SIGNATURE

I certify that all information provided in this grant application is complete and true to the best of my knowledge, and that I am duly authorized to submit this application on behalf of my organization or group.

Scott Lemmon

Signature of Applicant

3-3-15

Date

Scott Lemmon

Printed Name of Applicant

Manager / Coordinator

Title of Applicant

MAIL OR DELIVER FIVE (5) COPIES OF THIS FORM WITH ATTACHMENTS TO: Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator, Public Works Department, 701 N. 7th
Street, Kansas City, Kansas 66101

WATER IS LIFE: STORMWATER QUALITY EDUCATION

PROJECT TITLE: WATER IS LIFE: STORMWATER QUALITY EDUCATION
NAME OF ORGANIZATION: RIVERVIEW ACRES CRIME ELIMINATORS
MAILING ADDRESS: 300 NORTH 80TH TERRACE, KANSAS CITY, KANSAS 66112
PRIMARY PROJECT CONTACT/MANAGER: SCOTT LEMMON
CELL NUMBER: 913-991-5162
EMAIL ADDRESS: 397scott@gmail.com
AMOUNT REQUESTED: \$4,950
TOTAL PROJECT COST: \$4,950

1. GROUP DESCRIPTION AND PROJECT PARTICIPANTS

Riverview Acres Crime Eliminators is a combination Neighborhood Watch and Community Outreach Organization. Consisting of a collection of 350 single family dwellings, the organization was established in 1999. The neighborhood itself was originally established in the early 1950's. We have a long history of grassroots activities and grant funded projects. We are a formal non-profit organization with an executive board.

Our neighborhood organization has implemented numerous grant funded efforts and events over it's 16 year history. Our organization's president, Scott Lemmon, will manage and coordinate the project. Scott has over 20 years of videographer experience, web developer experience, and has created countless brochures for organizations. His experience also includes working with nonprofits and indigenous communities as a Google Earth Outreach Trainer.

The participants in our program will include the management and consultation of neighborhood president Scott Lemmon. He will produce all aspects of the film, creation of the website, and creation of the brochure. A press release will also be created once the film production is complete and the project is documented. The Riverview Acres Crime Eliminators Executive Board will provide consultation, review of participant applicants, and oversight. Dr. Cynthia Annett will evaluate and consult on the scientific content that our project produces. The Riverview Garden Center (est. 1983, a greenhouse business within the boundaries of the neighborhood association) will provide knowledge and expertise of rain garden designs. They will also make the majority of necessary items available for purchase, such as the proper plants and supplies that would be involved.

Our neighborhood association has successfully participated in many projects including: Operation Brightside, Great American Cleanup, Fire Safety Training by way of a United Way Grant, Search and Rescue Events, Senior safety checkups, conducted fundraisers via bake sales and events associated with local businesses, distributed recycling tubs to all neighbors,

participated in the Save a Life campaign, winter clothing drives for local elementary school, provided assistance to a local community garden, participated in the Adopt-a-Family program, participated in the Citizens Academy, supported a neighborhood clothing donation campaign, received yearly COPPS grant for neighborhood campaigns, holding a "Day Out Against Crime" event in our neighborhood, having neighborhood patrol officers, distribute monthly newsletters to our 350 residents and some local businesses, and we have residents who have attended Grassroots Leadership Training. We have had guest speakers at monthly public neighborhood meetings that have addressed pollution, water way concerns, stormwater quality, air pollution, and integrated water resource management. Dr. Cynthia Annett has attended public meetings and has assisted us in researching environmental pollution concerns that deal with water resources.

We will recruit participants at our public neighborhood monthly meeting. Our participants will consist of 5 rain garden participant families, 3 consultant entities, 4 executive board oversight personnel, and at least 6 volunteers from our neighborhood organization to assist with labor. Our consultants will make sure we are establishing the proper standards to create and maintain rain gardens that will meet stormwater quality preservation needs.

All residents interested in participating will fill out applications our executive board designs. Our executive board will review the applications and select, by majority decision, those residents with property that would be the most educationally suited for the use of rain gardens.

Dr. Cynthia Annett will evaluate the progress of our efforts and be our consult on the scientific content of what we produce. Dr. Annett previously designed a Best Management Practices contest for controlling stormwater runoff in Johnson County for the Friends of the Kaw and will use that experience to help us develop our program.

2. PROJECT DESCRIPTION AND OBJECTIVES

One of the major products from our project will be the creation of a collection of six 5 minute films. The films will document some of the training, implementation and results of installing and creating and the rain gardens, and will follow the experiences of participants over a four month period to evaluate the results. The film will also have residents talking about various Stormwater management tips. A second aspect of the project will involve a website. The website will be created so that the film can be shared online and placed on YouTube for wider dissemination along with educational material and interviews about stormwater management. We will also produce and make available 100 DVD's for distribution to local schools and neighborhood associations. These DVD's will contain the six 5 minute films and photos from the the different stages of the project. The third aspect of the project will be the creation of a brochure. One side of the brochure will also serve as a full page poster. The brochure along with the DVD's will be made available at the Liveable Neighborhoods Resource Center. The brochure/poster and the films will also be made available for download on the website.

Through film, web presence, and brochures....we can share our information with other neighborhoods in Kansas City, Kansas and beyond!

Dr. Cynthia Annett will evaluate the progress of our efforts and be our consultant on the scientific content of what we produce. Dr. Annett holds a PhD from the University of California at Berkeley, and has worked on watershed education and stormwater runoff for the past ten years, including working as a scientific consultant for the Friends of the Kaw on grants from the MARC and Johnson County Stormwater Offices, EPA Environmental Justice and Environmental Education. Several of her projects included work in Wyandotte County.

The rain gardens will be established on residents property. This will encourage ownership of the projects. Training and installation of the equipment and resources will take place in May 2015. Residents will keep a journal of the experience and use of these stormwater runoff prevention tools. Participant will meet in September 2015 to discuss their experience. These experiences will be documented in a film. Participants will also be document on film sharing tips and information on keeping pollutants out of our streams, rivers, and lakes. The final films will be completed in October 2015.

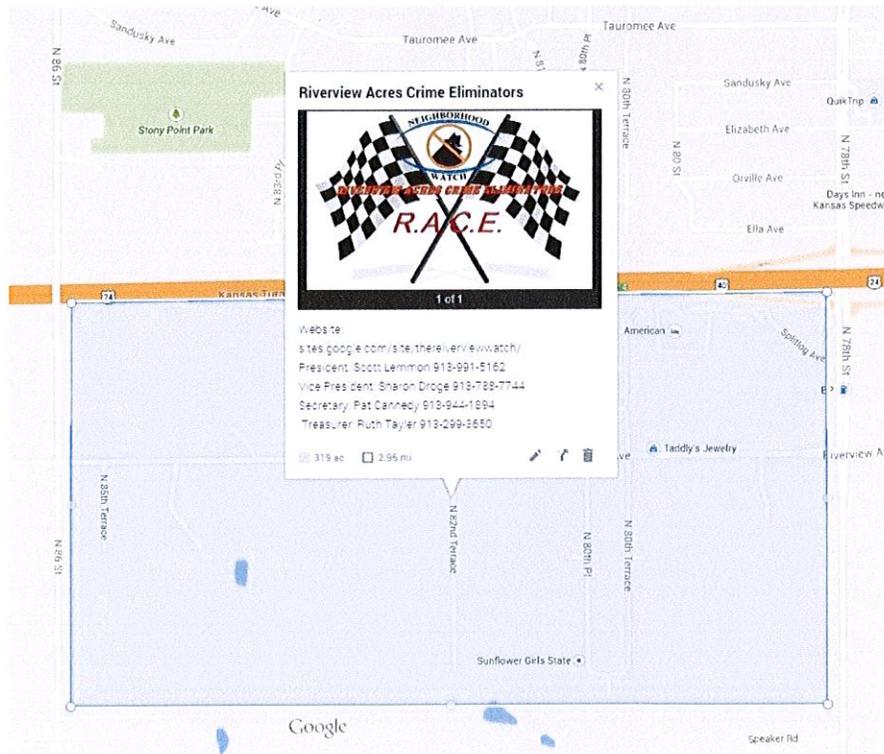
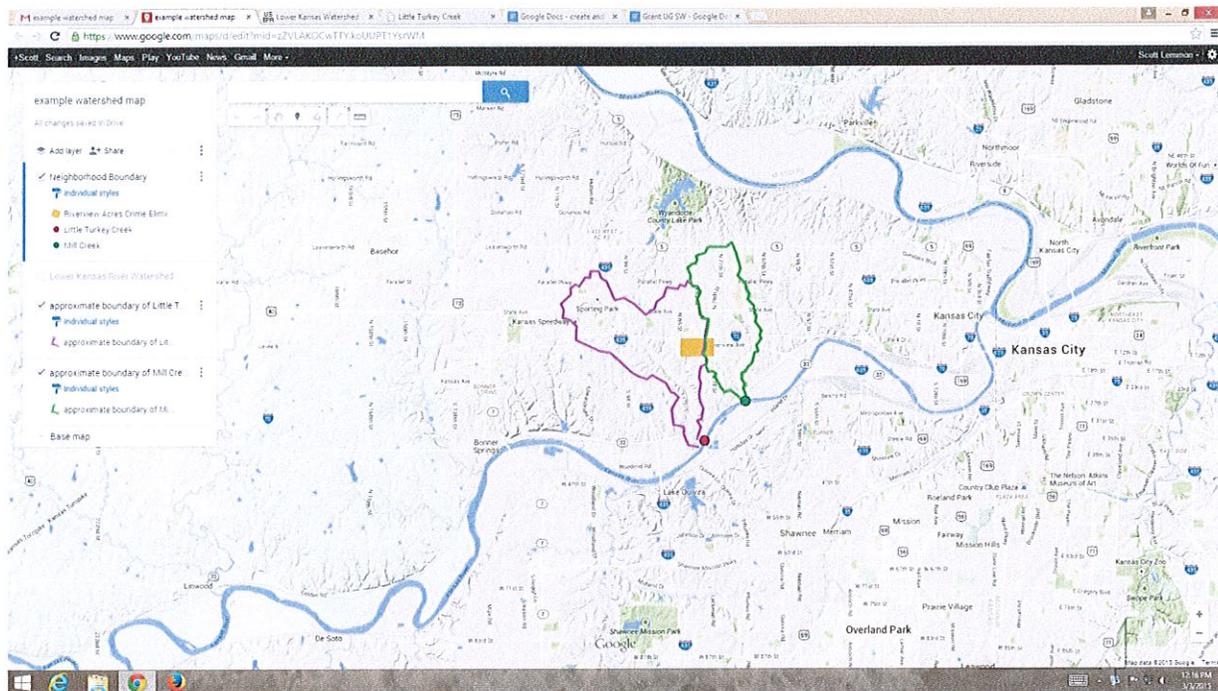
Residents will also be encouraged to make innovative approaches to maximizing the benefit of having a rain garden. Monetary incentives will be used. The executive board will evaluate the completed projects and select, by majority rule, the most innovative rain garden.

The film, website, and brochure will address stormwater quality information and education and address household hazardous waste information and education. We will have residents address issues and talk about and provide information on the proper disposal of Household Hazardous Waste in Wyandotte County. We will talk about the things you can do to preserve and protect your water quality. We will make this information available and promote this information to residents, schools, businesses, and the public in general.

3. PROJECT LOCATION

Our project location will be within the boundaries of our neighborhood organization. The boundaries are 78th Street on the East (not to include the properties fronting on 78th Street); 86th Street on the West; the 100's Block of 80th Place and 80th Terrace to the South; and the Interstate I-70 Highway to the North. According to the MARC website <http://www.marc2.org/> and the http://cfpub.epa.gov/surf/huc.cfm?huc_code=10270104 site, we are part of both the Little Turkey Creek watershed and Mill Creek Watershed.

Interactive map online showing the neighborhood and watershed boundaries:
<https://www.google.com/maps/d/edit?mid=zZVLAKOCwTTY.koUUPT1YsrWM>



4. EVALUATION AND CONTINUATION

We will evaluate the success of our project by inspecting the rain gardens throughout the process. Dr. Annett will help provide a final report of the project. Filming installation in May,

filming over the summer, and in filming interviews with participants in October. With our rain gardens, films, website, brochure, and press release...we are documenting the experience in a sustainable format for the future. Demonstrating to other residents what residents can do to help sustain stormwater quality and better protect the environment and water quality. The timely completion of the rain gardens, film, website, and brochure will be one measure of our success. Tracking our website statistics, such as the number of visits and the number of Youtube video views will be a second measure of our success. And finally the documentation of the completed rain gardens and the documented use of the rain gardens will be a measure of our success. The Rain gardens will remain active with the residents and serve as examples and education to other residents. The film, website, brochure, and press release will serve as long-term education resources for schools, business, organizations, and the general public.

5. BUDGET AND SCHEDULE
SCHEDULE

Activity	Schedule
Approved Grant Award Agreement/Notice to Proceed (NTP)	NTP (approx. March 30, 2015)
Event Planning/Creation of the brochure/poster for advertisement/copies in newsletter	Neighborhood Executive Board Meeting April 9, 2015
Applications distributed	Neighborhood Newsletter April 10, 2015
Applications accepted	Neighborhood Public Meeting April 23, 2015
Participants selected	Special Board Meeting April 30, 2015
Film Initial Interviews	April 2015
Supplies purchased for selected residents	Early May 2015
Training event and Educational Workshop	Neighborhood Public Meeting Late May 2015
Rain Garden installation	Late May 2015
Filming of Installation	Late May 2015
Filming of Interviews	September 2015
Final films produced	October 2015
Produce website	October 2015

Present videos, reports, and rewards at November 2015 neighborhood public meeting.	November 2015
Provide Project Final Report to UG	30 days after Project completion (by November 2015)

BUDGET

Type of Expense	Participants	Item	Unit Price	Quantity	Total Expense
Consultant	Dr. Cynthia Annett	Scientific Consultation	\$50/hr	5 hours	\$250
Consultant	Scott Lemmon	Production Consultation	\$25/hr	60 hours	\$1500
Consultant	Riverview Garden Center	Gardening Consultation	\$50/hr	7 hours	\$350
Consultant	Riverview Acres Crime Eliminators Executive Board	Oversite, applicant review, award selection	\$50/hr	4 board members	\$200
Materials	The Riverview Greenhouse/ other garden centers as needed	Assortment of items for Rain Garden	\$350	5 Rain Gardens	\$1750
HD Camera Rental	Wednesday Media Program	Film Production	\$300	1 Camera	\$300
Innovation Award	Executive Board select resident for Innovation Award	1st place award	\$250	1 - 1st place award	\$250
Innovation Award	Executive Board select resident for	2nd place award	\$150	1- 2nd place award	\$150

	Innovation Award				
Innovation Award	Executive Board select resident for Innovation Award	3rd place award	\$75	1 - 3rd place award	\$75
Supplies	Organization	Brochure	\$1/Copy	100 Brochures	\$100
Supplies	Organization	DVD's	\$25/100	100 DVD's	\$25
				Total Project Budget	\$4950

6. SUPPORTING DOCUMENTATION

Ms. Sarah Fjell, P.E.
 Stormwater Education Grant Program Administrator
 Public Works Department
 701 N. 7th Street
 Kansas City, Kansas 66101

3 March 2015

Dear Ms. Fjell,

I have the pleasure of writing in support of the Riverview Acres Crime Eliminator's application for a 2015 Stormwater Quality Education Grant. I have been working with this neighborhood organization for the past year to help them build capacity for outreach and education on environmental concerns. Although they border a highly developed area, this neighborhood still contains considerable green space and a more rural aspect than areas to the north or east. They span the boundary of two watersheds (Little Turkey Creek and Mill Creek, both in the Lower Kansas River watershed). As a result, there are real possibilities for creating stormwater management Best Management Practices that will benefit the Kansas River. BMPs in this area can also help conserve agricultural and open areas that are important to their quality of life, and can provide a buffer for reducing the impacts of the more developed parts of the county on the river. I will be happy to provide them with my scientific expertise to ensure that their project produces high quality materials that can be shared throughout the region.

Riverview Garden Center
7851 Riverview
Kansas City, KS 66111
913-299-6184 Fax 913-299-6294

March 4, 2015

Ms. Sarah Fjell, P.E.
Stormwater Education Grant Program Administrator
Public Works Department
701 N. 7th Street
Kansas City, KS 66101

Dear Ms. Fjell,

We are honored to be writing in support of the Riverview Acres Crime Eliminator's application for a 2015 Stormwater Quality Education Grant.

Riverview Garden Center, Inc. has been in business since 1983. We grow all of our plants by seeds or cuttings and do them all by hand. Mike Murray is the owner and grower and has been in the horticultural industry for 57 years. Riverview Garden Center sits on 10 acres of which we grow 8 acres of organic produce. We have 8 greenhouses on the property...approximately 22,000 square feet of growing space.

Riverview Garden Center, Inc. Will be happy to provide Riverview Acres Crime Eliminators with knowledge and expertise of rain garden designs and have plants available to purchase that are appropriate for each design.

In addition, Mike and Kristen Murray agree to provide 7 hours of their time to help design the rain gardens and suggest specific plants to be used.

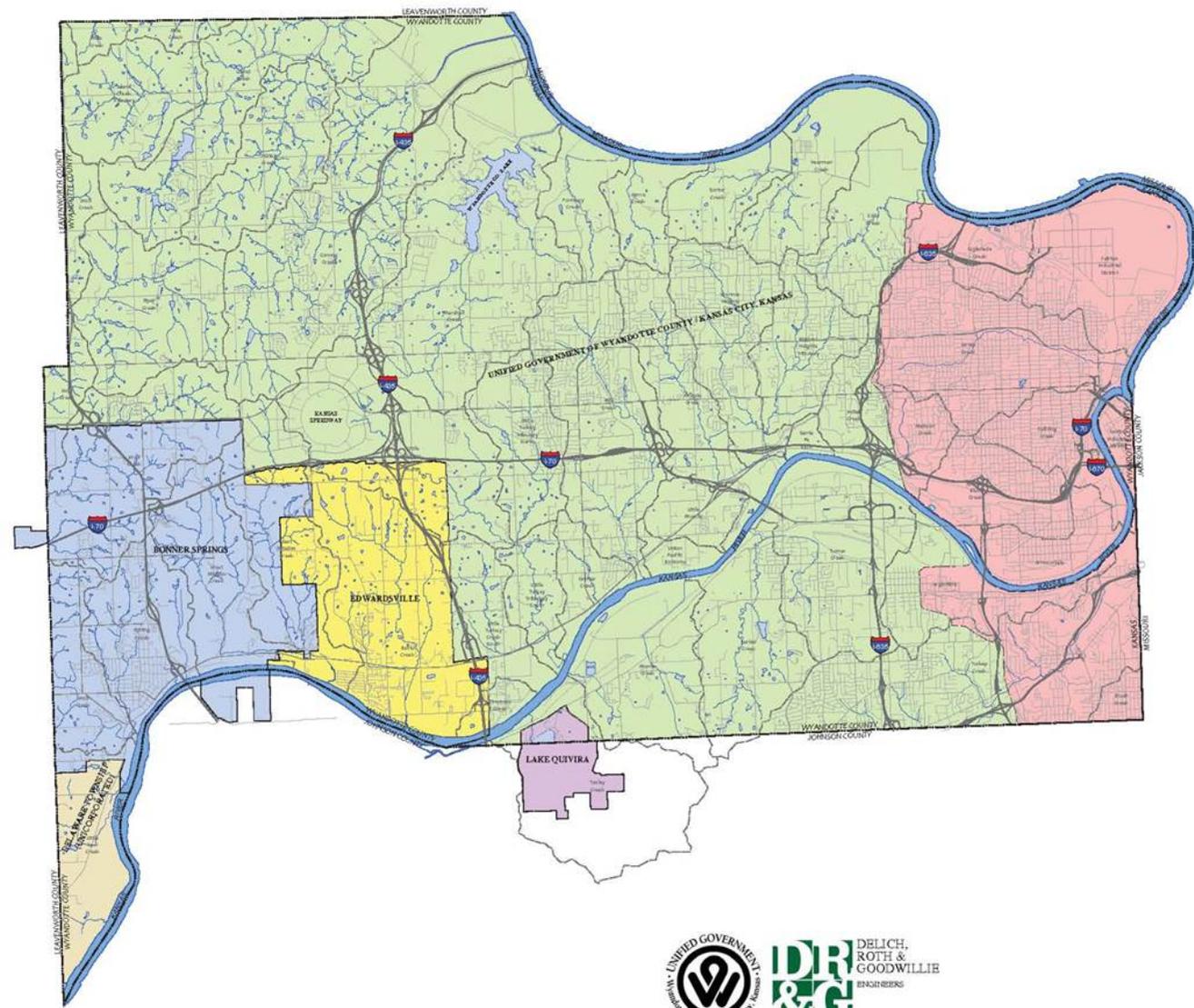
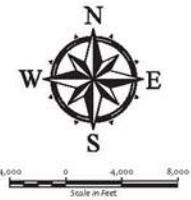
If you have any questions, please do not hesitate to call us or email us at rivgarden@gmail.com.

Sincerely,


Mike & Kristen Murray

APPENDIX B – SUPPORTING PROGRAM DATA

**APPENDIX B.1 Unified Government or Wyandotte County/Kansas City, Kansas MS4
Service Area Map**



LEGEND

- UNIFIED GOVERNMENT
MS4 SERVICE AREA

- AREAS NOT INCLUDED IN
THE UNIFIED GOVERNMENT'S
MS4 SERVICE AREA**

- CITY OF KANSAS CITY, KANSAS
CSS AREA
(NINE MINIMUM CONTROLS APPLY)

- CITY OF BONNER SPRINGS, KANSAS

- CITY OF EDWARDSVILLE, KANSAS

- CITY OF LAKE QUIVIRA, KANSAS

- DELAWARE TOWNSHIP,
WYANDOTTE COUNTY, KANSAS
(UNINCORPORATED AND OUTSIDE
OF URBANIZED AREA)



APPENDIX B.2 Illicit Discharge Detection & Elimination (IDDE) Program

2015 IDDE Investigation Summary

Date Initiated	Location	Date Closed	Responder	Departments Involved	Suspected Discharge	MS4 or Combined Sewer Area	Comments
18-Mar-15	Near intersection of France Family Drive and Village West Parkway. Located at Outfall 154-593-DP	Will inspect outfall in 2016	Clinton Manderfeld, John Pack	Engineering, WPC	Sewage	MS4	Dry weather outfall inspection found ponded water at end of outfall with sewage smell. Lab results were inconclusive.
8-Apr-15	Lat.=39.0494 Long.=-94.7830 Located at Outfall 335-501-DP.	May-15	John Pack	Engineering, WPC	Oils, Lubricants	MS4	Oil and lubricant did make its way into the Kansas River. NOV was issued and party responsible for the incident remediated the storm sewer and fixed leak.
28-Sep-15	42nd Street and Speaker Road	28-Sep-15	Eric Nobert	Engineering	Sand	MS4	Spill (sand) located near Geiger Concrete. Geiger took responsibility of the spill, cleaned street and driveway of all sand.

UG Dry Weather Outfall Inspection Form

Date: _____ Time (24 hr): _____ Outfall ID: _____
 Investigator(s): _____

Outfall Information

Shape:	Circular	Rectangular	Elliptical	Arch	
Diameter/Dimensions:	_____		Height: _____	Width: _____	
	Material	Reinforced Concrete Cast in Place Conc	Corrugated Metal Precast Concrete	HDPE Vitrified Clay	PVC Other: _____
Discharge Type:	End	Flared End Section	Headwall	Wingwall	Other: _____

If outfall is a box culvert, # of barrels: _____

Does map information about outfall match actual outfall?	Yes	No
--	-----	----

Is flow present at outfall?	Yes	No
-----------------------------	-----	----

If no flow is present, proceed to comments.

Indicator	Description	Relative Severity Index (0-3)			
Odor	Sewage Rancid/Sour Petroleum/Gas	0-None	1-Faint	2-Easily detected	3-Noticeable from a distance
	Sulfide Other: _____ None				
Color	Clear Brown Grey Yellow	0-Clear	1-Faint color in sample bottle	2-Clearly visible in bottle	3-Clearly visible in outfall flow
	Green Orange Red Other: _____				
Turbidity	Yes None	0-None	1-Slight cloudiness	2-Cloudy	3-Opaque
Floatables (NOT Trash)	Sewage(Toilet Paper) Suds None	0-None	1-Few/Slight; origin not obvious	2-Some; indications of origin	3-Some; clear origin
	Petroleum (Oil Sheen) Other: _____				

Sample Collected?	Yes	No	Reason if no sample taken: _____
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Comments: _____

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
116-502-DP	31-Mar-15	DS/CM	YES	NO
116-555-DP	31-Mar-15	DS/CM	NO	
116-564-DP	31-Mar-15	DS/CM	NO	
116-588-DP	31-Mar-15	DS/CM	YES	NO
117-518-DP	18-Mar-15	JR, CM	NO	
117-536-DP	18-Mar-15	JR, CM	NO	
118-545-DP	18-Mar-15	JR, CM	NO	
119-513-DP	18-Mar-15	JR, CM	YES	NO
119-559-DP	18-Mar-15	JR, CM	NO	
120-513-DP	18-Mar-15	JR, CM	NO	
120-589-DP	18-Mar-15	JR, CM	YES	NO
121-560-DP	31-Mar-15	DS/CM	NO	
122-528-DP	31-Mar-15	DS/CM	YES	NO
122-584-DP	31-Mar-15	DS/CM	NO	
122-603-DP	31-Mar-15	DS/CM	NO	
122-626-DP	31-Mar-15	DS/CM	YES	NO
123-570-DP	31-Mar-15	DS/CM	NO	
123-582-DP	31-Mar-15	DS/CM	NO	
123-636-DP	31-Mar-15	DS/CM	NO	
125-554-DP	31-Mar-15	DS/CM	NO	
125-555-DP	31-Mar-15	DS/CM	NO	
125-556-DP	31-Mar-15	DS/CM	NO	
125-558-DP	31-Mar-15	DS/CM	NO	
125-559-DP	31-Mar-15	DS/CM	NO	
125-564-DP	31-Mar-15	DS/CM	NO	
132-572-DP	26-Jan-15	JP, CM	NO	
132-582-DP	26-Jan-15	JP, CM	NO	
133-573-DP	26-Jan-15	JP, CM	NO	
133-597-DP	26-Jan-15	JP, CM	NO	
141-575-DP	26-Jan-15	JP, CM	YES	NO
142-597-DP	26-Jan-15	JP, CM	NO	
143-536-DP	26-Jan-15	JP, CM	YES	NO
143-538-DP	26-Jan-15	JP, CM	YES	NO
143-613-DP	26-Jan-15	JP, CM	NO	
150-647-DP	31-Mar-15	DS/CM	NO	
151-523-DP	31-Mar-15	DS/CM	NO	
151-561-DP	31-Mar-15	DS/CM	NO	
151-562-DP	31-Mar-15	DS/CM	NO	
151-564-DP	31-Mar-15	DS/CM	YES	NO
152-537-DP	31-Mar-15	DS/CM	NO	
152-564-DP	31-Mar-15	DS/CM	NO	
153-563-DP	18-Mar-15	JR, CM	NO	

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
154-501-DP	18-Mar-15	JR, CM	NO	
154-507-DP	18-Mar-15	JR, CM	NO	
154-511-DP	18-Mar-15	JR, CM	NO	
154-515-DP	18-Mar-15	JR, CM	NO	
154-528-DP	18-Mar-15	JR, CM	YES	NO
154-529-DP	18-Mar-15	JR, CM	YES	NO
154-554-DP	18-Mar-15	JR, CM	YES	NO
154-566-DP	18-Mar-15	JR, CM	NO	
154-567-DP	18-Mar-15	JR, CM	NO	
154-587-DP	18-Mar-15	JR, CM	NO	
154-593-DP	18-Mar-15	JR, CM	YES	YES
154-616-DP	18-Mar-15	JR, CM	NO	
154-654-DP	18-Mar-15	JR, CM	NO	
154-659-DP	18-Mar-15	JR, CM	NO	
155-594-DP	18-Mar-15	JR, CM	YES	NO
156-604-DP	18-Mar-15	JR, CM	NO	
157-588-DP	31-Mar-15	DS/CM	NO	
157-594-DP	31-Mar-15	DS/CM	NO	
157-599-DP	31-Mar-15	DS/CM	NO	
157-618-DP	31-Mar-15	DS/CM	NO	
158-514-DP	31-Mar-15	DS/CM	NO	
159-505-DP	31-Mar-15	DS/CM	NO	
166-506-DP	26-Jan-15	JP, CM	YES	NO
166-510-DP	26-Jan-15	JP, CM	YES	NO
166-549-DP	26-Jan-15	JP, CM	NO	
167-507-DP	26-Jan-15	JP, CM	YES	NO
167-583-DP	26-Jan-15	JP, CM	NO	
167-590-DP	26-Jan-15	JP, CM	NO	
167-626-DP	26-Jan-15	JP, CM	YES	NO
169-516-DP	26-Jan-15	JP, CM	YES	NO
169-530-DP	26-Jan-15	JP, CM	NO	
176-602-DP	26-Jan-15	JP, CM	NO	
177-506-DP	26-Jan-15	JP, CM	NO	
177-507-DP	26-Jan-15	JP, CM	YES	NO
178-533-DP	10-Mar-15	JP, CM	NO	
178-540-DP	10-Mar-15	JP, CM	NO	
179-508-DP	10-Mar-15	JP, CM	YES	NO
179-530-DP	10-Mar-15	JP, CM	YES	NO
190-514-DP	4-Mar-15	CM	NO	
202-504-DP	10-Mar-15	JP, CM	NO	
203-530-DP	26-Jan-15	JP, CM	YES	NO
203-535-DP	26-Jan-15	JP, CM	NO	

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
203-566-DP	26-Jan-15	JP, CM	NO	
203-572-DP	26-Jan-15	JP, CM	NO	
203-581-DP	10-Mar-15	JP, CM	YES	NO
204-503-DP	26-Jan-15	JP, CM	NO	
204-574-DP	26-Jan-15	JP, CM	NO	
204-588-DP	26-Jan-15	JP, CM	NO	
205-543-DP	26-Jan-15	JP, CM	NO	
211-503-DP	26-Jan-15	JP, CM	NO	
213-582-DP	26-Jan-15	JP, CM	NO	
213-599-DP	26-Jan-15	JP, CM	YES	NO
213-602-DP	26-Jan-15	JP, CM	YES	NO
214-524-DP	10-Mar-15	JP, CM	YES	NO
214-574-DP	10-Mar-15	JP, CM	YES	NO
214-579-DP	10-Mar-15	JP, CM	NO	
214-617-DP	10-Mar-15	JP, CM	YES	NO
215-508-DP	10-Mar-15	JP, CM	YES	NO
238-501-DP	11-Mar-15	JP, CM	NO	
238-526-DP	11-Mar-15	JP, CM	NO	
239-545-DP	10-Mar-15	JP, CM	NO	
239-585-DP	10-Mar-15	JP, CM	NO	
239-599-DP	11-Mar-15	JP, CM	NO	
240-568-DP	10-Mar-15	JP, CM	NO	
240-586-DP	10-Mar-15	JP, CM	NO	
250-546-DP	26-Jan-15	JP, CM	YES	NO
275-537-DP	26-Jan-15	JP, CM	NO	
289-649-DP	19-Nov-15	JP, CM	NO	
321-516-DP	11-Mar-15	JP, CM	NO	
321-518-DP	11-Mar-15	JP, CM	NO	
321-521-DP	11-Mar-15	JP, CM	NO	
321-530-DP	11-Mar-15	JP, CM	NO	
322-538-DP	11-Mar-15	JP, CM	NO	
322-543-DP	11-Mar-15	JP, CM	NO	
322-559-DP	11-Mar-15	JP, CM	NO	
322-599-DP	11-Mar-15	JP, CM	NO	
346-505-DP	11-Mar-15	JP, CM	NO	
346-509-DP	11-Mar-15	JP, CM	NO	
346-521-DP	11-Mar-15	JP, CM	NO	
347-539-DP	11-Mar-15	JP, CM	YES	NO
347-543-DP	11-Mar-15	JP, CM	YES	NO
383-506-DP	11-Mar-15	JP, CM	NO	
383-509-DP	11-Mar-15	JP, CM	NO	
383-512-DP	11-Mar-15	JP, CM	NO	

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
384-509-DP	11-Mar-15	JP, CM	YES	NO
384-523-DP	11-Mar-15	JP, CM	NO	
409-501-DP	11-Mar-15	JP, CM	YES	NO
409-525-DP	11-Mar-15	JP, CM	YES	NO
410-522-DP	11-Mar-15	JP, CM	NO	
410-543-DP	11-Mar-15	JP, CM	YES	NO
410-548-DP	11-Mar-15	JP, CM	NO	
420-513-DP	17-Mar-15	JR, CM	NO	
426-543-DP	16-Mar-15	JR, CM	NO	
426-561-DP	16-Mar-15	JR, CM	NO	
426-564-DP	16-Mar-15	JR, CM	NO	
426-602-DP	16-Mar-15	JR, CM	YES	NO
426-610-DP	16-Mar-15	JR, CM	NO	
426-615-DP	16-Mar-15	JR, CM	NO	
428-502-DP	16-Mar-15	JR, CM	YES	NO
428-524-DP	16-Mar-15	JR, CM	YES	NO
429-576-DP	11-Mar-15	JP, CM	NO	
429-579-DP	11-Mar-15	JP, CM	NO	
429-580-DP	11-Mar-15	JP, CM	NO	
429-601-DP	12-Mar-15	JP, CM	NO	
429-604-DP	11-Mar-15	JP, CM	YES	NO
430-513-DP	11-Mar-15	JP, CM	YES	NO
448-510-DP	12-Mar-15	JP, CM	YES	NO
448-515-DP	12-Mar-15	JP, CM	NO	
448-519-DP	12-Mar-15	JP, CM	NO	
449-544-DP	12-Mar-15	JP, CM	NO	
449-559-DP	11-Mar-15	JP, CM	YES	NO
449-560-DP	11-Mar-15	JP, CM	YES	NO
450-514-DP	12-Mar-15	JP, CM	NO	
450-538-DP	11-Mar-15	JP, CM	NO	
450-548-DP	12-Mar-15	JP, CM	NO	
450-557-DP	11-Mar-15	JP, CM	NO	
450-569-DP	12-Mar-15	JP, CM	NO	
450-607-DP	12-Mar-15	JP, CM	NO	
450-649-DP	12-Mar-15	JP, CM	NO	
450-650-DP	12-Mar-15	JP, CM	NO	
450-666-DP	12-Mar-15	JP, CM	NO	
452-508-DP	17-Mar-15	JR, CM	NO	
453-507-DP	17-Mar-15	JR, CM	NO	
457-512-DP	17-Mar-15	JR, CM	NO	
457-524-DP	17-Mar-15	JR, CM	NO	
465-507-DP	17-Mar-15	JR, CM	YES	NO

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
466-513-DP	17-Mar-15	JR, CM	NO	
467-524-DP	17-Mar-15	JR, CM	NO	
467-535-DP	17-Mar-15	JR, CM	NO	
467-597-DP	17-Mar-15	JR, CM	NO	
467-601-DP	17-Mar-15	JR, CM	NO	
468-530-DP	17-Mar-15	JR, CM	YES	NO
468-559-DP	17-Mar-15	JR, CM	NO	
470-519-DP	17-Mar-15	JR, CM	NO	
470-596-DP	17-Mar-15	JR, CM	NO	
470-607-DP	17-Mar-15	JR, CM	NO	
471-587-DP	17-Mar-15	JR, CM	YES	NO
471-596-DP	17-Mar-15	JR, CM	NO	
471-601-DP	16-Mar-15	JR, CM	NO	
471-610-DP	16-Mar-15	JR, CM	NO	
471-634-DP	16-Mar-15	JR, CM	NO	
471-674-DP	17-Mar-15	JR, CM	NO	
472-545-DP	16-Mar-15	JR, CM	NO	
472-622-DP	16-Mar-15	JR, CM	NO	
473-563-DP	12-Mar-15	JP, CM	NO	
491-544-DP	12-Mar-15	JP, CM	NO	
493-541-DP	17-Mar-15	JR, CM	NO	
493-569-DP	17-Mar-15	JR, CM	NO	
493-597-DP	17-Mar-15	JR, CM	NO	
493-602-DP	17-Mar-15	JR, CM	NO	
495-514-DP	17-Mar-15	JR, CM	YES	NO
495-531-DP	17-Mar-15	JR, CM	YES	NO
495-540-DP	17-Mar-15	JR, CM	NO	
495-541-DP	17-Mar-15	JR, CM	YES	NO
496-507-DP	17-Mar-15	JR, CM	NO	
496-585-DP	17-Mar-15	JR, CM	YES	NO
496-603-DP	17-Mar-15	JR, CM	NO	
496-607-DP	17-Mar-15	JR, CM	YES	NO
497-524-DP	17-Mar-15	JR, CM	NO	
497-544-DP	17-Mar-15	JR, CM	NO	
498-511-DP	17-Mar-15	JR, CM	NO	
498-541-DP	17-Mar-15	JR, CM	YES	NO
499-514-DP	17-Mar-15	JR, CM	YES	NO
510-521-DP	17-Mar-15	JR, CM	NO	
512-534-DP	17-Mar-15	JR, CM	NO	
512-537-DP	17-Mar-15	JR, CM	NO	
531-521-DP	6-Mar-15	DS/CM	NO	
531-525-DP	6-Mar-15	DS/CM	NO	

2015 Dry Weather Major Outfall Inspections

NODE ID#	DATE	INSPECTED BY	OUTFALL FLOWING?	SUSPICION OF ILLICIT DISCHARGE?
535-514-DP	6-Mar-15	DS/CM	NO	
535-539-DP	6-Mar-15	DS/CM	NO	
535-545-DP	6-Mar-15	DS/CM	NO	
536-520-DP	6-Mar-15	DS/CM	YES	NO
537-518-DP	6-Mar-15	DS/CM	NO	
537-521-DP	6-Mar-15	DS/CM	NO	
537-522-DP	6-Mar-15	DS/CM	NO	
538-506-DP	18-Mar-15	JR, CM	NO	
546-533-DP	18-Mar-15	JR, CM	NO	
547-508-DP	18-Mar-15	JR, CM	NO	
548-562-DP	6-Mar-15	DS/CM	NO	
550-507-DP	6-Mar-15	DS/CM	NO	
550-514-DP	6-Mar-15	DS/CM	NO	
552-500-DP	6-Mar-15	DS/CM	NO	
554-548-DP	6-Mar-15	DS/CM	NO	
554-551-DP	6-Mar-15	DS/CM	NO	
572-527-DP	6-Mar-15	DS/CM	NO	
572-530-DP	6-Mar-15	DS/CM	NO	
572-532-DP	6-Mar-15	DS/CM	NO	
572-561-DP	6-Mar-15	DS/CM	NO	
572-565-DP	6-Mar-15	DS/CM	YES	NO
572-567-DP	6-Mar-15	DS/CM	NO	
572-578-DP	6-Mar-15	DS/CM	NO	
572-584-DP	6-Mar-15	DS/CM	YES	NO
574-510-DP	6-Mar-15	DS/CM	NO	
575-525-DP	6-Mar-15	DS/CM	NO	
576-521-DP	6-Mar-15	DS/CM	YES	NO
576-532-DP	6-Mar-15	DS/CM	NO	
576-540-DP	6-Mar-15	DS/CM	NO	
578-514-DP	6-Mar-15	DS/CM	YES	NO
578-519-DP	6-Mar-15	DS/CM	NO	
580-509-DP	18-Mar-15	JR, CM	YES	NO
590-504-DP	6-Mar-15	DS/CM	NO	
593-516-DP	6-Mar-15	DS/CM	NO	
595-524-DP	6-Mar-15	DS/CM	NO	
595-556-DP	6-Mar-15	DS/CM	NO	
595-624-DP	6-Mar-15	DS/CM	YES	NO
596-514-DP	6-Mar-15	DS/CM	YES	NO
596-515-DP	6-Mar-15	DS/CM	NO	
626-506-DP	6-Mar-15	DS/CM	NO	
626-515-DP	6-Mar-15	DS/CM	NO	
629-515-DP	6-Mar-15	DS/CM	NO	

APPENDIX B.3 Overall MS4 Program Training Summary

Illicit Discharge Detection and Elimination

Erosion & Sediment Control

Post-Construction Stormwater Management Program



US EPA Stormwater Program's Webcast Series

Conducting Illicit Discharge Detection and Elimination Investigations (IDDE 201)



Webcast: Wednesday, July 11, 2007

Two-hour audio Web broadcast

Eastern: 12:00 pm – 2:00 pm

Central: 11:00 pm – 1:00 pm

Mountain: 10:00 am – 12:00 pm

Pacific: 9:00 am – 11:00 pm

Session Description:

The prospect of developing and administering an illicit discharges detection and elimination (IDDE) program can be daunting, complex and challenging. Detecting and eliminating illicit discharges involves complex detective work, which makes it hard to establish a rigid prescription to “hunt down” and correct all illicit connections. Frequently, there is no single approach to take, but rather a variety of ways to get from detection to elimination. Local knowledge, available resources, community size, development history, land use, and infrastructure can all play significant roles in determining which path to take.

Building on last year's introduction to IDDE, this webcast will discuss the field and lab methods necessary to conduct IDDE investigations. This webcast will start with a quick review of IDDE terminology and the basic components of an effective IDDE program. Detail will then be provided on how to prioritize field activities by conducting a desktop assessment of illicit discharge potential (IDP); how to conduct the Outfall Reconnaissance Inventory (ORI); post-screening prioritization; and detailed field sampling and lab analyses that may be used to confirm and identify illicit discharges.

To view last year's archived IDDE 101 webcast, go to www.epa.gov/npdes/stormwater, click on “Training & Meetings” on the right bar, then click on IDDE 101 under archived webcasts.

Speakers: Jennifer Zielinski, Center for Watershed Protection
Harry Stark, Cuyahoga County Board of Health
Nikos Singelis, U.S. EPA's Stormwater Program

Registration: You must register in advance to attend this webcast. Visit the NPDES Web site at www.epa.gov/npdes/training to register.

Note: Your computer must have the capability of playing sound in order to attend this webcast.

Tentative future dates and topics

9/5/2007 Post-Construction 201

The materials in this Webcast have been reviewed by EPA staff for technical accuracy. However, the views of the speakers and the speaker's organization are their own and do not necessarily reflect those of the EPA. Mention of any commercial enterprise, product, or publication does not mean that EPA endorses them.

October 7, 2015

Conducting Illicit Discharge Detection &
Elimination Investigations

- EPA webcast series

12:00 - 2:00

Name

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Saran Fjell White

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 - Fluvial Geomorphology
- Environmental Works, Inc.
 - Project Manager
- Longboat Guide
 - Outdoor Extraordinaire



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Outline

- History
- Define stormwater
 - Potential pollutants and their effects
- Laws and Regulatory Agencies
- Permits
 - Requirements
- Who is regulated
 - Construction and Land Disturbance
- SWPPP
 - Elements of a SWPPP
- BMPs
- Sampling
- Enforcement
- What not to do!

The Beginning

- 1880s and 1890s, Congress directed USACE to prevent dumping and filling in the nation's harbors, and the program was vigorously enforced. Congress first addressed water pollution issues in the Rivers and Harbors Act of 1899, giving the Corps the authority to regulate most kinds of obstructions to navigation, including hazards resulting from effluents.



Some sections of the 1899 act have been superseded by various amendments, including the 1972 CWA, while other notable legislative predecessors include:

- *Public Health Service Act of 1912* expanded the mission of the United States Public Health Service to study problems of sanitation, sewage and pollution.
- *Oil Pollution Act of 1924* prohibited the intentional discharge of fuel oil into tidal waters and provided authorization for USACE to apprehend violators. This was repealed by the 1972 CWA, reducing the Corps' role in pollution control to the discharge of dredged or fill material.

We're Getting There

- *Federal Water Pollution Control Act of 1948* created a comprehensive set of water quality programs that also provided some financing for state and local governments. Enforcement was limited to interstate waters. The Public Health Service provided financial and technical assistance.
- *Water Quality Act of 1965* required states to issue water quality standards for interstate waters, and authorized the newly created Federal Water Pollution Control Administration to set standards where states failed to do so.

The Early Years



Cuyahoga River, circa 1969

Pressure is Mounting



1962

1970

The New York Times

1969

History

- National Environmental Policy Act of 1969
 - Signed into law by Nixon on January 1st, 1970

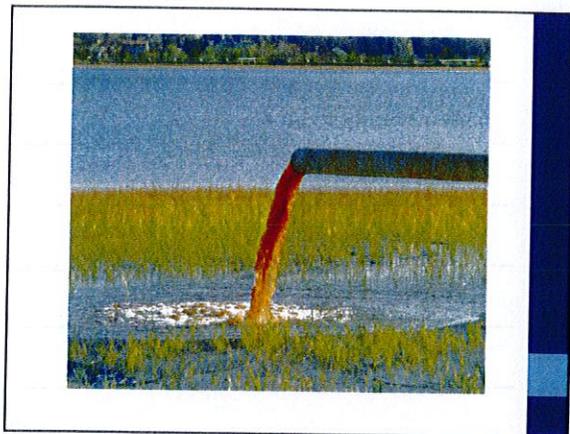
In 1970, President Richard Nixon proposed an executive reorganization that would consolidate many of the federal government's environmental responsibilities under one agency, a new "Environmental Protection Agency".



More History

- Clean Water Act-1972
 - All waters with a "significant nexus" to "navigable waters" are covered under the CWA
 - "navigable waters"
 - "waters of the state"/ "waters of the United States"
- National Pollution Discharge Elimination System (NPDES)
 - Section 402 of the Clean Water Act of 1972
 - Addressed **point source** industrial polluters

"Any single identifiable source of pollution from which pollutants are discharged, such as a pipe..."



What's Stormwater Runoff
and Why are the Impacts?

The saga continues...

- Water Quality Act of 1987
 - Addressed **non-point** including stormwater discharges
 - Required permits for stormwater discharges from:
 - Municipal Separate Storm Sewer Systems (MS4s)
 - Industrial Activities
 - Construction Activities (Size Dependent)

Non-point source: noun

"Unlike pollution from industrial and sewage treatment plants, nonpoint source (NPS) pollution comes from many diffuse sources. NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters and ground waters."

<http://water.epa.gov/polwaste/nps/whats.cfm>

Stormwater Runoff Control



What is Stormwater Runoff and What are Its Impacts?

- Stormwater runoff is water from rain or snowmelt that does not immediately infiltrate into the ground and flows over or through natural or man-made storage or conveyance systems.



Stormwater Runoff Continued...

Stormwater runoff can contain harmful pollutants (e.g. sediment and chemicals) and other pollutants such as trash, debris, and oil & grease when management practices allow exposure of construction material to stormwater.



Why Sediment Is An Issue?

- Some fish require clear water to see prey
- Sediment fills in habitat for macroinvertebrates
- Sediment covers fish eggs and nests
- Sediment can negatively impact fish gills
- Sediment blocks sunlight, preventing the photosynthesis which is the base of the aquatic food chain

Continued

- Sediment absorbs heat, increasing water temperature
- Filter feeders take in sediment during feeding, and accumulate pollutants
- Sediment is a source of nutrients that can cause algae blooms and green water, impacting recreation activities such as swimming and boating

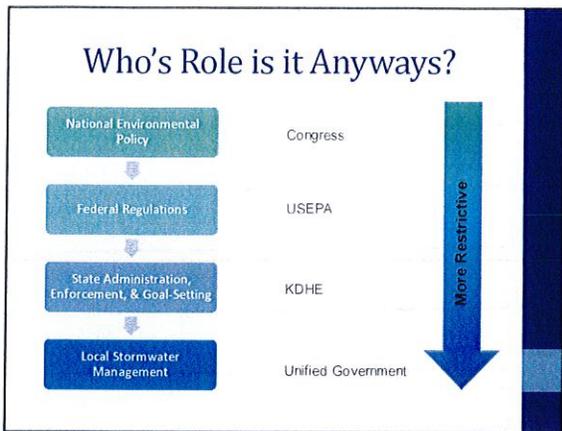
Additional sources of exposure to pollutants include:

- Accidental spills and leaks
- Improper waste disposal
 - Trash and debris
- Illicit connections to storm sewers

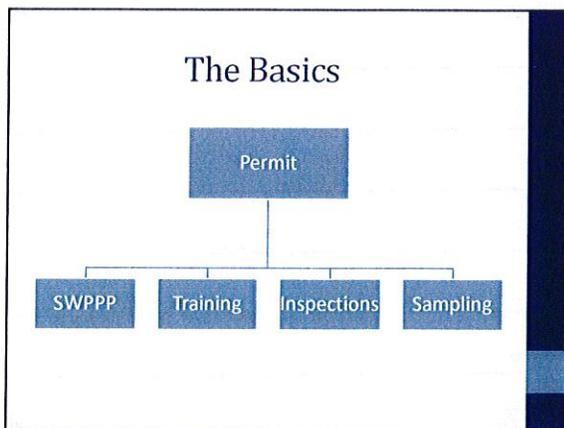


36,000 Ft View









KDHE Permit, S-MCST-0312-1

- Construction permits are used to ensure that the design, the installation, and the maintenance of effective erosion and sediment controls to minimize the discharge of pollutants
- There are some minimum standards that must be met for design, installation, and maintenance

Permit

- Notice of Intent
 - Must be submitted 60 days prior to commencement.
 - \$60/year
 - Can not begin work until you have land disturbance authorization.
- After NOI and Permit from KDHE submit application to UG.



Who is covered under the permit?



Construction General Permit

All projects covered under this permit must also be identified as part of the covered area

- General permit authorizes the discharge of stormwater from land disturbance sites
- Authorizes discharges of few non-stormwater from construction support activities
 - Hydrant flushing, street rinsing, irrigation, emergency activities, dust control, uncontaminated AC condensate, treated dewatering activities.

Sampling Requirements and Effluent Limitations

- At this time there are no sampling requirements for land disturbance activities under this permit
- KDHE or the UG may require sampling and reporting due to illegal discharges or compliance issues at any site
 - If this is required, the regulatory authority will specify in writing any sampling requirements including benchmark monitoring data

Stabilization and Permit Termination

- SWPPP's may be terminated when project is stabilized
- Project is considered stabilized when perennial vegetation, pavement, buildings or structures using permanent materials cover all disturbed areas.
- If stabilizing with vegetation must have at least 70% plant density over 100% of the site.
- Refer to Administrative Regulation 1-12 for additional site requirements to maintain compliance with SWPPP and permit.

Unified Government Stormwater Discharge Control Regulations



- Article XIV – Land Disturbance (Section 8-630 through 8-629)
- No person SHALL undertake any land disturbance activity or in any way disturb the surface of the land, except as provided in these articles.
- No person may engage in any land disturbance activity, including persons engaged in land disturbance activity related to utility installation or maintenance, without first obtaining a land disturbance permit from the Unified Government.
- Any person (discharger, operator) shall allow the director, or their appointed staff, to all parts of the premises for purposes of inspection, sampling, examination and copying of records that are required to be kept under their NPDES permit.

<http://tinivurl.com/pasuptkw>

Municipal Code

- To protect water quality;
- To ensure City construction projects are conducted in a manner that complies with federal, state, and local regulations and the UG MS4 permit;
- To protect the City from civil, administrative or criminal penalties that may result from failure to comply
- All departments and private sectors shall comply with the KDHE General Permit for Construction and Land Disturbance Activities;
- Any project specific land disturbance permit;
- Local ordinances; and other requirements as necessary to protect water quality.



Obtaining a Permit

- Procedures:
 - All internal departments and private sector developers must notify Right-of-Way Manager (John Peck) of any City project that will disturb over one acre (cumulatively)
- Must submit:
 - Copy of Notice of Intent from KDHE
 - Erosion Control Plans
 - Application (must be notarized and signed by owner or owner representative)
 - Land Disturbance Permit
 - Fees (\$100 per disturbed acre)



Additional Considerations

- Update UG if scope changes:
 - Contamination is encountered;
 - Historical or archaeological site is discovered;
 - Site plans change.
- UG Stormwater Division shall conduct periodic oversight inspections of active construction projects (private & public)
 - In addition to regular and ongoing site inspections
- Project managers and site inspectors shall attend annual erosion and sediment control training
- After project completion, records shall be retained in accordance with permit requirements (3 years).



SWPPP

WHAT IS A SWPPP ?

A detailed plan that:

- Identified potential sources of stormwater pollution
- Describes the practices that will be used to prevent stormwater pollution.
- Identifies procedures the operator will implement to comply with all requirements in the construction general permit
- Written by:
 - Professional Engineer
 - CPECS
 - Landscape Architect



Elements of a SWPPP

- Stormwater pollution prevention team (PPT)
 - Site description
 - Summary of potential pollutant sources
 - Description of control measures
 - Schedules and procedures
 - Documentation to support eligibility considerations under other federal laws
 - Certification of the SWPPP
- If other written procedures are in place, such as SPCC or EMS, reference the applicable portions of those documents in lieu of duplicating.*

4 Step Process to a SWPPP

- Formation of a Pollution Prevention Team
- Assessment of potential stormwater pollution sources
- Selection of control measures
- Development of inspection/monitoring procedures & control measures maintenance



Stormwater Pollution Prevention Team

- Should consist of on-site people who are most familiar with the construction site and its operations.



Inspections & Monitoring

- SWPPP must define the procedures to follow for inspecting site and monitoring stormwater discharge.
- Stormwater permits typically require 3 types of inspections:
 - Routine facility inspections
 - Visual assessments (Industrial only)
 - Annual comprehensive site inspections (Industrial only)

SWPPP Development

- Site Assessment and Planning
- Selecting Erosion and Sediment Control BMPs
- Selecting Good Housekeeping BMPs
- Inspections, Maintenance, and Recordkeeping
- Certification and Notification
- SWPPP Implementation

Site Assessment and Planning

- Facility walk-through/site fingerprinting
 - Soil types, drainage patterns, existing vegetation and topography
- Identify
 - slopes
 - past soil contamination
 - receiving streams
 - storm drains



Site Evaluation Resource: TOPO Maps

Other Assessments

- Endangered Plant or Animal Species in Area
 - Documentation of Permit Eligibility Related to Endangered species
 - Must protect critical habitats
- Historic Sites that Require Protection



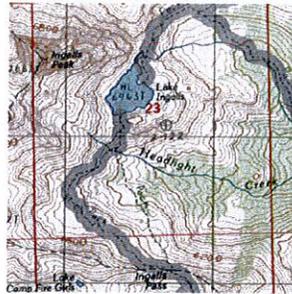
Indiana Bat-Endangered



Western Prairie Fringed Orchid -Threatened

Location & Site Maps

- SWPPP must include both a general location map and a detailed site map.
- General location map: Identifies nearby, but not necessarily adjacent, waterbodies around facility.
- Include:
 - Location of facility
 - Receiving waters of discharge



Site Map or Series of Maps



Keep accurate & up to date

- Disturbed areas
- Stormwater flow
- Protected areas
- Material Storage
- Vehicle Maintenance
- Fueling Areas
- Dumpster
- Spill Kits
- Stockpiles
- BMPs

Generic Site Inspection Report Form

Date: _____ Inspected by: _____
 Permit No.: _____ Inspected at: _____
 Project Name: _____
 Inspected on: _____

Y	N	NA	Inspection Checklist
			1. Is the permittee responsible for the project?
			2. Is the permittee responsible for the project?
			3. Is the permittee responsible for the project?
			4. Is the permittee responsible for the project?
			5. Is the permittee responsible for the project?
			6. Is the permittee responsible for the project?
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			14. Is the permittee responsible for the project?
			15. Is the permittee responsible for the project?
			16. Is the permittee responsible for the project?
			17. Is the permittee responsible for the project?
			18. Is the permittee responsible for the project?
			19. Is the permittee responsible for the project?
			20. Is the permittee responsible for the project?

Updating SWPPP

- Permittee shall amend and update the SWPPP as appropriate during term of project, at a minimum when:
 - Design, operation or maintenance BMPs is changed;
 - Design of construction project changed significantly;
 - Permittee's inspections indicate deficiencies (7 Days);
 - Regulatory agency notifies permittee in writing of deficiencies;
 - SWPPP is determined to be ineffective; and
 - Federal, state or local authority determines violations of water quality standards may have occurred.
- If modification to document corrective actions is made, a new certification statement must be signed and dated upon completion of the revision.



Documentation to keep with SWPPP

- Examples:
 - Permit records
 - Spill records
 - Employee training records
 - BMP Maintenance records
 - Inspection records
 - Monitoring records
 - Corrective action records



Final Elements of a SWPPP

- Documentation to support eligibility considerations under other federal, state or local laws
- If other written procedures are in place, such as SPCC or EMS, reference the applicable portions of those documents in lieu of duplicating
- Certification of the SWPPP
 - Facility executive or duly authorized representative of that executive sign and certify that the SWPPP meets all the requirements in the general permit.

Certification and Notification

- Certification
 - Site operator or person in charge must sign SWPPP (keep permit filed in SWPPP)
 - Must make statement in SWPPP similar to
 - *"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*
 - Check permit for specific language
- Notification
 - In general, it is important to notify state/ municipal regulatory agency of intent of activities
 - May be required to submit Notice of Intent (NOI)

SWPPP Implementation

- In order to ensure that the SWPPP is implemented and updated in accordance with regulatory requirements, you must do the following:
 - Train your staff and subcontractors
 - Ensure responsibility with contractors and subcontractors
 - Some state can hold other parties, not labeled as the operator, liable
 - Implement SWPPP before the start of construction
 - Conduct inspections and maintain BMP's as mentioned earlier
 - **Ensure removal of temporary BMP's**

Employee Training

- SWPPP Training is **required** for all employees, contractors, and sub-contractors who work in areas where construction activities or material handling activities are exposed to stormwater.
- Includes; inspectors, maintenance personnel, and members of the SWPPP Team.
- Training to be conducted at least annually, and whenever a new employee starts.





Very Important!

Recordkeeping & Reporting



- Document your compliance with the requirements of your permit!!
 - Permit records
 - Spill reports
 - Employee training records
 - Maintenance records
 - Inspection records
- All must be available on site in case of inspection by KDHE, UG, or USEPA
- Copy of SWPPP must be presented to anyone in charge of BMP's

Best Management Practices

Stormwater Management Principles

- Pollution prevention
- Good housekeeping
- Combining controls
- Examining Site's potential pollutant sources
- Maximizing infiltration
- Using existing vegetated areas
- Buffering on-site or adjacent water bodies or drainage systems
- Staging or phasing construction activity
- Using structural practices (as applicable)



Good Housekeeping

- Cost-effective way to maintain a clean & orderly project site to prevent potential pollution sources contacting stormwater.
- Benefits stormwater quality and makes the project site a clean, safe place for employees and clients.
- Examples include:
 - Regular waste disposal
 - Routine inspections for leaks in containers & for correct storage of materials
 - Ensure proper disposal of portable toilet waste!

THINK TIDY
GOOD HOUSEKEEPING IS ESSENTIAL TO SAFETY



Bad and good housekeeping

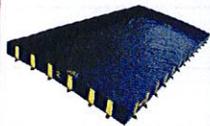
Maintenance



- Maintenance programs are intended to insure that structural control measures and construction equipment are kept in good operating condition and to prevent leaks & other releases of pollutants.
- Keep a maintenance log tracking equipment & stormwater control maintenance.
- Demonstrates to regulatory authorities implementation of maintenance program outlined in SWPPP.

Spill Prevention & Response

- Identify control measures used at site to minimize potential for spills, leaks, and other releases that may contact stormwater. Store petroleum, batteries, and other potential pollutants in a manner to prevent leaks or spills.
- All fueling facilities present shall at all times adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers. If your project site has more than 1,320 gallons of storage in drums, or aboveground tanks, you may also be required to develop a SPCC plan.
- Ensure employees are aware of procedures in the event of a spill or leak, including spill kit locations.



Waste, Garbage, and Floatable Debris

- You are responsible for making sure that stormwater runoff does not carry waste, garbage, and floatable debris to receiving waters.
- Implement good housekeeping measures such as keeping lids closed on dumpsters and sweeping.



Training

- Spill prevention and cleanup
- Basic purpose of BMP's
- Potential penalties for noncompliance
- BMP locations
- BMP installation requirements
- BMP maintenance
- Inspection and maintenance recordkeeping requirements



Selecting Control Measures

- Control Measures are:
- Best Management Practices (BMPs)
 - Non-structural control measures
 - Good housekeeping, employee training, site inspections, runoff management, spill prevention
 - Structural control measures
 - focus on installation of hard structures to control discharges.
 - Examples include:
 - Vegetative swales
 - Collection & reuse of stormwater
 - Inlet controls
 - Snow management
 - Infiltration devices
 - Wet retention measures



Erosion & Sediment Controls

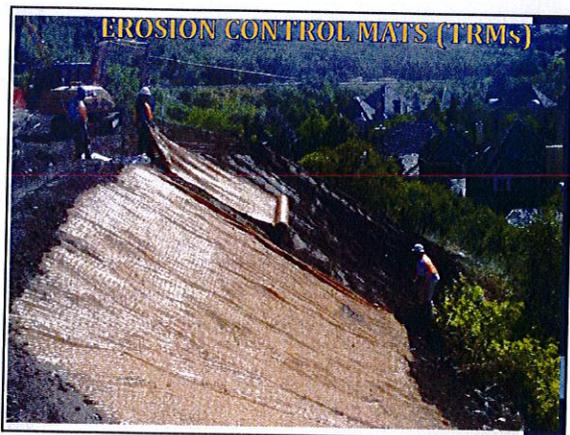
Construction & Land Disturbance

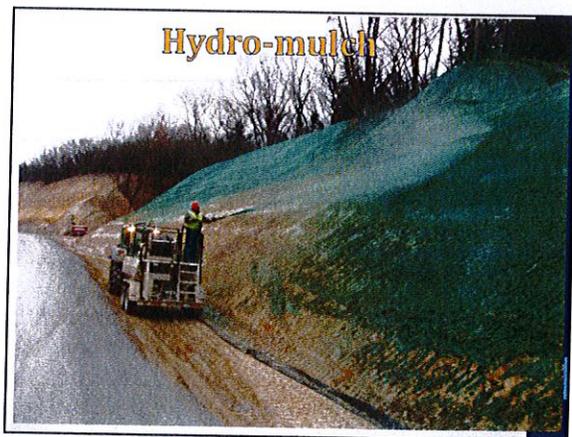
- Erosion control measures should be used as the primary line of defense.
- Sediment controls are used to back-up erosion controls.
- SWPPP should include:
 - Narrative description of areas of site susceptible to erosion.
 - Description of erosion and sediment control measures used at site to stabilize area and contain runoff.



Erosion Controls

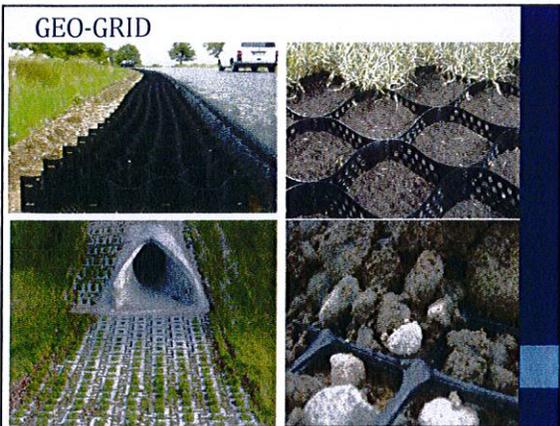
- **Temporary Control Measures**
 - Erosion control blankets
 - Hydro-mulch
 - Mulch
 - Diversion ditches or berms
 - Wattles, coir fiber logs and silt fence
 - Cationic Treatment Chemicals
- **Permanent**
 - Turf Reinforcement Mat
 - Geo-grids,
 - Structural measures
 - VEGETATION!!! (Naturally occurring and planted)







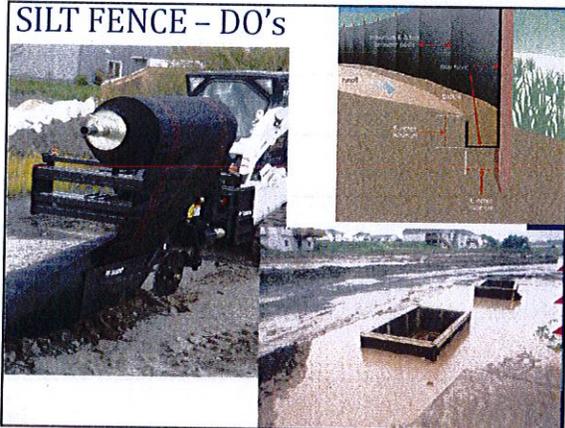




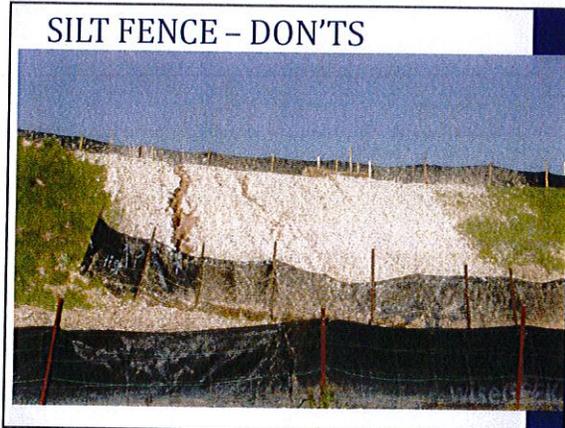
Sediment Controls

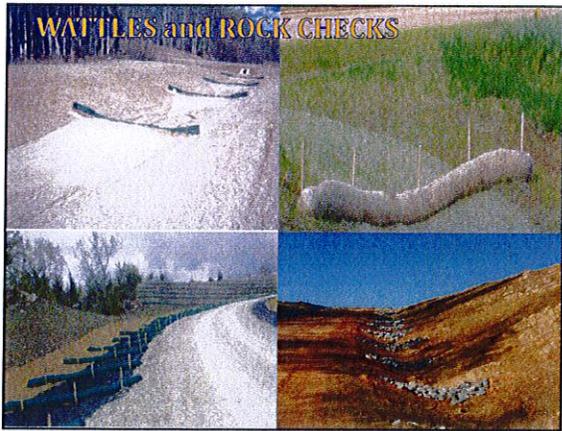
- **Temporary**
 - Silt Fence
 - Wattles (sediment retention fiber rolls (SRFR))
 - Rock Checks (construction entrance/exit)
 - Inlet protection
- **Permanent**
 - Structural (swales, wet ponds, bio retention cells)

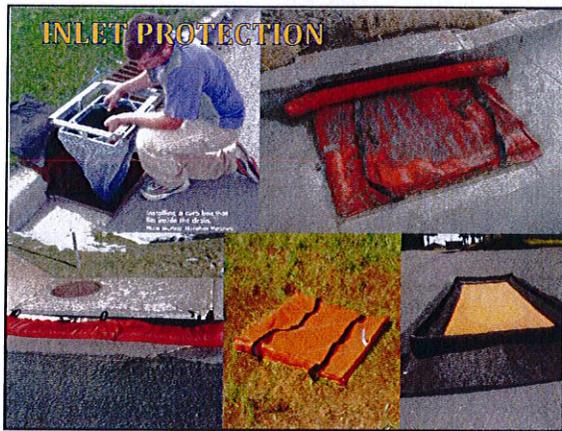
SILT FENCE - DO'S

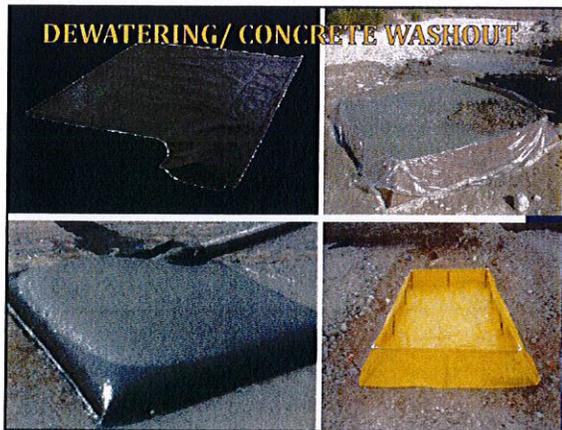


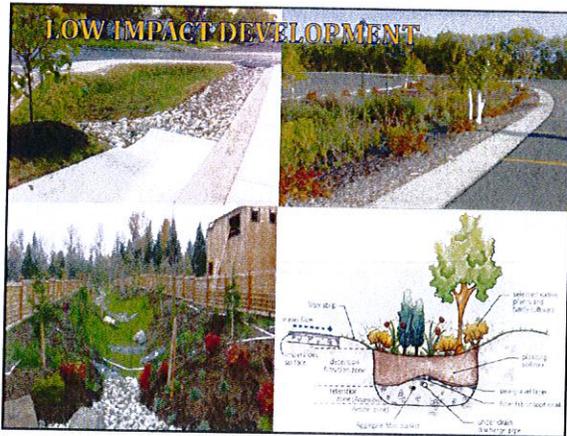
SILT FENCE - DON'TS











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filtrrexx
EARTH-SMART TECHNOLOGIES

Pollutant	Removal Rate (%)
SS	99%
MP	90%
TP	85%
Ammonia	75%
Phosphorus	70%
Heavy Metals	70%
Hydrocarbons	65%

INTRO TO POLLUTANT REMOVAL

Filtrrexx® consists of sediment control devices with soil or stone natural additives used to remove invisible pollutants. Learn how Filtrrexx® can:

- Remove up to 99% of total bacteria
- Remove up to 73% of heavy metals
- Remove up to 52% of nutrients
- Remove up to 99% of hydrocarbons

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BMPs **filtr**rexx
EARTH-SMART TECHNOLOGIES

EuroBMP® is:

TARGETED POLLUTANT REMOVAL

APPLICATIONS

BACTERIA Removal up to 99%	NUTRIENTS Removal up to 70%	HYDROCARBONS Removal up to 65%	HEAVY METALS Removal up to 70%	SUSPENDED SOLIDS TSS Removal up to 99%
--------------------------------------	---------------------------------------	--	--	--

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10 Keys to Effective Erosion and Sediment Control

- Minimize disturbed area and protect natural features and soil
- **Phase construction activity**
- Control stormwater flowing onto and through project
- **Stabilize soils promptly**
- Protect Slopes
- **Protect storm drain inlets**
- Establish perimeter controls
- Retain sediment on-site and control dewatering practices
- **Establish stabilized construction exits**
- Inspect and maintain controls

Compliance Assistance

- KDHE does and will offer compliance assistance, building on a pilot program for Community Services. KDHE will have a Community Services Coordinator to help communities, facilities with compliance assistance, possible funding and grants.
 - State regulatory agencies have for years provided Compliance Assistance Visits upon request.
- EPA has a policy on role of inspector in providing compliance assistance during inspection
 - Provide limited site specific compliance assistance
 - Not appropriate to provide site specific, interpretive technical and legal guidance.
 - Only provide assistance on state regs. that are identical to fed regs.

ENFORCEMENT

Common Compliance Problems

- No SWPPP developed
- Control Measures described in SWPPP not used
- No SWPPP on-site
- SWPPP not signed by responsible facility representative
- Pollution Prevention Team not up-to-date



- On-site staff not familiar with SWPPP
- Improper collection of visual assessment samples
- Uncovered dumpsters
- Poor employee / contract staff training
- Inspection or monitoring records not kept with SWPPP



Enforcement

- Begins with Letter of Warning or Notice of Violation issued as result of deficiencies found during inspection or concern investigation
 - Dept. must offer to meet to discuss violations and corrections
- If continued non-compliance, then will elevate to Notice of Violation or second Notice of Violation
- If still not corrected or continued issues with compliance at site, will be referred to Enforcement program and potentially to Attorney General's Office (Or could be referred to EPA)
 - There may be a Administrative Order on Consent, Schedule of Compliance, Consent Decree or an Injunction issued.
 - Will contain stipulated monetary penalties, possibly suspended penalties, and corrective actions.

EPA Enforcement

- Expedited Settlement Agreement (ESA)
- First launched ESO Program for Construction Stormwater in 2003 to compel compliance.
- Provide an efficient "real time" enforcement mechanism where violations can be quickly corrected and an appropriate penalty promptly collected.
- Intended to supplement, not replace, other more traditional enforcement approaches
- Qualifications to be met for site eligibility

EPA Revised ESO Program for Stormwater (Construction)

- Revisions in 2007:
 - All operators that are not repeat violators,
 - No violation of MSGP, CGP or individual permit in last 5 years
 - Not working at facility where had previous violation
 - Not had violations at two or more facilities under same ownership or operations
 - capped total SWPPP penalties at \$4,500, unless no SWPPP, \$5,000
 - ESOs not to be issued simultaneously with ACOs for same violation
 - Sites eligible where calculated fee on ESO deficiencies form is no more than \$15,000, and there is no significant environmental impact
- May resolve violation by
 - Correcting identified violations
 - Sign ESA with EPA certifying prompt correction
 - Pay a penalty

The image shows a screenshot of an "Expedited Settlement Form" from the EPA. The form is divided into several sections with various fields and tables. The top section includes a title and a header. Below that, there are sections for "GENERAL INFORMATION", "VIOLATION INFORMATION", and "SETTLEMENT INFORMATION". The bottom section contains a large table with multiple columns and rows, likely for recording settlement details. The form is filled with text and numbers, representing a completed or partially completed document.

Cost of Compliance

UNIVERSITY OF MARYLAND SYSTEM
Department of the Environment
Division of Water Management

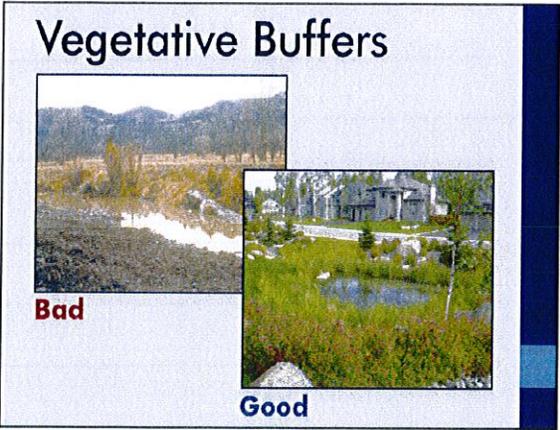
Table 1.1: Estimated Annual Compliance Costs for the Proposed Project

Category	Item	Estimated Annual Cost (\$)
PERMITTING	1. Construction Permit	10,000
	2. Construction Permit Fee	5,000
	3. Construction Permit Renewal	5,000
	4. Construction Permit Renewal Fee	5,000
	5. Construction Permit Renewal Fee	5,000
	6. Construction Permit Renewal Fee	5,000
	7. Construction Permit Renewal Fee	5,000
	8. Construction Permit Renewal Fee	5,000
	9. Construction Permit Renewal Fee	5,000
	10. Construction Permit Renewal Fee	5,000
CONSTRUCTION	1. Construction of Stormwater Management Facility	100,000
	2. Construction of Stormwater Management Facility	100,000
	3. Construction of Stormwater Management Facility	100,000
	4. Construction of Stormwater Management Facility	100,000
	5. Construction of Stormwater Management Facility	100,000
	6. Construction of Stormwater Management Facility	100,000
	7. Construction of Stormwater Management Facility	100,000
	8. Construction of Stormwater Management Facility	100,000
	9. Construction of Stormwater Management Facility	100,000
	10. Construction of Stormwater Management Facility	100,000

Do this if you want an inspection



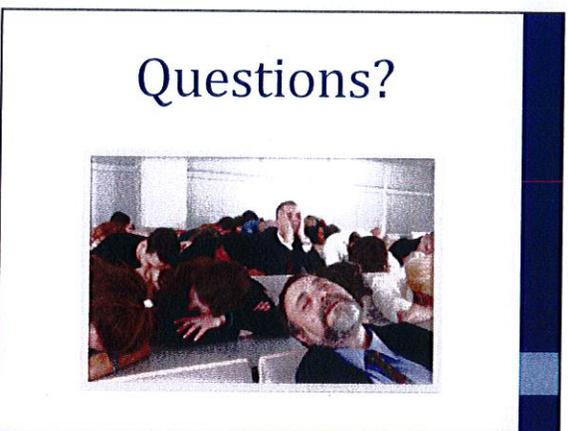












ENVIRONMENTAL WORKS

Tommy Bieker, M.Sc., CHMM
Principal
Office: (417) 890-9500
tbieker@environmentalworks.com

Kyle Kosovich
Environmental Scientist
(816) 285-8410
kkosovich@environmentalworks.com

www.EnvironmentalWorks.com

UG Stormwater Training Class - October 28, 2015

Project: _____
 Facilitator: _____
 Place/Room: _____



ENVIRONMENTAL WORKS
 OUR EXPERTISE. YOUR SUCCESS.

PRINT NAME	SIGNATURE	TITLE
1. VINCENT BILLACI	Vf Bill	SUPERVISOR STREET DEPT.
2. JOE DORR	Joseph P. Dor	STREETS
3. KIRK SUTHER	Kirk Suther	SOLID WASTE
4. PERRY STALLINGS	Perry Stallings	STREET DEPT
5. LAMAR MARTIN	Lamar Martin	street Dept
6. JAMES GRIMM	James Grimm	STREET DEPT.
7. MARK TURNER	Mark Turner	STREET DEPT.
8. BRYAN BARNHART	Bryan Barnhart	" "
9. RUBEN SANCHEZ	Ruben Sanchez	supervisor (Parks & Recreation)
10. DEWAYNE SMITH	Dewayne Smith	Street Dept
11. DAREEN HADDOCK	Dareen Haddock	Streets
12. DEAN BRIDGE	Dean Bridge	PARK & REC
13. JOHNNIE BROWN	Johnnie Brown	PARK & REC
14. ROBERT L. HOLTZ	Robert L. Holtz	PARKS AND REC
15. MICHAEL J. ERICKSON	Michael J. Erickson	Parks & Rec Dept.
16. DAVID EVANS	David Evans	STREETS
17. RICK POWELL	Rick Powell	Street
18. LANCE LAVENDER	Lance Lavender	street Dept. Program Supervisor
19. SARANFJELL WHITE	Saranfjell White	Publicworks Engineering
20.		
21.		
22.		
23.		

Stormwater Training Class - October 29, 2015

Project: _____
 Facilitator: _____
 Place/Room: _____



ENVIRONMENTAL WORKS
 OUR EXPERTISE. YOUR SUCCESS.

PRINT NAME	SIGNATURE	TITLE
1. ROB LANKFORD	<i>Rob Lankford</i>	SMW I
2. Brad Phillips	<i>B. Phillips</i>	SMW II
3. Randal Phillips	<i>Randal Phillips</i>	Staff Engineer
4. Justin Shepler	<i>Justin Shepler</i>	SMW I
5. BOB ZIESLER	<i>Bob Ziesler</i>	Supervisor
6. Terri Rankin	<i>T. Rankin</i>	SMW II
7. Mark Gates	<i>Mark Gates</i>	Construction Inspector II
8. STEVE LEMMONS	<i>Steve Lemmons</i>	ENG. SUPPORT.
9. CHAD MOOBERRY	<i>Chad Moberly</i>	SUPERVISOR
10. MICHAEL DAVIS	<i>Michael Davis</i>	SMW # II
11. William Bremenkamp	<i>Will Bremenkamp</i>	SMW-1
12. CESAR HERREERA	<i>Cesar Herreera</i>	CONSTRUCTION INSPECTOR II
13. Scott Lidtke	<i>Scott Lidtke</i>	SMW-I
14. John Monchus	<i>John Monchus</i>	Dep Co Eng
15. KIRK ROLAND	<i>Kirk Roland</i>	Program Supervisor UG
16. Dave Clark	<i>Dave Clark</i>	Project Engineer.
17. Kim Ingham	<i>Kim Ingham</i>	Project Engineer / Urban Planning
18. Ryan Horvath	<i>Ryan Horvath</i>	Project Engineer
19. Morgan Schmalz	<i>Morgan Schmalz</i>	Engineering Tech II
20. Lideana Laboy	<i>Lideana Laboy</i>	CITY TRAFFIC Eng.

Stormwater Training Class - October 29, 2015

Project: _____
 Facilitator: _____
 Place/Room: _____



ENVIRONMENTAL WORKS
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PRINT NAME	SIGNATURE	TITLE
21. Bill Heatherman	<i>Bill Heatherman</i>	County Engineer
22. CHRIS MANSHIP	<i>Chris Manship</i>	DESIGNER I
23. John Packer	<i>John Packer</i>	ROW Mgr. / Storm Super
24. Jimmy Jones	<i>Jimmy Jones</i>	UC Inspector
25. Sarah Fieldwhite	<i>Sarah Fieldwhite</i>	Project Engineer / PW Engineering
26.		
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Having trouble reading this email? [Click here](#) to view it in your Web browser.



Installation and Maintenance of STORMWATER TREATMENT Best Management Practices | 2015

The MARC Water Quality Education Committee is pleased to announce the 2015 Installation and Maintenance of Stormwater Treatment Best Management Practices on Nov. 12–13, 2015. This 1 1/2-day workshop will demystify the most common components of stormwater treatment best management practices. Expert instructors from North Carolina State University's Stormwater BMP Certification Workshops bring 40 years of experience in design, installation, maintenance and inspection of vegetative components of stormwater treatment BMPs to the training. The workshop is geared toward landscapers, subcontractors and general contractors currently working with stormwater treatment BMPs or those who would like to gain experience with these systems.

Nov. 12–13

REGISTER
TODAY

Space is limited!

Anita B. Gorman
Discovery Center
4750 Troost Avenue,
Kansas City, MO 64110
[Map/Directions](#)



**If it's on the ground,
it's in our water.**

Day One

1. Introduction to stormwater.
2. Watersheds.
3. Stormwater regulations.
4. Functions of BMPs (Best Management Practices).
5. Elements of BMP maintenance.
6. Retention pond maintenance.
7. Wetland maintenance.
8. Bioretention maintenance.
9. Field tour of local BMPs.

Day Two

1. Level spreader maintenance.
2. Maintenance of Green BMPs (swales, green roofs, cisterns, infiltration, trenches).
3. Parking lot BMPs (permeable pavement, sand filters and proprietary systems).
4. Final BMP questions and answers.
5. Examination.

Fee: \$149, lunch included. [Register Today»](#)

Instructors:

William F. Hunt, III, Ph.D., P.E. is a professor and extension specialist in North Carolina State University's Department of Biological and Agricultural Engineering. He holds bachelor's degrees in civil engineering and economics, a master's degree in biological and agricultural engineering, and a doctorate in agricultural and biological engineering. He is a registered professional engineer in North Carolina. Since 2000, Hunt has assisted with the design, installation and/or monitoring of over 90 stormwater best management practices (BMPs), including bioretention, stormwater wetlands, innovative wet ponds, green roofs, permeable pavement, water harvesting/cistern systems and level spreaders. He teaches 20–25 short courses and workshops each year on stormwater BMP design, function and maintenance throughout North Carolina and the U.S.



Bill Lord is an area environmental agent with the North Carolina Cooperative Extension Service. He earned a Bachelor of Science degree in horticulture and a Master of Science degree in entomology from North Carolina State



For more information, contact [Alecia Kates](#), MARC Water Quality Planner, at 816-701-8233 or visit marc.org/water.

University. A 25-year veteran of NC Cooperative Extension, Lord has experience in stormwater runoff, nutrient and pesticide management, and plant growth. He has supervised the construction and maintenance of several stormwater best practices including stormwater wetlands, wet ponds and bioretention areas. He also pioneered research on mosquito populations in stormwater facilities across North Carolina. Lord is a member of NC Cooperative Extension's Watershed Education Network and the Neuse Education Team. Annually, he conducts 12–15 workshops on stormwater management practice construction and maintenance throughout North Carolina and the U.S.



MARC Water Quality Public Education Committee
600 Broadway, Suite 200 | Kansas City, MO 64105
phone 816-474-4240 | fax 816-421-7758 | www.marc.org/water

APPENDIX B.4 Sewer Maintenance CCTV Inspections Annual Summary

2015 CCTV Totals

Use	Count of Inspections	Sum of Survey Feet	Sum of Survey Miles
Sanitary	1279	266,900.00	50.55
Stormwater	509	36,659.20	6.94

Date of CCTV	Length of Pipe Segment, ft	Upstream Manhole	Downstream Manhole	Storm or Sanitary?	Pipe Type	Pipe Size, inches	Suspected IDDE or Cross Connection	Follow-up Needed	Comments
9/13/2010	88.1	062-610	062-611	Storm	PVC	12	No	No	
3/7/2011	33.2	114-070	114-008	Sanitary	VCP	18	No	No	
3/11/2011	332.0	115-058	115-045	Sanitary	VCP	15	No	No	
5/2/2011	267.7	119-007	119-008	Sanitary	PVC	8	No	No	
12/15/2011	31.5	127-504	127-509	Storm	CMP	15	No	No	
4/13/2012	245.0	133-606	133-549	Storm	CMP	24	No	No	
3/1/2011	351.8	142-041	167-037	Sanitary	VCP	8	No	No	
8/15/2012	201.0	143-035	143-032	Sanitary	VCP	8	No	No	
12/3/2012	86.0	143-665	143-664	Storm	RCP	15	No	No	
4/15/2011	259.1	165-070	165-062	Sanitary	VCP	8	No	No	
11/30/2012	27.7	166-006	166-060	Sanitary	VCP	8	No	No	
6/29/2011	262.6	166-014	166-013	Sanitary	VCP	8	No	No	
11/30/2012	56.3	166-060	166-005	Sanitary	VCP	12	No	No	
11/30/2012	107.3	166-061	166-060	Sanitary	VCP	8	No	No	
11/30/2012	381.4	166-062	166-061	Sanitary	VCP	8	No	No	
11/29/2012	297.6	166-063	166-062	Sanitary	VCP	8	No	No	
11/29/2012	4.0	166-063	166-062	Sanitary	HDPE	8	No	No	
12/3/2012	55.3	166-565	143-664	Storm	RCP	15	No	No	
11/30/2012	53.5	166-565	143-665	Storm	RCP	15	No	No	
12/3/2012	34.0	166-566	143-666	Storm	RCP	15	No	No	
2/23/2011	398.4	167-012	167-036	Sanitary	VCP	8	No	No	
9/12/2011	310.0	167-013	168-097	Sanitary	VCP	8	No	No	
2/23/2011	348.9	167-036	167-035	Sanitary	VCP	8	No	No	
2/8/2012	238.6	168-006	168-005	Sanitary	VCP	8	No	No	
9/18/2012	237.3	168-048	168-055	Sanitary	VCP	8	No	No	
9/18/2012	306.4	168-054	168-066	Sanitary	VCP	8	No	No	
9/18/2012	306.4	168-054	168-066	Sanitary	VCP	8	No	No	
9/18/2012	315.1	168-055	168-054	Sanitary	VCP	8	No	No	
3/17/2011	8.0	178-042	178-041	Sanitary	VCP	8	No	No	
3/17/2011	251.6	178-043	178-042	Sanitary	VCP	8	No	No	
5/15/2012	37.0	190-001	190-002	Sanitary	VCP	8	No	No	
5/15/2012	37.0	190-001	190-002	Sanitary	VCP	8	No	No	
5/30/2012	297.4	190-002	190-003	Sanitary	VCP	8	No	No	
5/30/2012	238.4	190-003	190-004	Sanitary	VCP	8	No	No	
5/30/2012	200.9	190-007	190-003	Sanitary	VCP	8	No	No	
5/16/2012	364.5	190-019	190-002	Sanitary	VCP	8	No	No	
7/9/2012	154.4	190-020	190-032	Sanitary	VCP	8	No	No	
5/31/2012	386.2	190-021	190-004	Sanitary	VCP	8	No	No	
8/9/2011	336.1	190-025	155-040	Sanitary	VCP	8	No	No	

Date of CCTV	Length of Pipe Segment, ft	Upstream Manhole	Downstream Manhole	Storm or Sanitary?	Pipe Type	Pipe Size, inches	Suspected IDDE or Cross Connection	Follow-up Needed	Comments
7/9/2012	95.0	190-031	190-032	Sanitary	VCP	8	No	No	
7/9/2012	272.6	190-032	190-021	Sanitary	VCP	8	No	No	
5/15/2012	253.1	191-056	190-001	Sanitary	VCP	8	No	No	
8/17/2012	164.3	195-018	195-017	Sanitary	VCP	8	No	No	
8/17/2012	164.3	195-018	195-017	Sanitary	VCP	8	No	No	
1/31/2011	68.0	195-050	195-018	Sanitary	VCP	8	No	No	
1/31/2011	234.0	195-050	195-018	Sanitary	VCP	8	No	No	
7/18/2011	202.5	201-020	201-035	Sanitary	VCP	8	No	No	
7/15/2011	98.3	201-035	201-037	Sanitary	VCP	8	No	No	
4/5/2011	210.5	212-080	212-089	Sanitary	VCP	8	No	No	
2/24/2012	366.3	212-088	212-093	Sanitary	VCP	8	No	No	
2/24/2012	17.3	212-091	212-092	Sanitary	VCP	8	No	No	
2/24/2012	164.3	212-092	212-093	Sanitary	VCP	8	No	No	
2/24/2012	28.4	212-093	213-001	Sanitary	VCP	10	No	No	
2/23/2012	119.9	213-001	213-002	Sanitary	VCP	10	No	No	
2/23/2012	309.1	213-002	213-011	Sanitary	VCP	10	No	No	
2/23/2012	146.2	213-003	213-002	Sanitary	VCP	8	No	No	
2/23/2012	331.0	213-004	213-003	Sanitary	VCP	8	No	No	
2/22/2012	315.8	213-005	213-004	Sanitary	VCP	8	No	No	
2/22/2012	2.0	213-005	213-004	Sanitary	VCP	8	No	No	
2/21/2012	310.6	213-008	213-009	Sanitary	VCP	8	No	No	
3/14/2012	25.0	213-511	213-514	Storm	RCP	15	No	No	
3/14/2012	107.8	213-514	213-515	Storm	RCP	15	Yes	Yes	Small pipe connected to sewer
3/15/2012	172.6	213-517	213-518	Storm	RCP	15	No	No	
3/15/2012	124.7	213-518	213-566	Storm	RCP	18	No	No	
12/29/2010	397.0	235-538	235-540	Storm	RCP	?	Yes	Yes	Brown liquid entering pipe
12/14/2010	100.0	239-565	239-563	Storm	CMP	?	No	No	
2/27/2012	161.0	241-075	241-076	Sanitary	VCP	8	No	No	
2/27/2012	400.0	241-076	212-090	Sanitary	VCP	8	No	No	
12/3/2010	107.5	250-504	250-599	Storm	CMP	?	No	No	
12/3/2010	74.5	250-599	250-600	Storm	CMP	?	No	No	
3/2/2011	147.5	254-649	254-512	Storm	RCP	24	No	No	
12/21/2010	86.8	272-596	273-637	Storm	RCP	24	No	No	
12/27/2010	94.1	272-597	273-639	Storm	RCP	15	No	No	
12/27/2010	251.9	272-598	272-533	Storm	RCP	24	No	No	
12/27/2010	158.1	273-632	272-533	Storm	RCP	24	No	No	
12/27/2010	115.1	273-633	272-598	Storm	RCP	18	No	No	
12/21/2010	125.9	273-637	273-636	Storm	RCP	24	No	No	
12/27/2010	76.0	273-638	273-635	Storm	RCP	18	No	No	

Date of CCTV	Length of Pipe Segment, ft	Upstream Manhole	Downstream Manhole	Storm or Sanitary?	Pipe Type	Pipe Size, inches	Suspected IDDE or Cross Connection	Follow-up Needed	Comments
12/27/2010	175.1	273-648	273-639	Storm	RCP	15	No	No	
3/5/2012	328.0	276-082	276-001	Sanitary	VCP	8	No	No	
10/18/2011	98.0	290-658	290-661	Storm	RCP	30	No	No	
10/18/2011	134.3	290-665	290-667	Storm	RCP	42	No	No	
10/21/2011	104.6	290-667	290-668	Storm	RCP	36	No	No	
10/20/2011	79.2	290-669	290-668	Storm	RCP	15	No	No	
10/19/2010	87.4	307-513	307-514	Storm	CMP	18	No	No	
12/10/2010	76.8	308-502	308-505	Storm	RCP	36	No	No	
12/10/2010	233.4	309-580	309-583	Storm	CMP	30	Yes	Yes	Small pipe connected to sewer
12/10/2010	143.7	309-583	308-502	Storm	RCP	36	No	No	
12/14/2010	362.5	309-587	309-588	Storm	RCP	48	No	No	
6/6/2012	327.6	322-083	322-084	Sanitary	PVC	8	No	No	
6/5/2012	256.4	322-086	322-085	Sanitary	PVC	8	No	No	
6/5/2012	176.5	322-088	322-078	Sanitary	PVC	8	No	No	
12/20/2010	347.5	385-515	385-516	Storm	CMP	?	No	No	
12/20/2010	174.4	385-516	385-517	Storm	CMP	18	No	No	
12/20/2010	10.5	385-518	385-517	Storm	RCP	?	No	No	
1/3/2011	298.0	426-069	426-070	Sanitary	PVC	8	No	No	
1/3/2011	182.1	426-070	426-078	Sanitary	PVC	8	No	No	
1/3/2011	244.4	426-078	426-071	Sanitary	PVC	8	No	No	
12/29/2010	389.8	426-083	426-082	Sanitary	PVC	8	No	No	
1/4/2011	36.7	426-623	426-624	Storm	ABS	15	No	No	
1/4/2011	37.5	426-625	426-626	Storm	RCP	15	No	No	
3/23/2011	402.6	449-010	449-009	Sanitary	PVC	12	No	No	
12/28/2010	37.8	465-513	465-514	Storm	RCP	18	No	No	
12/28/2010	102.4	465-514	466-628	Storm	RCP	18	No	No	
12/28/2010	66.1	466-503	457-502	Storm	CMP	42	No	No	
12/28/2010	79.6	466-505	466-506	Storm	CMP	15	No	No	
9/28/2011	260.0	472-023	473-002	Sanitary	PVC	8	No	No	
9/28/2011	103.8	472-049	472-023	Sanitary	PVC	8	No	No	
9/7/2010	23.9	494-522	494-523	Storm	RCP	?	No	No	
9/7/2010	150.5	494-523	494-525	Storm	CMP	?	No	No	
9/7/2010	34.0	494-524	494-525	Storm	RCP	?	No	No	
9/7/2010	33.5	494-531	494-530	Storm	RCP	?	No	No	
9/7/2010	135.5	494-536	494-530	Storm	RCP	15	No	No	

APPENDIX B.5 Household Hazardous Waste Collection Information

APPENDIX B.5 Household Hazardous Waste Collection Information

1. Household Hazardous Waste Collection: This is a summary of the activities and the participation of residents in utilizing the seven scheduled Household Hazardous Waste Days.

In 2015, Wyandotte County residents were given 7 Saturdays from April thru October in which to bring household hazardous waste for proper disposal by the Unified Government. This information was available on the website of the Unified Government under the Public Works Department, was put into 7 monthly newsletters of Liveable Neighborhoods which goes to approximately 5,000 residents monthly, and advertised locally. Since the State of Kansas reports on a fiscal year the numbers on the following table are from July 2014 through June 2015.

There were 1,089 Wyandotte County participants who dropped off 115,009 pounds, or 57.5 tons, of household hazardous waste. A breakdown of materials collected over the last 5 years includes:

(Materials reported in pounds)

Material	2011	2012	2013	2014	2015
Bulk Latex Paint	34,577	28,803	22,887	18,941	32,133
Bulk Used Oil	11,139	12,362	12,005	7,949	11,267
Sorted Aerosols	1,910	1,548	1,751	1,674	2,857
Bulk Oil Base Paint	26,381	13,532	14,142	3,177	17,902
Bulk Fuel/Fuel Blends	1,821	2,436	2,947	2,009	3,653
Flammable Solids	14	22	42	13	53
Spontaneous Combustible	9	1	3	0	10
Dangerous when wet	1	15	24	22	29
Amines	0	0	0	0	0
Isocyanides	0	0	0	0	0
Oxidizers	99	163	162	160	183
Organic Peroxide	13	3	7	3	27
Poisons	2,964	3,796	3,608	3,507	4,535
Corrosive, acids, & bases	1,641	1,881	1,923	1,599	2,776
Lead Acid Batteries	12,000	250	3,540	2,040	1,590
Sorted Batteries	0	100	114	153	87
Dry Cell Batteries	989	698	703	756	591
Lithium Batteries	163	15	23	57	0

Anti-Freeze	0	0	0	0	0
Mercury	5	8	10	8	3
Florescent bulbs	124	231	294	336	496
Helium	0	6	0	0	0
Fire Extinguishers	0	66	116	11,574	0
Formaldehyde	0	1	0	0	0
Propane	0	136	0	0	0
Non-Hazardous				2,429	0
Total Pounds of HHW	93,850 46.93 tons	66,073 33.04 tons	64,301 32.15 tons	56,407 28.2 tons	115,009 57.5 tons
Total # of Cars	800	1,028	800	752	1,089

2. Electronic Waste Collection: There were 2 electronics recycling events held in Wyandotte County in 2015. The Unified Government was involved with programming of both electronics recycling events.

In celebrating Earth Day in 2015, in partnership with the E.P.A., Federal Prison Industries Inc. (UNICOR); the B.P.U.; Operation Brightside Inc.; the Unified Government participated with an annual electronic collection day that targeted Federal Government Agencies and its employees, the Unified Government and its employees, and the Board of Public Utilities and its employees. On April 22, 2015; 137 vehicles dropped off 24,518 pounds or 12.25 tons of electronics.

In celebration of America Recycles Day, Heartland Habitat for Humanity Restore; Federal Prison Industries Inc. (UNICOR); the Unified Government; Phi Theta Kappa from KCKCC, and Operation Brightside Inc. with an annual electronic collection day event. On November 14, 2015, 120 vehicles dropped off 17,332 pounds or 8.7 tons of electronics.

2015 Events Held	Tonnage Electronics	# of Vehicles
Earth Day Event	12.3	137
America Recycles Day	8.7	120
2014 Totals	21.0 Tons	257 Vehicles

Electronics accepted at these events have included the following: computers, printers, scanners, old computer monitors, old TV sets, old cell phones, DVD players, fax machines, stereos, radios, tape players, PDAs, Game Boys, VCRs, cameras, and other electronic items.

Since 2008, there have been 116.2 tons of electronics gathered in annual Earth Day events. Since 2007, there have been 103.8 tons of electronics gathered in annual America Recycles Day Events. In addition, in 2012 the KCK Public Schools Foundation collected 8 tons. In total with these events, there have been 228 tons of electronics recycled.

3. National Prescription Drug Take-Back Days: The Wyandotte County Sherriff's office, the Wyandotte County Regional Prevention Center, and Community Policing partnered with the U.S. Drug Enforcement Agency on a National Prescription Drug Take-Back Day in Kansas City, Kansas in October of 2015. Residents took back 107 pounds of unused, unwanted and expired prescription drugs to 6 locations in KCK.

4. Number of Tires Collected: Throughout the year, 415 tires were collected and disposed of.

Kansas Household Hazardous Waste Program - Annual Report Form

for State Fiscal Year 2015 (July 1, 2014 to June 30, 2015)

Name of Facility: Unified Government/Kansas City, KS Permit Number: 677H

County(ies) Served: Wyandotte

Facility Address: 2443 South 88th Street/Kansas City, KS

facility contact Kenneth L Mack Sr.

Phone # 913)573-5400

Fax# 573-8353

email Kmack@wycokck.org

Waste Category	Name of Disposal Contractor for each Category	Conversion factors used to estimate amounts left in Storage	Wastes in STORAGE	Wastes DISTRIBUTED through a REUSE Waste Exchange program	HAZARDOUS WASTES CONTRACTED or disposal at a cost					Wastes not contracted as Hazardous Waste or disposal at <u>no</u> cost				Total Pounds COLLECTED	
			(includes all wastes left in storage at the close of the report period) pounds	pounds	Recycled (HW) i.e. batteries pounds	Energy Recovery (HW) i.e. fuel sub. pounds	Treatment (HW) pounds	Landfilled (HW) pounds	Incineration (HW) pounds	Recycled i.e. batteries & refining of used oil pounds	Energy Recovery i.e. used oil, fuel substitutes pounds	Treatment and/or disposal through sanitary sewer pounds	Landfilled at Non HAZ MSW LF pounds		
1. NR (Bulk Latex Paint)	STERICYCLE	12 pounds per gallon						32,133							32,133
2. NR (Bulk Used Oil)	STERICYCLE	8 pounds per gallon			11,267										11,267
3. Class 2, Div. 2.1 (Sorted Aerosols, Lab/Loose Pack)	STERICYCLE				255		2,602								2,857
4. Class 3 (Bulk Oil Based Paint)	STERICYCLE	12 pounds per gallon					17,902								17,902
5. Class 3 (Bulk Fuels/Fuel Blends)	STERICYCLE	8 pounds per gallon					3,600			53					3,653
6. Class 4, Div. 4.1 (Flammable Solids)	STERICYCLE									53					53
7. Class 4, Div. 4.2 (Spontaneously Combustible)	STERICYCLE									10					10
8. Class 4, Div. 4.3 (Dangerous When Wet)	STERICYCLE									29					29
9. Class 5, Div. 5.1 (Oxidizers)	STERICYCLE									183					183
10. Class 5, Div. 5.2 (Organic Peroxides)	STERICYCLE									27					27
11. Class 6, Div. 6.1 (Poisons)	STERICYCLE									4,535					4,535
12. Class 6, Div. 6.1 (Dioxins)	N/A														0
13. Class 8 (Corrosives, Acids and Bases)	STERICYCLE							2,397		379					2,776
14. Class 8 (Batteries - Lead Acid)	STERICYCLE	Car batteries, at 30 pounds each			1,590										1,590
15. Class 8 (Sorted Batteries - NiCd)	STERICYCLE				87										87
16. Class 8 (Batteries - Dry Cell)	STERICYCLE									591					591
17. Class 8 (Batteries - Lithium)	N/A														0
18. NR (Antifreeze)	N/A														0
19. NR (Non-Hazardous)	N/A														0
20. Mercury	STERICYCLE				3										3
21. Fluorescent Bulbs	STERICYCLE				496										496
22. Electronic Waste	UNICOR				36,636										36,636
23. Pharmaceuticals	N/A														
24. Other:	STERICYCLE				190										190
Total Pounds Managed:			0	0	50,524	21,502	4,999	32,724	5,269	0	0	0	0	0	115,009

Additional Program summary results:

Annual Operational Costs for the year (July 1, 2014 - June 30, 2015):

A. Disposal Cost	\$ 62,047.61	E. Public Education/Advertising:	\$ 3,500.00	Total Cost per Participant:	\$ 111.10	Percent Managed through Waste Exchange Program:	0.00%
B. Salaries:	\$ 17,612.18	F. Physicals:	\$ -	Total Disposal Cost per Participant:	\$ 56.98	Percent Contracted for Hazardous Waste disposal:	100.01%
C. Equipment/Supplies:	\$ 21,710.00	G. Training:	\$ -	Average Pound per Participant:	105.61	Percent Managed through Other means:	-0.01%
D. Overhead (Admin & Util):		H. Other:	\$ 16,122.24	Cost to manage per Pound:	\$ 1.05	Percent in Storage as of report date:	0.00%
TOTAL ANNUAL OPERATIONAL COSTS:			\$ 120,992.03	Average Disposal Cost per Pound:	\$ 0.54		

Total Number of Participants for the year (July 1, 2014 - June 30, 2015):

1,089

APPENDIX B.6 Stormwater Plans Review Summary

2015 Development Reviews - Stormwater Drainage and Stormwater Quality

2015 Reviews	Project Name	Reference No.		Review Type	
		City Planning Commission	Development Review Committee	Stormwater Drainage (SD)	Stormwater Quality (SQ)
1	BPU Muncie Substation	SP-2014-71		SD	
2	BPU Nearman Plant		4-300-00657	SQ	
3	Buck Roofing		15-300-0844	SD	SQ
4	Buck Roofing		5-300-00844	SD	SQ
5	Cashen Brothers		5-300-00895	SD	
6	Chapel Hill		15-300-0502	SD	SQ
7	Chapel Hill LDS Church		5-300-00502	SD	SQ
8	Clarke Power Services	PR-2015-11		SD	SQ
9	Clifford Dale, Dale Brothers Mass	SP-2015-74		SD	
10	C-Store	PR-2015-20		SD	SQ
11	C-Store, Khalid Banday	PR-2015-20		SD	SQ
12	Dallas Wolf Auto Sales		5-300-00978	SD	SQ
13	Design Mechanical		5-300-00270	SD	
14	DFA	PR-2015-19		SD	SQ
15	Earl Watson	PR-2015-13		SD	
16	Family Dollar		15-300-0600	SD	SQ
17	Fenton Nissan		5-300-00681	SD	SQ
18	Frank Rushton - Final Plat		Final Plat	SQ	SQ
19	Garland Park - Futsal	PR-2015-28		SD	SQ
20	HOA Volleyball		15-300-0839	SD	SQ
21	HOA Volleyball		5-300-00839	SD	SQ
22	Hollywood Casino Parking Lot		15-300-0245	SD	SQ
23	Kaw Point		15-300-0102	SD	
24	Kaw Point WWTP		15-300-0309	SD	SQ
25	KC Steak		15-300-0591	SD	SQ
26	KCK RBI		15-300-0335	SD	
27	KCKCC Softball field		5-300-00888	SD	
28	Kirby Smith	PR-2015-26		SD	SQ
29	KU Parking Lot No. 63	PR-2015-6		SD	SQ
30	KU Parking Lot No. 97	PR-2015-7		SD	SQ
31	Laundry Mat		15-300-0843	SD	SQ
32	Legends Auto Mall (Lot 1)	PR-2015-14		SD	SQ
33	Legends Auto Mall (Lot 4)	PR-2015-8		SD	SQ
34	Mason Jar		5-300-00833	SD	SQ
35	Morton Auto Auctions	SP-2015-31		SD	SQ
36	Muslet LLC Laundromat		5-300-00843	SD	SQ
37	Muslet Restaurant		5-300-00110	SD	
38	Muslet Restaurant		15-300-0110	SD	SQ
39	Northwood Shopping Center		14-300-0868	SD	
40	Piper Landing		Final Plat	SD	SQ
41	PQ Corporation		15-300-0345	SD	SQ
42	Rosedale Place 2nd Plat/Final Plat	Plat		SD	SQ
43	SVV Mass Grading (Soccer)		15-300-0083	SD	
44	SVV Parking Lot Expansion		14-300-0332	SQ	
45	Turner Commerce Center - Grading		5-300-00932	SD	
46	UG Fleet	PR-2015-22		SD	SQ
47	Unbound - Parking Lot		15-300-0720	SD	SQ
48	UPS Parking Lot		15-300-0655	SD	SQ
49	USD500 BPAC		4-300-00434	SQ	

2015 Reviews	Project Name	Reference No.		Review Type	
		City Planning Commission	Developmen t Review Committee	Stormwater Drainage (SD)	Stormwater Quality (SQ)
50	Vega Park - Futsal	PR-2015-29		SD	SQ
51	Victory Chrysler	PR-2015-18		SD	SQ
52	Victory Ford	PR-2015-17		SD	SQ
53	Weber Store All	COZ 3082		SD	SQ
54	Weber Store All	COZ-2016-3102		SD	SQ
55	Wyandotte Co Youth Soccer Com	SP-2016-10		SD	SQ
56	Wyandotte Plaza Pad A		5-300-01045	SD	
57	Zaxby's Restaurant	PR-2015-12		SD	SQ
58	Zeolyst		15-300-0759	SD	
59	Zeolyst Bldg 41		5-300-00759	SD	
60	Zotung Church		15-300-0804	SD	

APPENDIX B.7 Land Disturbance Inspections and Enforcement Summary

2015 Erosion and Sediment Control Inspections

Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Inspections:	23	24	22	6	8	9	17	16	12	12	19	27	195
Re-Inspections:	7	6	7	3	5	6	10	14	12	16	17	16	119
Monthly Total:	30	30	29	9	13	15	27	30	24	28	36	43	314

APPENDIX B.8 Post-Construction BMPs Inspections and Enforcement Summary

2015 Registry of UG Owned Post-Construction BMPs

ID	Project Name/Description	Site Address	Water Quality BMPs On Site												Other Description	Year Inspection is Due	Date of Most Recent Inspection	
			Bioretention	Catch Basin Inserts	Extended Dry Detention Basin	Extended Wet Detention Basin	Hydrodynamic Separator	Infiltration Trench	Native Vegetation Swale	Permeable Pavement	Proprietary Media Filtration	Rain Garden	Underground Detention	OTHER				
PUBLICBMP 1001	Middle Jersey Creek Sewer Separation	Alley between 15th St and 16th St from Garfield Ave. to Troup Ave.								1							Annual	5-Nov-15
PUBLICBMP 1002	Middle Jersey Creek Sewer Separation	Corner of Troup and 17th St											1				Annual	5-Nov-15
PUBLICBMP 1003	MARC Rain Gardens at WYCO Lake	Wyandotte County Lake											4				Annual	4-Nov-15
PUBLICBMP 1004	Rain Gardens at Waterway Park	Waterway Park											2				Annual	4-Nov-15

2015 Inspection Summary of Privately Owned Post-Construction BMPs

ID	Project Name/Description	Water Quality BMPs On Site											Date of Most Recent Inspection	Pass/Fail	Inspector Comments		
		Bioretention	Catch Basin Inserts	Extended Dry Detention Basin	Hydrodynamic Separator	Infiltration Trench	Native Vegetation Swale	Permeable Pavement	Proprietary Media Filtration	Rain Garden	Underground Detention	OTHER				Other Description	
BMP1002	Advantage Metals Recycling		14												28-Sep-15	PASS	Passed
BMP1004	Con-Way Freight		2	2											14-Sep-15	FAIL	Catch basin inserts not installed per plan.
BMP1005	Dollar General						2								29-Oct-15	PENDING	Partial Inspection
BMP1006	Dollar General		1										1	NATIVE VEGETATION	29-Oct-15	PENDING	Partial Inspection
BMP1007	Family Dollar					1							1		22-Sep-15	FAIL	Trash on-site. Underground detention needs cleaning. Vegetation composition and density not per plan. Vegetation in poor health. Invasive species in infiltration trench.
BMP1008	Hazel Grove Elementary		1										1	TURF SWALE	8-Oct-15	FAIL	Catch basin inserts not installed per plan.
BMP1009	KCKCC Athletic Field/Bldg						1						1	AstroTurf/ Underdrains	21-Sep-15	FAIL	Native grass was removed and replaced with turf grass.
BMP1010	Logan's Roadhouse	1			1		1	1							29-Oct-15	PENDING	Partial Inspection
BMP1011	Mark Twain Elementary		1										1	TURF SWALE	8-Oct-15	FAIL	Catch basin inserts not installed per plan.
BMP1014	Parallel Senior Villas						1						1	NATIVE GRASS	31-Aug-15	FAIL	Vegetation in native vegetation swale and rain garden not per plan. Invasive species in these areas need to be removed.
BMP1016	PQ Corporation			1											2-Sep-15	PASS	Passed
BMP1017	Quick Trip Store #239R				1				1						16-Sep-15	PASS	Passed
BMP1018	Sam's Club Gas Station		3		1										23-Sep-15	FAIL	Catch basin inserts not installed per plan. Hydrodynamic separator needs cleaning.
BMP1019	Speedy's Convenience Store				1										8-Sep-15	PASS	Passed
BMP1020	Transport Truck Sales						1								15-Sep-15	FAIL	Native veretation appeared to be replaced with turf grass and had invasive species present.
BMP1021	Wyandotte Medical		1			1									21-Sep-15	PASS	Passed

2015 Inspection Summary of UG Owned Post-Construction BMPs

BMPs

ID	Project Name/Description	Site Address	BMPs		Year Inspection is Due	Date of Most Recent Inspection	Pass/Fail	Inspection Comments
			Permeable Pavement	Rain Garden				
PUBLICBMP 1001	Middle Jersey Creek Sewer Separation	Alley between 15th St and 16th St from Garfield Ave. to Troup Ave.	1		Annual	5-Nov-15	FAIL	Surface of permeable pavement has significant accumulation of sediment and requires cleaning.
PUBLICBMP 1002	Middle Jersey Creek Sewer Separation	Corner of Troup and 17th St		1	Annual	5-Nov-15	FAIL	Erosion has produced gullies. Vegetation is poor density poor condition and not established per plan. Invasive species are present and should be removed. Piping is occurring under the concrete water levelers and requires repair
PUBLICBMP 1003	MARC Rain Gardens at WYCO Lake	Wyandotte County Lake		4	Annual	4-Nov-15	FAIL	Parks and Recreation documentation indicates that the rain gardens were installed as part of a MARC program. No plans were found to compare with field conditions. Erosion around stone retaining/leveler structure of rain garden 1 and 4 has reduced storage capacity.
PUBLICBMP 1004	Rain Gardens at Waterway Park	Waterway Park		2	Annual	4-Nov-15	FAIL	Several plants shown on plans at both rain gardens have died and need to be replaced.

**APPENDIX B.9 Pesticides, Herbicides & Fertilizers Quantities and Approved
Contractors**

Appendix B.9 Pesticides, Herbicides & Fertilizers – Quantities and Approved Contractors

- Total volume of product distributed in 2015 under KDA's "Cost Share Program"
 - Imitator Plus – 205 gallons
 - Cornbelt 2-4D – 214 gallons
- Type and volume of pesticides procured for Park Maintenance operations distributed in 2015
 - Aquaneat – 10 gallons
 - Tordon – 3.5 gallons
 - Glyphosphate concentrate – 70 gallons
 - 2, 4D – 33 gallons
 - Tree-Age – 7 quarts
- Fertilizer product applied in 2015 on UG property
 - 24-3-11 400 lbs
 - 14-20-14 2,250 lbs
 - 15-0-5 2,000 lbs

----- ATTENTION -----

This is a three-part document:

The middle portion of this document is your OFFICIAL AUTHORIZATION from the Kansas Department of Agriculture.

The bottom third of this document is your POCKET CARD (if applicable).

JAMES DALE RAW
1843 S EARLY ST
KANSAS CITY, KS 66103

CUT ALONG THE **HEAVY** LINES

Kansas Department of Agriculture, Manhattan, Kansas

certifies

JAMES DALE RAW

has met the requirements for

Commercial Pesticide Applicator Certification under the KANSAS PESTICIDE LAW

and is hereby granted

Commercial Pesticide Applicator Certification Number: 6376

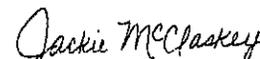
constituting authorization to apply and supervise the application of pesticides in the categories indicated hereon.

Issue and Expiration Dates:

01-01-2015 12-31-2017

Expiring: 12-31-2017

9A



Jackie McClaskey
Secretary of Agriculture

Kansas Department of Agriculture, Records Center, 1320 Research Park Drive, Manhattan, KS 66502 (785) 564-6700 <http://agriculture.ks.gov>

CUT ALONG THE **HEAVY** LINES

POCKET CARD

Kansas Department of Agriculture
certifies

JAMES DALE RAW

and hereby grants

**Commercial Pesticide Applicator
Certification Number: 6376**

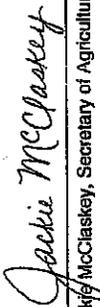
Issue and Expiration Dates:

01-01-2015 12-31-2017

See detailed Information

Detailed Information:

Expiring: 12-31-2017
9A


Jackie McClaskey, Secretary of Agriculture

K.A.R. 4-13-15 requires that a certified applicator shall produce a certificate or pocket card when requested to do so by any customer, law enforcement official, the Secretary, or any authorized representative of the Secretary

Revised 06/23/2014
License CCert
<http://agriculture.ks.gov>

KANSAS DEPARTMENT OF AGRICULTURE
RECORDS CENTER
320 Research Park Dr, Manhattan KS 66502
(785) 564-6700 Fax (785) 564-6779
records@kda.ks.gov

- Watch weather conditions before and during herbicide application. Do not apply herbicides in windy conditions or when wind direction is toward sensitive plants.
- Spray in the fall if possible. Many-broadleaf pasture weeds, such as thistle, will translocate the herbicide into the root system much better in the fall than in the spring. And, many sensitive crops are not actively growing in the fall.

Cooperating Agencies and Where to Go for More Information

**Kansas Department of Agriculture
Pesticide Program**
109 SW 9th St
Topeka, KS 66612-1280
785-296-3786
Sensitive Crop Location Web site:
www.accesskansas.org/kda/Pest&Fert/sensitivecrops.htm

**Kansas State University
Department of Agronomy**
2004 Throckmorton Hall
Manhattan, KS 66506-5504
785-532-6101
www.oznet.ksu.edu

**Kansas State University
Department of Horticulture,
Forestry, and Recreation Resources**
2021 Throckmorton Hall
Manhattan, KS 66506-5506
785-532-6170
www.oznet.ksu.edu

**Kansas Grape Growers and
Winemakers Association**
Greg Shipe, President
email: ks_wines@hotmail.com

Kansas Fruit Growers
www.kansasfruitgrowers.com

Kansas Vegetable Growers
Chuck Marr, Secretary
Email: cmarr@oznet.ksu.edu

*This brochure is part of the "Good Neighbor Program."
Partial funding provided by the North Central Region
Sustainable Agriculture Research and Education program.*

Avoiding Damage to Sensitive Crops

Many fruits, vegetables, field crops, and even trees and shrubs are sensitive to herbicides. Herbicides such as 2,4-D, trichlopyr, dicamba, and picloram may drift in particle or vapor forms that injure sensitive plants a mile or more from the application site.

When herbicides are applied under windy conditions, temperature inversions, high temperatures, low humidity, or in close proximity to sensitive crops, there is potential for damage.

A grape vineyard that is mature and in full production can represent an investment of \$50,000 per acre. One incident of spray drift can destroy the vineyard.

The herbicide label includes all the safety precautions an applicator should follow when using that herbicide.

Herbicide applicators are legally responsible to use all chemicals according to the label and can be held liable for off-target damage.

Suggestions for preventing sensitive crop injury include:

- Visit with your neighbors and learn the locations of sensitive crops. The Kansas Department of Agricultural Pesticide Program sponsors a Web site where growers of sensitive crops can list locations. Applicators are encouraged to check the list before making herbicide applications: www.accesskansas.org/kda/Pest&Fert/sensitivecrops.htm.
- Avoid the use of ester formulations of phenoxy herbicides in any area near sensitive crops. Examples are 2,4-D and Banvel.
- Follow label directions closely.
- Use proper equipment and clean the equipment thoroughly after use.
- Follow label directions for herbicide container disposal.

The Rookie's Guide to Responsible & Sensible Herbicide Use

- When, Why, How
- Application Tips
- Herbicide Behavior
- Avoiding Non-Target Damage
- Being a Good Neighbor



The Basics of Weed Science

Weed: A plant growing out of place.

So you think you have a weed? Do you know what plant it actually is? The first step in weed management is identifying the "weed." You can check out books at the library, search on the Web, www.rice.utgers.edu/weeds/index-thumbnaill.asp or www.psu.missouri.edu/fisher/default.htm or take a healthy looking specimen to your local extension office.

Once you identify the plant, you can find out the plant's life cycle, and then figure out the best option for control.

Many weeds can be controlled with inexpensive cultural methods — digging, pulling, mowing, crop rotation, and good grassland management. Well-managed land and healthy, desirable crops and grass make it more difficult for weeds to compete.

A few weeds, such as musk thistle, can be managed with biological methods, primarily beneficial insects. Scientists and researchers are continually working on improving this method.

A third option to consider is the use of chemical herbicides. Proper weed identification is the place to start when thinking of herbicides. Next, select a herbicide that will specifically kill that weed. The herbicide label will list all the weeds it controls. Advice on herbicide selection can be found at the local extension office, Noxious Weed Department, or chemical dealers.



The Basics of Herbicides

The number one rule involved in herbicide use: is Read the label. The label lists crops or places where the herbicide use is legal, what plants/weeds it will control, environmental precautions, personal safety precautions, proper rate and mixing directions, and weather conditions for safe application.

Herbicides are made up of various chemicals that have individual and unique properties. Herbicides can be purchased as wettable powders, granules, and liquids. Some herbicides work by contact and are absorbed through the leaves and stems, while others are soil-applied and are absorbed through the roots or by seedlings.

Some herbicides will kill just about any growing plant — these are called nonselective herbicides. Others are more specific and may affect mostly broadleaf plants, or mostly grass-type plants. The K-State *Herbicide Mode of Action* bulletin C-715 has more information on how herbicides affect plants.

The label on a herbicide container offers a wealth of helpful information. Take time to read it before handling the product.



Safe and Effective Herbicide Application

The label is again the place to start when discussing herbicide application. It includes mixing instructions, application rates, surfactant requirements, and other use information.

Drift is always a concern when herbicides are applied with a sprayer. Drift can result in the waste of product, reduce the effectiveness of application, damage non-target crops, and hurt wildlife or contaminate water supplies.

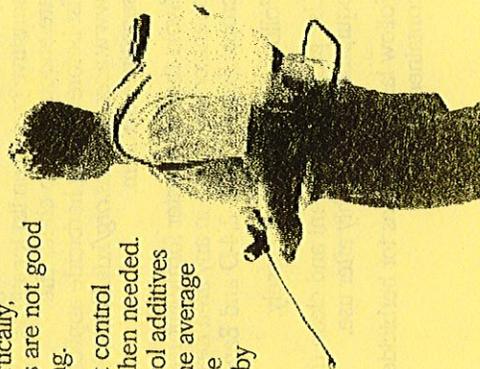
There are two basic types of drift.

Vapor drift is when herbicide molecules volatilize (evaporate into the air) and move downwind with the airflow. This form of drift is related to the product, not to the type of application method.

Particle drift is the movement of spray particles, or droplets, formed during application. Several key factors determine if a spray droplet hits its target or drifts downwind: droplet size, equipment and method of application, and wind speed and other climatic conditions.

Here are eight ways to reduce drift.

- 1) Select a nozzle that produces coarse droplets. Use droplets that are as coarse as practical to provide necessary coverage. Examples are turbo flood or turbo flat-fan.
- 2) Use the lower end of the pressure range on your sprayer. Higher pressures generate many more small droplets. Under most conditions, do not exceed 20 psi. pressure.
- 3) Lower sprayer boom height. Wind speed increases with height. Keeping the sprayer nozzles closer to the target lowers chances of off-target drift.
- 4) Increase nozzle size. Larger capacity nozzles reduce drift. If you use nozzles that put out 10 to 15 gallons per acre, increase size to nozzles that put out 15 to 20.
- 5) Spray when wind speeds are less than 10 m.p.h. More spray moves off target as wind speed increases.
- 6) Spray when wind is moving away from sensitive crops.
- 7) Do not spray when the air is very calm. Calm air, or an inversion, reduces air mixing, which means spray can move slowly downwind. Inversions generally occur in early morning or near bodies of water. You can recognize an inversion by observing a column of smoke. If the smoke does not dissipate, or if it moves downwind without mixing vertically, conditions are not good for spraying.
- 8) Use a drift control additive when needed. Drift control additives increase the average droplet size produced by nozzles.



Use Pesticides Carefully

Many plants, including grapes, tomatoes, potatoes, cotton, soybeans, and fruit and nut trees, are very sensitive to spray drift from hormonal-type pesticides like 2,4-D, dicamba, picloram, MCPA, triclopyr, fluoxypyr and Mecoprop. The effect can be miles away from the application site. Also, bees may be killed when insecticides are used near their hives or in flowering fields where the bees gather nectar.

You can take precautions to avoid harming sensitive crops when you apply pesticides. Pesticides include herbicides, insecticides and fungicides. Many plants and animals are sensitive to pesticides and may be damaged by particle spray drift, vapor drift or affected by pesticides that run off the target area.

The Kansas Department of Agriculture maintains an online registry for growers to post the locations of sensitive crops, and we recommend you refer to it to determine if any are near where you plan to apply a pesticide. Keep in mind, however, that one or more of your neighbors may have sensitive plants in their gardens and those won't be on our registry.

The sensitive crop registry can be found online at www.ksda.gov/pesticides_fertilizer/content/177.

How to Protect Sensitive Crops and Be a Good Neighbor

Carefully select a pesticide product. Read the product label to find one that is suitable for the

pest you want to control and make sure the location is listed on the label. Consider the toxicity and hazard of the product you select, and don't buy more than you need for a job.

Read the label. Find out how much to use and follow all label directions. It is illegal to use more than the label allows.

Follow all precautions on the label. The label will inform you if you need to wear gloves or other protective clothing. It also will inform you of environmental hazards and any restrictions on the use of the product.

Look around you before you use the pesticide. Ask yourself these questions:

- Are there any sensitive or desirable plants and animals nearby?
- Is there a stream, pond, ditch or other open water source around?
- Will the wind carry the pesticide to the neighboring property?
- Is this product likely to volatilize due to a high temperature today or tomorrow?
- Are there any children, pets or other animals in the area?

Watch for drift or runoff as you apply the pesticide. Stop applying if it becomes windy or if the product starts to run off the target area.

Follow label directions and store pesticides in their original container. When you dilute a pesticide, use all of the mixture or store it in a nonfood container that is clearly labeled and kept out of reach of children. The empty container should be thoroughly rinsed and punctured so it can't be reused. Rinse water can be used in the spray mix to avoid disposal problems and environmental contamination.

How Pesticides Move Away From the Application Site

Particle Drift. Small spray droplets or particles may drift during a pesticide application and travel long distances to damage desirable plants or animals. To help prevent drift, use larger spray droplets, use low pressure and apply close to the plants. Make sure the wind is low and blowing away from any sensitive areas. Please be aware that any dust blowing as you apply weed-and-feed fertilizer to your lawn is drift and may cause damage.

Vapor Drift. After a pesticide is applied, the product may evaporate (volatilize) off the plants and affect plants in other areas. The volatility of some pesticide products increases as the temperature increases. The product label may warn you not to apply the product if a specific temperature is expected in the next few days. Ester formulations of phenoxy herbicides are more likely to volatilize and damage sensitive crops than amine formulations.

Runoff. A product applied to a slope, bare ground or right before a rain may run off and enter streams or severely damage other plants. Runoff

may kill fish or invertebrates and make the water unsuitable for swimming or drinking. Dry weed-and-feed lawn products often cause problems when they are carried off of the application site with runoff from rain or from too much watering.

Be aware of where sensitive plants are growing in your neighborhood. Select a weed control chemical and application method that will not violate the label or cause damage.

Do you know . . .

- Products you purchase to control a pest, whether it's an insect, weed, disease, rodent or even household germs, are strictly regulated by the U.S. Environmental Protection Agency and the Kansas Department of Agriculture.
- Pesticide products must have EPA-approved labels that explain how the product is to be used, whether certain precautions must be taken and how the product should be stored.
- It is unlawful to store, use and dispose of a pesticide product in a manner different than what is specified on the product label.
- It is unlawful to accept payment for applying any pesticide, even weed and feed fertilizers, for someone else if you do not have a pesticide business license and commercial pesticide applicator certification from the Kansas Department of Agriculture.

Where to Learn More

Kansas Department of Agriculture
(785) 296-3786
www.ksda.gov

K-State Research and Extension
Equipment to Reduce Spray Drift
www.oznet.ksu.edu/library/ageng2/mf2445.pdf

K-State Research and Extension
Strategies to Reduce Spray Drift
www.oznet.ksu.edu/library/ageng2/mf2444.pdf

K-State Research and Extension
The Rookie's Guide to Responsible
& Sensible Herbicide Use
www.ksda.gov/includes/document_center/pesticides_fertilizer/Drift/Rookie_Guide293.pdf

National Pesticide Information Center
(800) 858-7378
www.npic.orst.edu

The U.S. Environmental Protection Agency
Office of Pesticide Programs
www.epa.gov/pesticides/



KANSAS
DEPARTMENT OF
AGRICULTURE

Kansas Department of Agriculture
Pesticide and Fertilizer Program
109 SW 9th Street, 3rd Floor
Topeka, KS 66612
(785) 296-3786

Protect Kansas' Sensitive Crops



Project Good Neighbor

DON'T LET YOUR PESTICIDES DRIEFT

www.ksda.gov

What is compost?

Many of the kitchen scraps that we send down the disposal and much of the yard wastes we dispose of can be put to better use as compost. Compost is decomposed organic material made from such ingredients as leaves, grass clippings, shredded twigs and some kitchen scraps. Composting is a practical and convenient way to reuse your lawn, garden and certain household wastes.

The composting process involves four main components: organic matter, moisture, oxygen, and bacteria. Organic matter includes plant materials and some animal manures. Moisture is important to support decomposition. Oxygen accelerates the breakdown of plant material.

Once all the components are in place, a complex feeding pattern begins that involves hundreds of different organisms, including bacteria, fungi, worms and insects. What remains after these organisms break down organic refuse is the rich compost that nourishes lawns and gardens.

The benefits of using compost

Homeowners often have difficulty disposing of leaves, grass clippings and other garden refuse. In many states, it is illegal to dump lawn waste in landfills, and disposing of it in storm drains, lakes, rivers and streams clogs drains and pollutes water.

Instead of filling landfills and polluting local waterways with this waste, citizens can benefit from it. Backyard composting of organic waste creates natural soil additives for use on lawns and gardens, and around the house. Other benefits of using organic compost:

- Reduces soil erosion and water runoff
- Assists soil in holding nutrients, which reduces the need for fertilizers
- Promotes healthier plants that are less susceptible to disease and insects
- Improves water absorption into soil and by plants
- With the addition of compost, sandy soils hold water better, and clay soils drain faster

Make your own compost pile

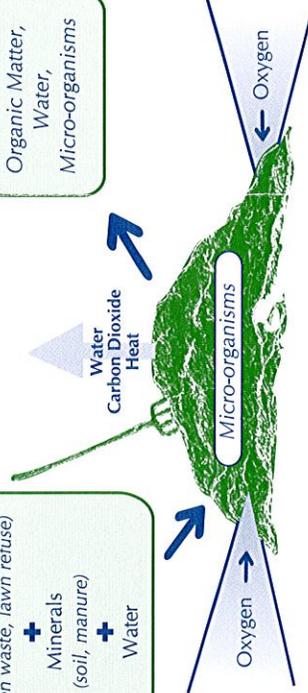
- Locate your pile on a well-drained site which would benefit from nutrient runoff, but avoid areas adjacent to streams and other waterways.
- To ensure good aeration, start your pile with a three-inch layer of coarse plant material such as small twigs, or use a wooden pallet.
- Build successive layers of leaves, grass clippings, food scraps, and other green matter. For more rapid decomposition, chop and mix components together.
- Cover layers with 1–2 inches of soil or manure to add nitrogen to the process.
- During dry weather, keep the pile moist. In cold winter months, cover the pile with black plastic to insulate and shed excess water.
- Mix compost with a pitchfork after six weeks. This helps aerate the pile, and keeps the bacterial processes from overheating.

Finished Compost

Organic Matter,
Water,
Micro-organisms

Raw Materials

Organic Matter
(kitchen waste, lawn refuse)
+
Minerals
(soil, manure)
+
Water



What can you compost?

To achieve the healthiest compost, you will need the right mix of ingredients. Here are some ideas for ingredients to include and those to avoid:

Stuff to include

- Grass clippings and leaves
- Fruit and vegetable scraps
- Tea bags and coffee grounds
- Fireplace ashes
- Vacuum cleaner lint
- Straw/hay
- Wood chips and sawdust
- Shredded newspaper

Stuff to avoid

- Diseased plants
- Human and pet waste
- Chemically treated wood products
- Barbecue grill ash
- Meat and fish scraps and bones
- Oils and other fatty food products
- Milk products
- Pernicious weeds

What is a Watershed?

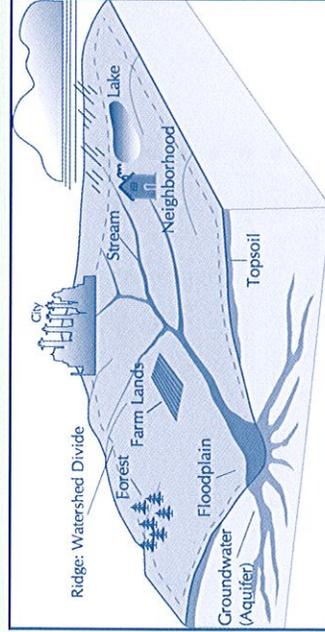
A watershed is an area of land that drains to a common point, such as a nearby creek, stream, river or lake. Every small watershed drains to a larger watershed that eventually flows to the ocean.

Watersheds support a wide variety of plants and wildlife and provide many outdoor recreation opportunities. Protecting the health of our watersheds preserves and enhances the quality of life for Kansas City area residents.

What is Stormwater Runoff?

Stormwater is water from rain or melting snow. It flows from rooftops, over paved streets, sidewalks and parking lots, across bare soil, and through lawns and storm drains. As it flows, runoff collects and transports soil, pet waste, salt, pesticides, fertilizer, oil and grease, litter and other pollutants. This water drains directly into nearby creeks, streams and rivers, without receiving treatment at sewage plants.

Polluted stormwater contaminates local waterways. It can harm plants, fish and wildlife, while degrading the quality of water.



A typical watershed system

MARC
Mid-America Regional Council
600 Broadway, Suite 300
Kansas City, Missouri 64105

For more information,
visit www.marc.org/water
or call 816/474-4240.

Printed on 30% Recycled Material



Making and Using Compost



Autumn Watershed Tip

Help keep yard waste and kitchen scraps out of landfills and waterways



Good Neighbors Care About Clean Water

APPENDIX B.10 Street Sweeping Log

APPENDIX B.10 Street Sweeping Log (2015)

Month	LANE MILES	ESTIMATED MATERIAL IN CUBIC YARDS (CY)
January	679	885.0
February	272	207.0
March	1,612	1,317.0
April	1,230	990.0
May	1,086	918.0
June	599	513.0
July	408	270.0
August	458	411.0
September	765	642.0
October	1,071	921.0
November	1,002	1,308.0
December	1,160	1,377.0
TOTAL	10,342	9,759

YEAR END TOTAL FOR SWEEPING

2015

Month	Total Lane Miles Swept	Total Sweeper Loads Collected	Est. Mat. In Cu.Yds.	Total Working Hours	Total Equipment Cost	Total Employee Cost	Cubic Yds Per Ln Mile	Lane Miles Per 8 Hr Day	Cost Per Ln Mile	Total For Month
January	679	295	885	454	\$26,105.00	\$8,821.22	1.30	11.96	\$51.44	\$34,926.22
February	272	69	207	168	\$9,660.00	\$3,264.24	0.76	12.95	\$47.52	\$12,924.24
March	1612	439	1317	940	\$54,050.00	\$18,264.20	0.82	13.72	\$44.86	\$72,314.20
April	1230	330	990	776	\$44,620.00	\$15,077.68	0.80	12.68	\$48.53	\$59,697.68
May	1086	306	918	648	\$37,260.00	\$12,590.64	0.85	13.41	\$45.90	\$49,850.64
June	599	171	513	402	\$23,130.00	\$7,927.44	0.86	11.92	\$51.85	\$31,057.44
July	408	90	270	252	\$14,490.00	\$4,896.36	0.66	12.95	\$47.52	\$19,386.36
August	458	137	411	288	\$16,560.00	\$5,595.84	0.90	12.72	\$48.38	\$22,155.84
September	765	214	642	444	\$25,530.00	\$8,626.92	0.84	13.78	\$44.65	\$34,156.92
October	1071	307	921	588	\$33,810.00	\$11,424.84	0.86	14.57	\$42.24	\$45,234.84
November	1002	436	1308	576	\$33,120.00	\$11,191.68	1.31	13.92	\$44.22	\$44,311.68
December	1160	459	1377	684	\$39,330.00	\$13,290.12	1.19	13.57	\$45.36	\$52,620.12
TOTALS	10,342	3,253.00	9,759.00	6,220	\$357,665.00	\$120,971.18	AVERAGE 0.93	AVERAGE 13.18	AVERAGE 46.87	Total For YEAR \$478,636.18

APPENDIX B.11 Good Housekeeping Training Information

Working Together to STOP LITTERING

It may be Winter, but caring for and preserving our environment is a year-round event. Weather forecasts have called for a wet winter which makes it even more important to keep litter and trash off our streets before it goes into our storm system, creeks, streams, rivers and lakes.

Not only is litter bad for our environment, streams, lakes, and rivers, it also has a high price tag to clean it up! As quoted in the Keep America Beautiful website, " Litter clean up costs the U.S. more than \$11.5 billion each year, with businesses paying \$9.1 billion. Local and state governments, schools, and other organizations pick up the remaining costs." The majority of litter comes from motorists and pedestrians. Let's all work together to keep litter off the streets, yards, and parking lots by throwing away trash in a dumpster or trash can.

For more information, please see the flyer below. With your help, we can STOP LITTERING in Wyandotte County!
Please take a moment to complete our Stormwater Outreach Survey: <https://www.surveymonkey.com/r/FG6GZDB>

Brought to you by the Wyandotte County Stormwater Program and the Mid-America Regional Council. For more information about this and other U.G. programs to stop pollution, please contact Sarah Fjell White at sfjell@wycokck.org or 573-5724

Having trouble reading this email? Click [here](#) to view it in your web browser.

STOP LITTERING.

If it's on
the ground,
it's in
our water.

Help spread the word!

Use this [Litter Clean-Up Kit](#) from Bridging the Gap.

[Learn more](#) about litter.

Form a regional Stream Team in [Kansas!](#)

We all want our communities to look attractive and have safe, enjoyable recreational spaces. Littering is a surefire way to make our communities unattractive, degrade water quality and siphon the fun out of recreational experiences.

Improve your community — STOP LITTERING!



Clean Water. Healthy Life.

www.marc.org/water

Mid-America Regional Council | 600 Broadway, Suite 200 | Kansas City, MO 64105
ph: 816/474-4240 | www.marc.org | email: marcinfo@marc.org



APPENDIX B.12 Curb Inlet Inspection and Cleaning Records

2015

Work Performed	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	Total
Catch Basins Checked	1,543	1,011	875	2,699	1,266	1,847	568	342	323	246	507	369	11,596
Catch Basins Cleaned	421	170	72	706	320	547	252	166	180	97	245	161	3,337

APPENDIX B.13 UG-Owned/Operated and UG-Operated Facilities Registry

List of UG-Owned/Operated and UG-Operated Facilities Classified as Industrial by CFR 122.26 (b)(14)(i-xi) - 2015

Date: 7-Dec-15

Department	Description	Address
WPC	Wastewater Treatment Plant #20	2443 S 88th Street
PUBLIC WORKS	Fleet Center, Parks & Rec. Admin.	5033 State Avenue

Note: WWTP #20 will apply for a "No Exposure" Certification (NOEC) or NOI in 2016. Fleet Center has applied for an Notice of Intent (NOI).

Division of Environment
Bureau of Water – Industrial Programs
1000 SW Jackson – Ste. 420
Topeka, Kansas 66612-1367



Phone 785-296-5545
Fax: 785-296-0086
dgeisler@kdheks.gov
www.kdhe.ks.gov

Susan Mosier, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

Re: Industrial Activity Stormwater Permit
Kansas Water Pollution Control General Permit No. S-ISWA-1111-1

Dear Permittee:

Enclosed is the authorization to discharge stormwater runoff under the industrial activity stormwater general permit at the facility described therein. Please retain a copy of your authorization for future reference.

Because this authorization to discharge obligates the permittee to meet permit requirements, we ask that you review the industrial activity stormwater general permit carefully. The industrial activity stormwater general permit, application forms, instructions and other forms are available on the KDHE Stormwater Website at www.kdheks.gov/stormwater. Paper copies are also available upon request.

A \$60 annual permit fee will be due each year. In accordance with K.A.R. 28-16-56(b)(5) the general permit fee must be paid annually to maintain coverage under the industrial activity stormwater general NPDES permit. You will receive an invoice approximately 30 days prior to the anniversary date of your permit. When submitted the annual permit fee, please reference the permit number and include the invoice so that we can apply it to the appropriate permit. Checks for the annual fee should be made payable to KDHE. In order to ensure that the appropriate person is notified of the annual permit fee, please notify KDHE of any change in address or contact information.

If you have any questions regarding the enclosed authorization to discharge, or coverage under the general permit, please contact Eric Staab at (785) 296-4347 or by email at estaab@kdheks.gov.



See Attached Sheet for Instructions

NOTICE OF INTENT (NOI)
 For Stormwater Runoff from Industrial Activity
 Authorized by a Kansas Water Pollution Control General Permit
 Under the National Pollutant Discharge Elimination System

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form desires to be authorized by an NPDES permit issued for stormwater runoff from industrial activity in the State of Kansas. Becoming a permittee obligates the discharger to comply with the terms and conditions of the Kansas NPDES Stormwater Runoff from Industrial Activity General Permit. Completion of this NOI does not provide automatic coverage under the general permit. Coverage is provided and discharge permitted when the Kansas Department of Health and Environment (KDHE) authorizes the NOI. A signed and dated copy of the authorized NOI will be provided to the owner or operator. Upon authorization of the NOI, a Kansas permit number and a Federal permit number will be assigned to the industrial facility. ONLY COMPLETE NOI FORMS ACCOMPANIED BY THE \$60 ANNUAL PERMIT FEE WILL BE PROCESSED. KDHE WILL NOTIFY PERSONS WHOSE NOI FORMS ARE INCOMPLETE, DEFICIENT, OR DENIED.

Please Print or Type:

I. FACILITY OWNER OR OPERATOR INFORMATION

Owner or Operator's Name: Unified Government Contact Name: Mike Tobin
 Company Name: Unified Government Company Name: Unified Government
 Owner or Operator's Phone: 913-573-5747 Contact Phone: 913-573-5747
 Mailing Address: 701 N. 7th St. E-mail Address: mtobin@wycokck.gov
 City: Kansas City State: KS Zip Code: 66101

PERMIT FEE BILLING INFORMATION

Billing contact name: Mike Tobin Phone: 913-573-5747
 Billing Address (if different): _____ Email Address: mtobin@wycokck.org
 City: _____ State: _____ Zip Code: _____

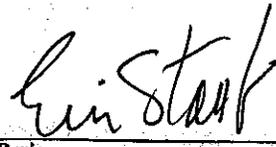
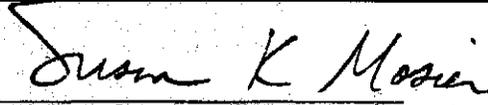
II. FACILITY INFORMATION

A. LOCATION

Industrial Facility Name: UG Fleet Maintenance Center Facility Contact Name: Merle McCullough
 Street Address: 5033 State Ave. Company Name: Unified Government
 City: Kansas City State: KS Zip Code: 66102-3491 Contact Phone: 913-573-8375
 County: Wyandotte E-mail Address: mmccoullough@wycokck.org
 Physical Location: _____

_____, _____ South, _____ E; W; or _____ 39 06' 49.9" 95 41' 40.4"
 QTR Section Township Range Deg. Min. Sec. Deg. Min. Sec.
 Latitude Longitude

For Official Use Only:

Received RECEIVED NOV 25 2015 BUREAU OF WATER	Paid: <u>\$60</u>	Authorized <input checked="" type="checkbox"/> Y; <input type="checkbox"/> N
	Date: <u>11-25-15</u>	 Reviewer
	Initials: <u>dg</u>	
	Check No.: <u>778435</u>	
 Secretary, Kansas Department of Health and Environment		Date: <u>12/3/2015</u>
KS Permit No. <u>G-KS27-0052</u>		Federal Permit No. <u>KS R000985</u>

Non-regulated UG-Owned/Operated and UG-Operated Facilities Registry - Schedule of Visits for 2016 - 2017

Date: 7-Dec-15

DEPARTMENT	FACILITY	ADDRESS	LAST_VISIT	NEXT VISIT
PARKS AND REC	Argentine Recreation Center	2810 Metropolitan Avenue		2016
PARKS AND REC	Armourdale Recreation Center	730 Osage Avenue		2016
PARKS AND REC	Bethany Recreation Center	1120 Central Avenue		2016
PARKS AND REC	Boathouse	4280 West Drive		2016
PARKS AND REC	City Park	2601 Park Drive		2016
PARKS AND REC	Eisenhower Recreation Center	2901 N 72nd Street		2016
PARKS AND REC	James P Davis Hall, Sheriff Ranger HQ	3488 West Drive		2016
PARKS AND REC	JFK Recreation Center	1310 N 10th Street		2016
PARKS AND REC	Kensington Recreation Center	2900 State Avenue		2016
PARKS AND REC	Lake House #1	3450 East Drive		2016
PARKS AND REC	Memorial Hall	600 N 7th Street		2016
PARKS AND REC	Natural History Museum	631 N 126th Street		2016
PARKS AND REC	Nature Center	4051 West Drive		2016
PARKS AND REC	Noxious Weeds Department	3480 West Drive		2016
PARKS AND REC	Parks & Rec. Office Building	75 S 23rd Street		2016
PARKS AND REC	Parks Administration	5033 State Avenue		2016
PARKS AND REC	Parks and Rec. Nursery	1st Street & Franklin Avenue		2016
PARKS AND REC	Parkwood Recreation Center	910 Quindaro Boulevard		2016
PARKS AND REC	Pat Hanlon Senior Center	1101 Ridge Avenue		2016
PARKS AND REC	Pierson Recreation Center	1800 S 55th Street		2016
PARKS AND REC	Piper Community Center	3130 N 122nd Street		2016
PARKS AND REC	Pump House	4290 West Drive		2016
PARKS AND REC	Rental Building, UG Owned	4400 West Drive		2016
PARKS AND REC	Willa Gill Multi-purpose Bldg	645 Nebraska Avenue		2016
FIRE	Fire Station #01 - Headquarters	815 N 6th Street		2016
FIRE	Fire Station #02 - HAZMAT	6241 State Avenue		2016
FIRE	Fire Station #03	420 Kansas Avenue		2016
FIRE	Fire Station #04	3044 N 81st Street		2016
FIRE	Fire Station #05	952 Quindaro Boulevard		2016
FIRE	Fire Station #06	9548 State Avenue		2016
FIRE	Fire Station #07	2717 Strong Avenue		2016
FIRE	Fire Station #08	3131 N 123rd Street		2016
FIRE	Fire Station #09	1100 Central Avenue		2016
FIRE	Fire Station #10	2210 W 36th Avenue		2016
FIRE	Fire Station #11	3100 State Avenue		2016
FIRE	Fire Station #14	2615 N 27th Street		2016
FIRE	Fire Station #15	444 Kindleberger Road		2016
FIRE	Fire Station #16	1437 S 55th Street		2016
FIRE	Fire Station #17	2416 S 51st Street		2016
FIRE	Fire Station #18	5427 Leavenworth Road		2016
FIRE	Fire Station #19	1011 N 80th Terrace		2016
FIRE	Fire Station #20	7741 Kansas Avenue		2016
STREETS	Street Dept.	8205 Riverview Avenue		2017
STREETS	Street Dept. North Barn, Shed	90 Garfield Avenue		2017
STREETS	Street Dept. Truck Garage	6803 Cernech Road		2017
PUBLIC LEEVE	Cold Storage, Public Levee Maintenance Buildings	1401 Fairfax Trafficway		2017
PUBLIC LEEVE	Public Levee Bldg Storage #A - E	3100 Fairfax Trafficway		2017
POLICE	Police Department Garage	542 Ann Avenue		2017
POLICE	Animal Control	3301 Park Drive		2017
POLICE	Community Policing, Midtown Patrol	4601 State Avenue		2017
POLICE	Division 2 Police Station	1011 N 80th Terrace		2017
POLICE	Division 3 Police Station	2151 S 34th Street		2017

Non-regulated UG-Owned/Operated and UG-Operated Facilities Registry - Schedule of Visits for 2016 - 2017

Date: 7-Dec-15

DEPARTMENT	FACILITY	ADDRESS	LAST_VISIT	NEXT VISIT
POLICE	Midtown Patrol	910 N 47th Street		2017
POLICE	Neighborhood Resource Center	4953 State Avenue		2017
POLICE	Police Academy	7340 State Avenue		2017
POLICE	Police Dept. Firing Range	4800 N 47th Street		2017
POLICE	Police Headquarters	700 Minnesota Avenue		2017
POLICE	Traffic Support	6000 Leavenworth Road		2017
POLICE	UG Communications Center	6642 Riverview Avenue		2017
COURT	District Court	711 Armstrong Avenue		2017
COURT	Election Office	850 State Avenue		2017
COURT	Justice Complex, Parking Garage #D	725 Ann Avenue		2017
COURT	Municipal Bldg (multiple use)	710 N 7th Street		2017
B & L	Court Service & Correctional	812 N 7th Street		2017
B & L	Public Works, Public Levee	2151 S 34th Street		2017
B & L	Parking Garage #A	741 Nebraska Avenue		2017
B & L	Parking Garage #B	625 State Avenue		2017
B & L	Parking Garage #C	7th Street & Armstrong Avenue		2017
B & L	Parking Garage #E	600 Ann Avenue		2017
B & L	Sunflower Golf Course Maint. Shop	12200 Riverview Avenue		2017
B & L	Treasurer, Appraiser Offices	8200 State Avenue		2017
B & L	Radio Tower Building	3007 N 53rd Street		2017
B & L	WDDS Development	842 State Ave		2017
B & L	Public Health Center, Records Mgmt.	619 Ann Avenue		2017
B & L	Storage Shed	9700 State Avenue		2017
WPC	FPS 01	10 Market Street	2015	
WPC	FPS 02	24th Street & Strong Avenue	2015	
WPC	FPS 08, CID	396 Central Avenue	2015	
WPC	FPS 10	9 Shawnee Avenue	2015	
WPC	FPS 11	1137 S 5th Street	2015	
WPC	FPS 12	1197 S Mill Street	2015	
WPC	FPS 13	1171 S 12th Street	2015	
WPC	FPS 14	2105 Osage Avenue	2015	
WPC	FPS 15	1717 Strong Avenue	2015	
WPC	FPS 16, CID	295 Central Avenue	2015	
WPC	Maintenance	10 Market Street	2015	
WPC	PS 01	300 N 4TH ST	2015	
WPC	PS 02	300 N JAMES ST	2015	
WPC	PS 03	1520 N 2ND ST	2015	
WPC	PS 04	3770 FAIRBANKS AVE	2015	
WPC	PS 05	5091 KANSAS AVE	2015	
WPC	PS 06	8260 KAW DR	2015	
WPC	PS 07	5611 KAW DR	2015	
WPC	PS 08	7544 RICHLAND AVE	2015	
WPC	PS 09	800 N 41ST ST	2015	
WPC	PS 10	3120 N 83RD ST	2015	
WPC	PS 11	9191 MINNESOTA AVE	2015	
WPC	PS 12	3102 W 43RD AVE	2015	
WPC	PS 13	1400 N 74TH ST	2015	
WPC	PS 14	2080 S 18TH ST	2015	
WPC	PS 15	10614 ROWLAND AVE	2015	
WPC	PS 16	11800 POLFER RD	2015	
WPC	PS 17	9402 STATE AVE	2015	
WPC	PS 18	5830 INLAND DR	2015	
WPC	PS 19	1196 S 39TH ST	2015	

Non-regulated UG-Owned/Operated and UG-Operated Facilities Registry - Schedule of Visits for 2016 - 2017

Date: 7-Dec-15

DEPARTMENT	FACILITY	ADDRESS	LAST_VISIT	NEXT VISIT
WPC	PS 20	1006 S 49TH DR	2015	
WPC	PS 21	897 S 51ST ST	2015	
WPC	PS 22	690 S 54TH ST	2015	
WPC	PS 23	6020 KANSAS AVE	2015	
WPC	PS 24	388 S 65TH ST	2015	
WPC	PS 25	3356 N 34TH ST	2015	
WPC	PS 26	3231 N 38TH ST	2015	
WPC	PS 27	2998 N 42ND ST	2015	
WPC	PS 28	2830 N 44TH ST	2015	
WPC	PS 29	3022 N 48TH ST	2015	
WPC	PS 30	3240 N 84TH PL	2015	
WPC	PS 31	880 S 65TH ST	2015	
WPC	PS 32	1865 SAINT PAUL ST	2015	
WPC	PS 32A	613 DOUGLAS AVE	2015	
WPC	PS 33	2601 S 88TH ST	2015	
WPC	PS 34	3225 N 46TH ST	2015	
WPC	PS 35	4332 STATE AVE	2015	
WPC	PS 36	2847 N 99TH ST	2015	
WPC	PS 37	4607 CAMBRIDGE ST	2015	
WPC	PS 39	1830 S 13TH ST	2015	
WPC	PS 40	625 METROPOLITAN AVE	2015	
WPC	PS 41	3252 N 91ST ST	2015	
WPC	PS 42	4801 STEELE RD	2015	
WPC	PS 43	8009 KANSAS AVE	2015	
WPC	PS 44	9920 WOODEND RD	2015	
WPC	PS 45	401 N 57TH ST	2015	
WPC	PS 46	831 S 78TH ST	2015	
WPC	PS 47	403 ORVILLE AVE	2015	
WPC	PS 48	7324 OLIVER ST	2015	
WPC	PS 49	2059 S 50TH ST	2015	
WPC	PS 50	10421 DONOHOO RD	2015	
WPC	PS 51	3401 FAIRFAX TRFY	2015	
WPC	PS 52	17 OHIO ST	2015	
WPC	PS 53	3198 WOODVIEW RIDGE DR	2015	
WPC	PS 54	8054 LEAVENWORTH RD	2015	
WPC	PS 55	3500 N 27TH ST	2015	
WPC	PS 56	1399 S 55TH ST	2015	
WPC	PS 57	5098 DOUGLAS AVE	2015	
WPC	PS 58	1715 N 98TH ST	2015	
WPC	PS 59	9590 LEAVENWORTH RD	2015	
WPC	PS 60	2938 103RD TER	2015	
WPC	PS 61	123RD AND DONAHOO ROAD	2015	
WPC	PS 62	1599 S 45TH ST	2015	
WPC	PS 63	123RD ST AND LEAVENWORTH RD	2015	
WPC	PS 64	119TH STATE AVE	2015	
WPC	PS 65	135TH STATE AVE	2015	
WPC	PS 66	11011 HOLLINGSWORTH RD	2015	
WPC	PS 67	3306 N 128TH ST	2015	
WPC	PS 68	11430 CLEVELAND AVE	2015	
WPC	PS 69	N 121ST TER	2015	
WPC	PS 70	5425 N 99TH ST	2015	
WPC	PS 71	92ND ST AND PARALLEL AVE	2015	
WPC	PS 72	10500 AUGUSTA DR	2015	

Non-regulated UG-Owned/Operated and UG-Operated Facilities Registry - Schedule of Visits for 2016 - 2017

Date: 7-Dec-15

DEPARTMENT	FACILITY	ADDRESS	LAST_VISIT	NEXT VISIT
WPC	PS 73	10651 AUGUSTA DR	2015	
WPC	PS 74	1910 N 92ND TER	2015	
WPC	PS 78	12708 HUBBARD RD	2015	
WPC	PS 79	5229 N 130TH TER	2015	
WPC	PS 83	10635 KAW DR	2015	
WPC	PS 84	10901 KAW DR	2015	
WPC	Wastewater Treatment Plant (<1MGD)	4130 Brenner Road	2015	
WPC	Wolcott WWWTP (<1MGD)	5335 N 95th Street	2015	
WPC	WWTP #14 (<1MGD)	7014 Holiday Drive	2015	

Visits in 2015 = 92
Visits in 2016 = 42
Visits in 2017 = 33

NON-REGULATED UG FACILITIES 2015 INSPECTION SUMMARY

Summary of Non-regulated UG Owned and/or Operated Site Visits in 2015

Summary Date: 2-Dec-15

FACILITY	ADDRESS	DATE	COMMENTS
FPS 01	10 Market Street	30-Sep	Clean
FPS 02	24th Street & Strong Avenue	1-Oct	Clean
FPS 08	396 Central Avenue	1-Oct	Accumulated trash
FPS 10	9 Shawnee Avenue	26-Jun	Clean
FPS 11	1137 S 5th Street	29-Sep	Clean
FPS 12	1197 S Mill Street	29-Sep	Clean
FPS 13	1171 S 12th Street	29-Sep	Clean
FPS 14	2105 Osage Avenue	29-Sep	Clean
FPS 15	1717 Strong Avenue	30-Sep	Clean
FPS 16	295 Central Avenue	30-Sep	Clean
WWPS 01	300 N 4th Street	1-Oct	Clean
WWPS 02	300 N James Street	9-Sep	Clean
WWPS 03	1520 N 2nd Street	9-Sep	Clean
WWPS 04	3770 Fairbanks Avenue	17-Sep	Clean
WWPS 05	5091 Kansas Avenue	17-Sep	Ponded water with bad smell; oil stains from vent on ground
WWPS 06	8260 Kaw Drive	1-Oct	Debris from barscreens
WWPS 07	5611 Kaw Drive	17-Sep	Clean
WWPS 08	7544 Richland Avenue	1-Oct	Clean
WWPS 09	800 N 41st Street	17-Sep	Clean
WWPS 10	3120 N 83rd Street	5-Oct	Clean
WWPS 11	9191 Minnesota Avenue	26-Jun	Erosion
WWPS 12	3102 W 43rd Avenue	-	Abandoned Not Inspected
WWPS 13	1400 N 74th Street	1-Oct	Clean
WWPS 14	2080 S 18th Street	1-Oct	Clean
WWPS 15	10614 Rowland Avenue	26-Jun	Clean
WWPS 16	11800 Polfer Road	26-Jun	Clean
WWPS 17	9402 State Avenue	-	Abandoned Not Inspected
WWPS 18	5830 Inland Drive	28-Sep	Clean
WWPS 19	1196 S 39th Street	28-Sep	Clean
WWPS 20	1006 S 49th Drive	1-Oct	Clean
WWPS 21	897 S 51st Street	28-Sep	Clean
WWPS 22	690 S 54th Street	28-Sep	Clean
WWPS 23	6020 Kansas Avenue	28-Sep	Clean
WWPS 24	388 S 65th Street	17-Sep	Clean
WWPS 25	3356 N 34th Street	1-Oct	Clean
WWPS 26	3231 N 38th Street	1-Oct	Erosion at overflow outlet
WWPS 27	2998 N 42nd Street	1-Oct	Erosion
WWPS 28	2830 N 44th Street	1-Oct	Erosion at SE corner
WWPS 29	3022 N 48th Street	1-Oct	Clean
WWPS 30	3240 N 84th Place	26-Jun	Clean
WWPS 31	880 S 65th Street	1-Oct	Clean
WWPS 32	1865 Saint Paul Street	17-Sep	Clean
WWPS 32A	613 Douglas Avenue	1-Oct	Clean
WWPS 33	2601 S 88th Street	26-Jun	Clean
WWPS 34	3225 N 46th Street	1-Oct	Clean

NON-REGULATED UG FACILITIES 2015 INSPECTION SUMMARY

FACILITY	ADDRESS	DATE	COMMENTS
WWPS 35	4332 State Avenue	17-Sep	Clean
WWPS 36	2847 N 99th Street	26-Jun	Clean
WWPS 37	4607 Cambridge Street	1-Oct	Clean
WWPS 39	1830 S 13th Street	1-Oct	Clean
WWPS 40	625 Metropolitan Avenue	17-Sep	Clean
WWPS 41	3252 N 91st Street	26-Jun	Clean
WWPS 42	4801 Steele Road	28-Sep	Clean
WWPS 43	8009 Kansas Avenue	17-Sep	Clean
WWPS 44	9920 Woodend Road	17-Sep	Erosion along south side of fence
WWPS 45	401 N 57th Street	17-Sep	Clean
WWPS 46	831 S 78th Street	17-Sep	Clean
WWPS 47	403 Orville Avenue	2-Oct	Clean
WWPS 48	7324 Oliver Street	5-Oct	Clean
WWPS 49	2059 S 50th Street	28-Sep	Clean
WWPS 50	10421 Donahoo Road	26-Jun	Clean, Salt stored on-site, covered
WWPS 51	3401 Fairfax Trafficway	2-Oct	Clean
WWPS 52	17 Ohio Street	2-Dec	Clean
WWPS 53	3198 Woodview Ridge Drive	1-Oct	Clean
WWPS 54	8054 Leavenworth Road	26-Jun	Clean
WWPS 55	3500 N 27th Street	1-Oct	Clean
WWPS 56	1399 S 55th Street	1-Oct	Clean
WWPS 57	5098 Douglas Avenue	28-Sep	Clean
WWPS 58	1715 N 98th Street	-	Abandoned Not Inspected
WWPS 59	9590 Leavenworth Road	26-Jun	Clean
WWPS 60	2938 103rd Terrace	26-Jun	Clean
WWPS 61	123rd Street & Donahoo Road	26-Jun	Clean
WWPS 62	1599 S 45th Street	28-Sep	Clean
WWPS 63	123rd Street & Leavenworth Road	26-Jun	Clean
WWPS 64	119th Street & State Avenue	26-Jun	Clean
WWPS 65	135th Street & State Avenue	26-Jun	Clean
WWPS 66	11011 Hollingsworth Road	26-Jun	Clean
WWPS 67	3306 N 128th Street	26-Jun	Clean
WWPS 68	11430 Cleveland Avenue	26-Jun	Clean
WWPS 69	N 121st Terrace	26-Jun	Clean
WWPS 70	5425 N 99th Street	26-Jun	Clean
WWPS 71	92nd Street & Parallel Parkway	26-Jun	Clean
WWPS 72	10500 Augusta Drive	26-Jun	Clean
WWPS 73	10651 Augusta Drive	26-Jun	Clean
WWPS 74	1910 N 92nd Terrace	26-Jun	Clean
WWPS 78	12708 Hubbard Road	26-Jun	Clean
WWPS 79	5229 N 130th Terrace	26-Jun	Clean
WWPS 80	5837 Walker Avenue	17-Sep	Clean
WWPS 83	10635 Kaw Drive	17-Sep	Clean
WWPS 84	10901 Kaw Drive	17-Sep	Clean
WWTP 3	4130 Brenner Road	1-Oct	Clean
WWTP 14	7114 Holliday Drive	5-Oct	Clean
WWTP 15	5335 N 95th Street	5-Oct	Clean
Kaw Point	50 Market Street	2-Dec	Clean



**Unified Government of Wyandotte County/ Kansas City, Kansas
Stormwater Management Program – Pollution Prevention/Good
Housekeeping
Municipal Facility Good Housekeeping Inspection Form**

Sanitary Sewer Pump Station Check List

Name: _____ Date: _____ Time: _____

Facility: _____

Physical Address: _____

1) Is the outside of the facility clean and well kept? Yes No

Comments: _____

2) Is there evidence of spills or pollutants on the ground exposed to stormwater? Yes No

Comments: _____

3) Comments: _____

Preventing Storm Water Pollution:

What We Can Do

~Fleet Maintenance~



FUELING



- Clean fueling areas often using approved methods.
- **DO NOT** top off fuel tank.
- Know location of emergency pump shut-off button.

GENERAL GUIDELINES



- Park damaged, leaking, or dirty vehicles under cover.



- Keep maintenance areas clean by promptly disposing of waste.

DISPOSAL METHODS



- Recycle or properly dispose of all used fluids, hydraulic filters, and batteries.



- Store all used fluids in properly labeled containers.

PARTS CLEANING



- Clean parts using designated cleaning stations.
- Allow parts to fully drain before removing from cleaning station.

Employees who service and repair our vehicles and equipment can help reduce water pollution by following precautions in their daily activities.

Protecting water quality requires that all employees do their part to prevent storm water pollution.

LEAKS and SPILLS



- Inspect for leaks or stains around vehicles and equipment.



- Immediately clean up spills.

SHOP and PAVEMENT CLEANING



- **DO NOT** hose down outside work areas.
- Use dry methods to clean work areas.
- Dispose of mop water properly.
- Clean outside work areas when rain is forecast.



WASHING



- Wash equipment and vehicles in designated facilities.

Preventing Storm Water Pollution:

What We Can Do

~ Materials Storage and Spill Cleanup ~



GENERAL TOPICS

Employees can help reduce waste and water pollution by making sure that materials:

- are NOT spilled or washed into storm drain systems;
- are stored and handled safely; and
- are cleaned up properly.

STORE and HANDLE MATERIALS SAFELY



- Read and follow label or MSDS instructions and local procedures.
- Store materials in original containers or clearly label replacement containers.



- Keep containers closed or sealed except when in use.
- Maintain all containers and replace those that leak.
- Inspect all containers regularly.



STORING MATERIALS and CONTAINERS



- BEST-indoors in sealed containers.
- GOOD-outdoors in sealed containers, within a covered, paved area.
- ACCEPTABLE-outdoors in sealed containers, on an uncovered, paved area.



SPILL TRAPPING DEVICE RECOMMENDATIONS



- Indoors-store barrels on a spill containment base.
- Outdoors-storage areas should be bordered by a curb or berm to contain spills.



- Store materials away from high-traffic areas to prevent accidents that might cause spills or cause spilled material to be spread.

LIQUIDS SPILLS

- Follow cleanup instructions specified on the MSDS and local procedures.
- Containing spills:
 - Use a drip pan or an absorbent to collect spills.
 - Use drain mats to cover storm drain inlets.



- Locate the source of the spill and take steps to stop further spillage.

- DO NOT hose the spill into a storm drain.



- Immediately clean up spills using absorbent materials and follow proper disposal procedures.



- Report large spills or spills of hazardous materials to your supervisor or environmental department personnel.

DRY MATERIAL SPILLS

- Cover a powder spill with plastic sheeting to keep it from spreading until the spill can be cleaned up.
- DO NOT hose the spill into a storm drain.
- If usable, place spilled material in original or properly marked container.
- Follow procedures for disposal of spilled material that cannot be used.

CONCLUSION

Protecting water quality requires that all employees do their part to prevent storm water pollution.

Preventing Storm Water Pollution:

What We Can Do

~Streets and Drainage Maintenance~



STORM DITCH MAINTENANCE



- Sample and analyze materials removed from ditches if it appears to be contaminated with oil or other pollutants.



- Contaminated sediments must be disposed in accordance with established procedures.



- Unpolluted soil may be used onsite as fill or stockpiled for other land application.



- Cover soil stockpiles to prevent erosion and/or install silt fence to capture sediment.



- Prevent erosion by applying grass seed to exposed soils.



- Use turf reinforcement mats to protect channels until vegetation is established.

STORM DRAIN INLET CLEANING

- Properly dispose of trash and debris removed from inlets.



- Report suspected dumping or pollution problems to supervisory personnel.



- Apply “NO DUMPING” markers to inlets where there is evidence of dumping.

REPORT POLLUTION and ILLEGAL DUMPING



- Look for signs of pollution during travel:
 - odor
 - oil sheen on water surface
 - excess trash and debris
 - colored or cloudy water
 - dead or dying fish.

- Report suspected pollution problems to supervisory personnel.



CONCLUSION

Protecting water quality requires that all employees do their part to prevent storm water pollution.

Preventing Storm Water Pollution: What We Can Do ~Land Disturbances~



GENERAL TOPICS

Employees can help reduce water pollution by preventing dirt and debris from being washed into the storm drain system during the following activities:

- Utility repairs
 - » Water and sanitary sewer lines
 - » Storm drain systems
- Street repairs
- Sidewalk construction and repairs
- Landscaping (parks, building, medians)
- Power pole installation and replacement

DEFINITIONS

- Erosion is the removal or wearing away of soil due to water or wind.



- Sediment is the soil that settles out of flowing water.

GENERAL PRINCIPLES

- **Note:** Projects that disturb more than one acre must comply with the state's storm water permit for construction activities.



- If a permit is required, your supervisor or environmental coordinator will provide specific instructions.

- Preventing erosion is more effective than trying to remove sediment from runoff.
- Minimize the amount of disturbed area.
- Divert runoff or flowing water away from disturbed areas.



- Potential pollutants on construction sites include soil, trash, debris, oil, grease, lime, concrete truck wash water, etc.

- Projects must be managed to prevent or reduce soil and other pollutants from entering storm drains, creeks, or lakes.



- Locate stockpiles out of the street and away from runoff or flowing water to prevent sediment from washing into storm drains.
- Cover stockpiles or provide a barrier such as an organic filter berm or silt fence around the pile.



Preventing Storm Water Pollution:

What We Can Do

~Land Disturbances~



BEST MANAGEMENT PRACTICES

Best Management Practices (BMPs) are physical devices or procedures used to reduce or prevent pollution of lakes, streams or rivers.

- Erosion Control BMPs are used to protect disturbed soils from being washed away by rainfall or runoff.
- Sediment Control BMPs are used to trap sediment carried by runoff to keep it on the construction site.
- Waste Management BMPs are good housekeeping practices to control trash, chemicals, and debris.

EROSION CONTROL BMPs

- Vegetation - grasses or other plants that provide permanent erosion protection.
- Mulching - a layer of straw or wood mulch.



- Erosion control blankets - mesh matting made of straw, wood fiber, or plastic.
- Plastic sheeting - may be used for short term protection of disturbed areas or dirt stockpiles.

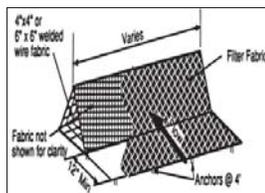
SEDIMENT CONTROL BMPs

- Organic filter berm - a 1 to 3 foot high berm of mulch and compost placed around a disturbed area.



- Silt fence - filter fabric trenched into the soil and attached to supporting posts.

- Triangular sediment dike - filter fabric \ placed over filter fabric placed over welded wire shaped into a triangle.



- Inlet protection - filter fabric or stone placed around or in front of a storm drain inlet.



WASTE MANAGEMENT BMPs



- Debris and trash control - use covered trash cans, bins, and/or roll off boxes for disposing trash and debris.

- Chemical management - follow proper material storage and spill cleanup procedures for chemicals used on construction sites.



- Concrete washout - use designated facilities to capture wash water from concrete truck cleaning.



CONCLUSION

Protecting water quality requires that all employees do their part to prevent storm water pollution.

APPENDIX B.14 Industrial Activity SW Management Program

2015 - UG Registry of Industrial Facilities for MS4 Industrial Stormwater Runoff Program

Updated: 5-Aug-15

Map #	Industrial Stormwater Group	Facility Name	Facility Address
1	C, D	AMSTED RAIL CO GRIFFIN WHEEL KC FACILITY	7111 GRIFFIN ROAD
2	C	BARTON SOLVENTS INC KANSAS CITY	901 S. 66TH TERRACE
3	A, C	BPU-NEARMAN CREEK POWER STATION	4240 N. 55TH STREET
4	C, D	DAYTON SUPERIOR CORPORATION	636 S. 66TH TERRACE
5	C	FUCHS LUBRICANTS CO	2140 S 88TH STREET
6	B, C, D	HARCROS CHEMICALS INC	5200 SPEAKER ROAD
7	C, D	PENTAIR WATER-KANSAS CITY OPERATIONS	3601 FAIRBANKS AVENUE
8	B, C	SINCLAIR KANSAS CITY PRODUCTS TERMINAL	3401 FAIRBANKS AVE

Total

Facilities: 8

- A- Municipal Landfills
- B- Hazardous waste treatment, disposal, or recovery (RCRA)
- C- Facilities Subject to Section 313 of Title III of SARA (TRI)
- D- KDHE NOI Permit Holders
- E- Industrial facilities which are found to contribute or potentially contribute
- N- Has KDHE "No Exposure" Certification

Note: Industries located in Edwardsville, Bonner Springs, Lake Quivera and Delaware township are not in the UG regulatory jurisdiction and are excluded from this list.

APPENDIX B.15 TMDLs Activities and BMPs Summary

APPENDIX B.15 TMDLs Activities and BMPs Summary

The following information summarizes the activities and BMPs incorporated to reduce, to the Maximum Extent Practicable, the Total Maximum Daily Load regulated pollutants and Principal Pollutants of Concern in the Kansas River Basin as well as in the Wyandotte County Lake Watershed.

- Pet Waste Info (flier included)
 - Number of pet waste stations installed - 5
 - Number of pet waste bags used – 2,500

- Septic Tank Info from Health Department
 - Number of letters or notices sent to owners of failing septic systems - 47
 - Number of system permits issued as a result of the notices - 47
 - Number of summons issued for failing septic systems – 0

- Wyandotte County Lake Septic Tanks Inspection and Maintenance
 - Total septic systems inspection/pumped out – N/A

PICK UP AFTER YOUR PET



Pet Waste Affects Water Quality

Every time it rains, thousands of pounds of pet waste wash down storm drains and into streams, rivers and lakes. If not disposed of properly, pet waste flows directly into nearby streams and creeks without being treated at wastewater treatment facilities.



Clean Water. Healthy Life.

What's the Problem?

A recent U.S. Geological Survey study of streams and creeks in the Kansas City region showed that bacteria associated with pet waste is the source of approximately 25% of the bacteria in samples collected from local waterways.

When pet waste is disposed of improperly, water quality isn't the only thing that suffers — your health may be at risk, too.

Adults working in their gardens, children playing outside and family pets are the most at risk for infection from some of the bacteria and parasites found in pet waste.

What Can You Do?

- Pick up pet waste from your yard. It is not a fertilizer.
- Carry disposable bags while walking your dog to pick up and dispose of waste properly. When you dispose of pet waste in the trash, wrap it carefully to avoid spilling during collection.
- Bury pet waste in your yard, at least 12 inches deep and cover with at least eight inches of soil to let it decompose slowly. Bury the waste in several different locations and keep it away from vegetable gardens.
- Contact your local parks department to inquire about providing pet waste stations in area parks, along trails and in public places where people frequently walk their dogs.



Regional Water Quality
Education Program

For more information, visit
www.marc.org/water
or call 816/474-4240



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APPENDIX B.16 Wyandotte County Lake Monitoring

**2015 Summary of Sampling - Wyandotte County Lake
Wet Weather Samples**

			Keystone Report #	pH	TSS	Total P	BOD	NH ³	TKN	NO ³	NO ²	NO ³ +NO ²	Total Nitrogen (Calculated)
Site	Date	Sample ID		(S.U)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
WyCo Lake E	3/18/2015	150318G24	1C51040	7.74	2.0	0.24	3.80	< 1.0	0.83	< 0.1	< 0.50	0.60	1.43
WyCo Lake E	4/2/2015	150402G21	1D50157	7.93	375.0	0.99	9.40	< 1.0	1.35	0.50	< 0.20	0.70	2.05
WyCo Lake E	4/12/2015	150412G07	1D50843		50.0	0.70	8.52	< 1.0	1.36	0.10	< 0.10	0.20	1.56
WyCo Lake E	5/15/2015	150515G21	1E51055	7.90	42.0	0.14	5.40	< 1.0	< 0.50	0.45	< 0.10	0.55	1.05
WyCo Lake S	3/18/2015	150318G23	1C51039	7.57	22.0	0.27	15.40	< 1.0	1.12	< 0.1	< 0.50	0.60	1.72
WyCo Lake S	4/2/2015	150402G20	1D50157	7.48	290.0	0.70	9.60	< 1.0	2.84	0.50	< 0.50	1.00	3.84
WyCo Lake S	4/12/2015	150412G08	1D50843		830.0	1.83	19.20	< 1.0	2.12	< 0.1	< 0.20	0.30	2.42
WyCo Lake S	5/15/2015	150515G20	1E51055	7.52	216.0	0.69	17.20	< 1.0	0.50	0.58	< 0.10	0.68	1.18

Dry Weather Samples

WyCo Lake E	3/17/2015	150317G29	1C50935	7.83	14.0	0.30	< 2.0	< 1.0	< 0.50	< 0.1	< 0.20	0.30	0.80
WyCo Lake E	9/23/2015	150923G24	1I51558	7.84	4.0	0.43	> 2.0	< 1.0	< 0.50	0.90	< 0.10	1.00	1.50
WyCo Lake S	3/17/2015	150317G28	1C50934	7.83	20.0	0.57	8.45	< 1.0	< 0.50	< 0.1	< 0.50	0.60	1.10
WyCo Lake S	9/23/2015	150923G23	1I51558	7.32	85.0	0.57	5.50	< 1.0	1.19	1.30	< 0.50	1.80	2.99

Dam Location

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	101	186	193
2nd measurement in inches	103	188	201
3rd measurement inches	104 1/2	189	211
4th measurement inches	105 1/2	191	191
Total in inches	414	754	796
Avg in inches	103 1/2	188 1/2	199
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	67	152	162.5
distance in feet	5.6	12.7	13.5
distance in meters	1.70	3.86	4.13
Time	11:12 AM	10:10 AM	11:20 AM
Weather	68° Clear	75° Clear	90° Clear
Latitude	N39°10'11.0"	N39°10'11.0"	N39°10'11.0"
Longitude	W094°46'22.0"	W094°46'22.0"	W094°46'22.0"

West of Dam

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	87	168 1/2	174
2nd measurement in inches	89	177	176
3rd measurement inches	91	178 1/2	177
4th measurement inches	93	182	179
Total in inches	360	706	706
Avg in inches	90	176 1/2	176 1/2
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	53 1/2	140	140
distance in feet	4.5	11.7	11.7
distance in meters	1.36	3.56	3.56
Time	11:20 AM	10:20 AM	11:30 AM
Weather	68° Clear	75° Clear	90° Clear
Latitude	N39°10'01.2"	N39°10'01.2"	N39°10'01.2"
Longitude	W094°46'51.3"	W094°46'51.3"	W094°46'51.3"

South End of Lake

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	52	74	109
2nd measurement in inches	54	76	111
3rd measurement inches	51 1/2	77	112
4th measurement inches	55	79 1/2	114
Total in inches	212 1/2	306 1/2	446
Avg in inches	53 1/8	76 5/8	111 1/2
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	16 5/8	40 1/8	75
distance in feet	1.4	3.3	6.3
distance in meters	0.42	1.02	1.91
Time	11:43 AM	10:50 AM	12:20 PM
Weather	68° Clear	75° Clear	90° Clear
Latitude	N39°09'12.1"	N39°09'12.1"	N39°09'12.1"
Longitude	W094°47'18.2"	W094°47'18.2"	W094°47'18.2"

Stotler Cove

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	69 1/2	147 1/2	149
2nd measurement in inches	71 1/2	161	151
3rd measurement inches	73	154	153
4th measurement inches	74	158	155
Total in inches	288	620 1/2	608
Avg in inches	72	155 1/8	152
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	35 1/2	118 5/8	115.5
distance in feet	3.0	9.9	9.6
distance in meters	0.90	3.01	2.93
Time	11:38 AM	10:45 AM	12:05 PM
Weather	68° Clear	80° Clear	90° Clear
Latitude	N39°09'34.8"	N39°09'34.8"	N39°09'34.8"
Longitude	W094°47'27.2"	W094°47'27.2"	W094°47'27.2"

Opposite Beach

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	87	157 1/2	158
2nd measurement in inches	88	159 1/2	161
3rd measurement inches	89 1/2	151 1/2	165
4th measurement inches	91	163	168
Total in inches	355 1/2	631 1/2	652
Avg in inches	88 7/8	157 7/8	163
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	52 3/8	121 3/8	126.5
distance in feet	4.4	10.1	10.5
distance in meters	1.33	3.08	3.21
Time	11:35 AM	10:40 AM	11:55 AM
Weather	68° Clear	75° Clear	90° Clear
Latitude	N39°09'44.7"	N39°09'44.7"	N39°09'44.7"
Longitude	W094°47'12.4"	W094°47'12.4"	W094°47'12.4"

Wilson Cove

	5/18/2015	6/29/2015	9/3/2015
	Readings	Readings	Readings
1st measurement in inches	75 1/2	127 1/2	157
2nd measurement in inches	78	129 1/2	159
3rd measurement inches	79	131	160
4th measurement inches	80	133	166
Total in inches	312 1/2	521	642
Avg in inches	78 1/8	130 1/4	160 1/2
top of rail to water in inches	<u>36 1/2</u>	<u>36 1/2</u>	<u>36 1/2</u>
Water to secchi disk in inches	41 5/8	93 3/4	124
distance in feet	3.5	7.8	10.3
distance in meters	1.06	2.38	3.15
Time	11:26 AM	10:28 AM	11:40 AM
Weather	68° Clear	75° Clear	90° Clear
Latitude	N39°09'36.4"	N39°09'36.4"	N39°09'36.4"
Longitude	W094°46'41.4"	W094°46'41.4"	W094°46'41.4"

APPENDIX B.17 Stormwater Monitoring and Trend Analysis Results

Wet Weather Analysis and Summary of 2015 Events

In April 2014, the UG received a draft MS4 NPDES Permit from the KDHE. Proposed wet weather sampling and monitoring requirements were included in the draft permit, which have an impact on the UG's current wet weather sampling program. Due to the nature and variety of proposed changes, the UG elected to postpone any modifications to its existing sampling program until the permit was finalized. Minor changes were considered and emphasis was placed on the importance of timely sampling. Similar challenges remained in 2015 which have affected the sampling program in past years.

The first quarter of 2015 proved challenging for sampling. Cold temperatures and dry conditions produced only 1 storm on January 31, with provided sufficient rainfall amounts for sampling. Unfortunately, the storm was not widespread enough for all sampling stations to gather samples. As such, only R-1 was able to gather samples for 2015. Construction projects upstream of R-3, and technical problems plagued the sampler and prevented sampling throughout the year. The sampling results for each station are summarized below:

R-1

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	635	26,605	5	89	38	322	1,056	7	408	167	11
2013	849	10,086	5	74	53	464	3180	7	665	279	11
2014	1,200	8,733	5	48	40	356	294	4	184	55	13
2015	254	84,872	5	38	18	177	140	6	154	55	18

R-2

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	289	14,524	5	36	39	346	210	8	342	135	18
2013	539	5,060	5	49	25	502	353	7	822	379	13
2014	414	19,006	5	38	20	333	258	4	403	203	30
2015	83	12,777	5	21	8	160	99	4	230	72	10

R-2UP

	BOD	E Coli	Cd	Cu	Zn
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L
Overall	8	3,206	5	24	143
2013	6	407	5	13	66
2014	5	1,054	5	10	58
2015	14	10,075	5	20	204

R-3

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	383	43,417	5	29	37	147	153	5	162	75	16
2013	891	103,410	5	49	22	223	265	6	241	83	19
2014	485	1,203	5	38	15	108	194	4	135	23	27
2015	-	-	-	-	-	-	-	-	-	-	-

R-3UP

	BOD	E Coli	Cd	Cu	Zn
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L
Overall	31	146,498	5	27	72
2013	39	10,538	5	10	50
2014	54	70,8960	5	46	138
2015	11	8,914	5	7	35

R-4

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	544	12,697	5	58	52	297	473	7	268	51	22
2013	362	3,721	5	80	110	518	1037	6	528	118	13
2014	578	7,701	5	73	14	267	392	16	269	18	36
2015	890	17,813	5	122	36	616	435	14	256	62	36

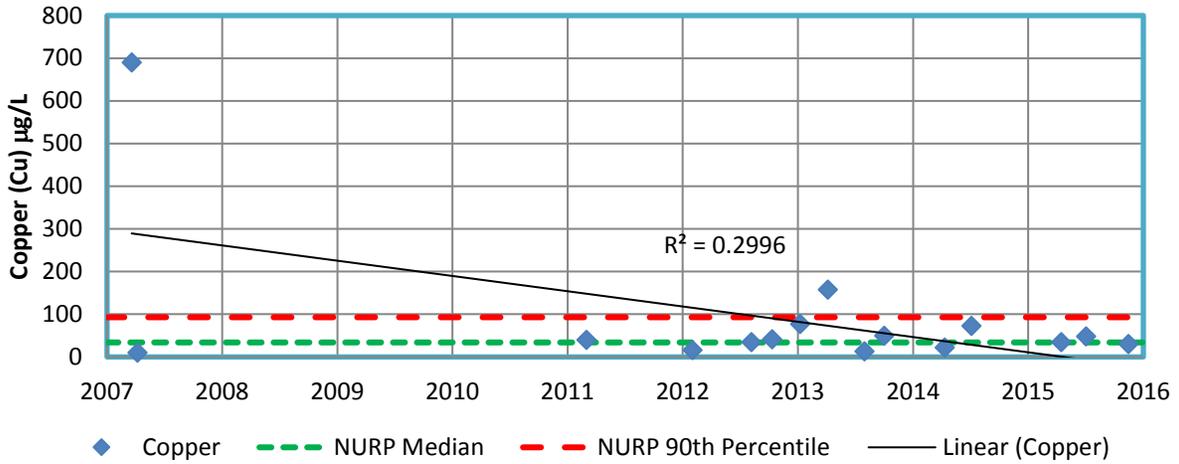
R-5

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	490	6,789	5	47	58	325	365	5	237	39	56
2013	592	6,369	5	40	52	599	314	6	302	53	11
2014	704	11,769	5	66	85	492	442	7	358	68	32
2015	589	1,621	5	39	36	144	429	4	267	52	17

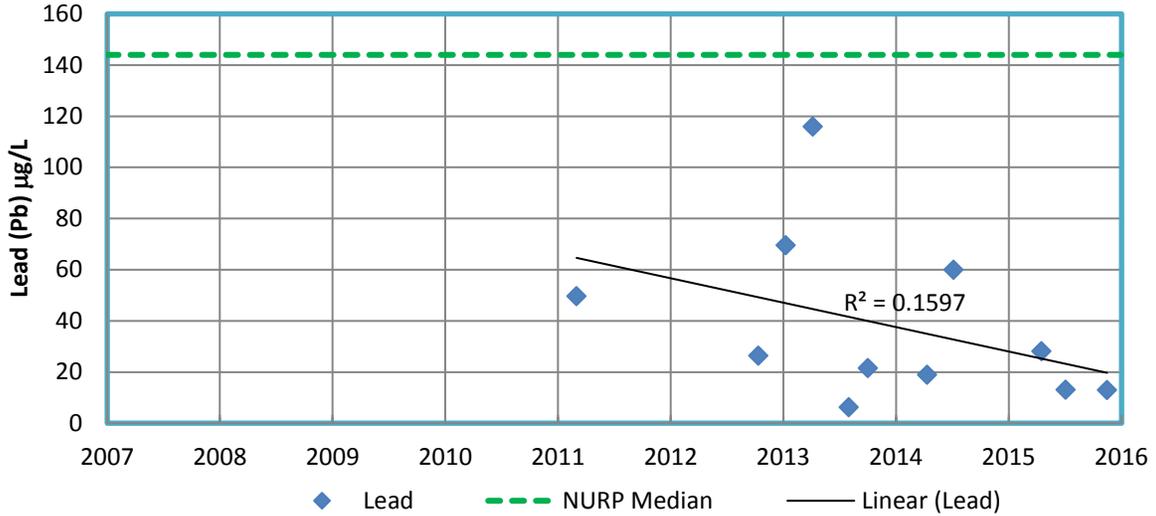
R-7

	TSS	E Coli	Cd	Cu	Pb	Zn	Hardness	O&G	TDS	Chloride	BOD
Average	(mg/L)	(col/100 mL)	µg/L	µg/L	µg/L	µg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Overall	204	48,652	5	28	11	345	147	2	263	79	10
2013	550	129,500	7	38	22	786	317	0	314	85	9
2014	44	34,982	5	23	10	78	83	5	154	17	9
2015	80	5,758	5	32	4	231	93	4	125	15	10

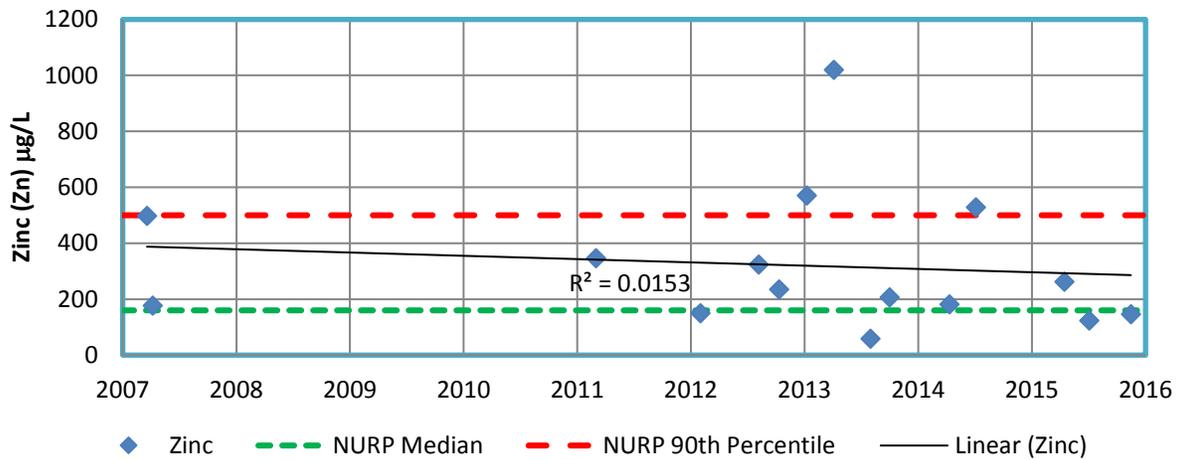
Copper vs. Time - R-1



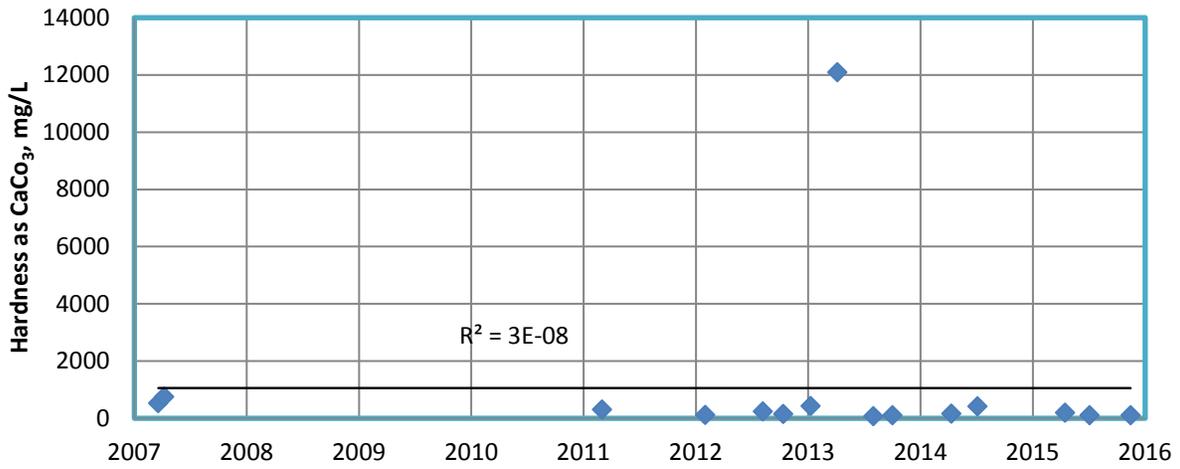
Lead vs. Time - R-1



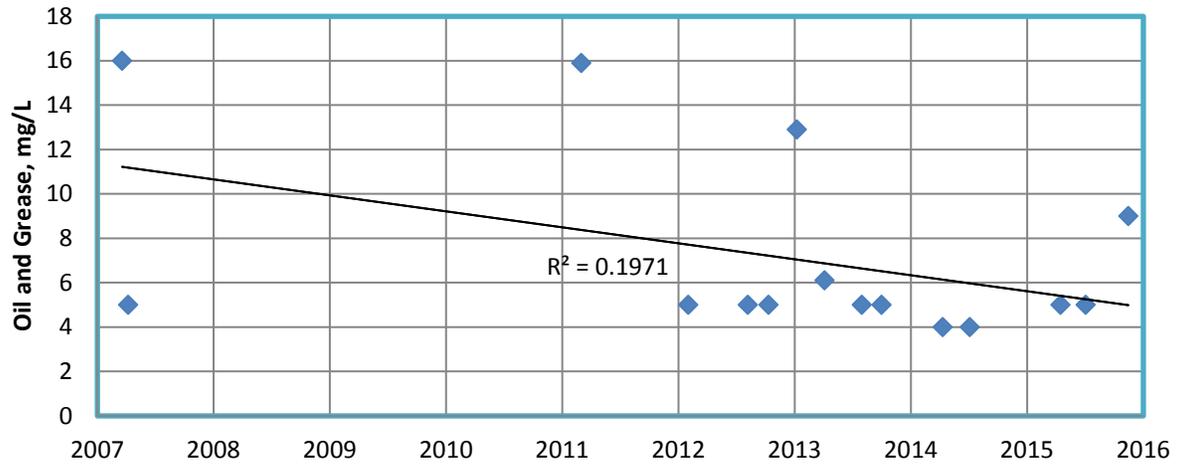
Zinc vs. Time - R-1



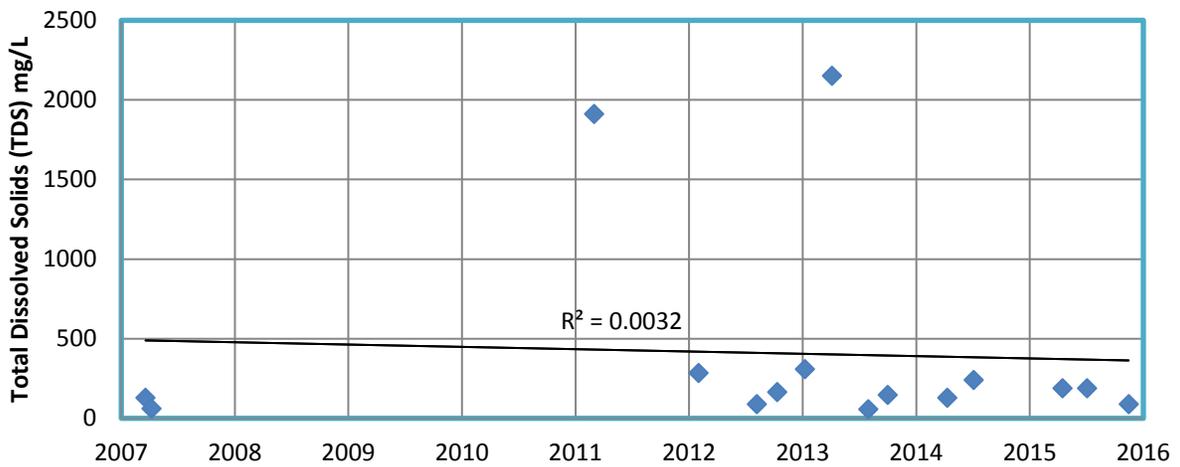
Hardness as CaCo₃ vs. Time - R-1



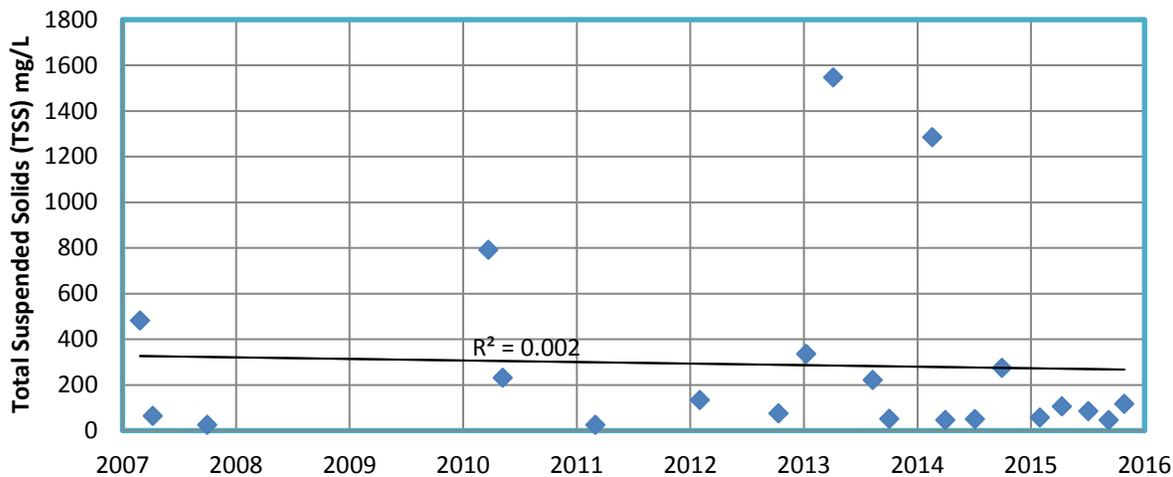
Oil and Grease vs. Time - R-1



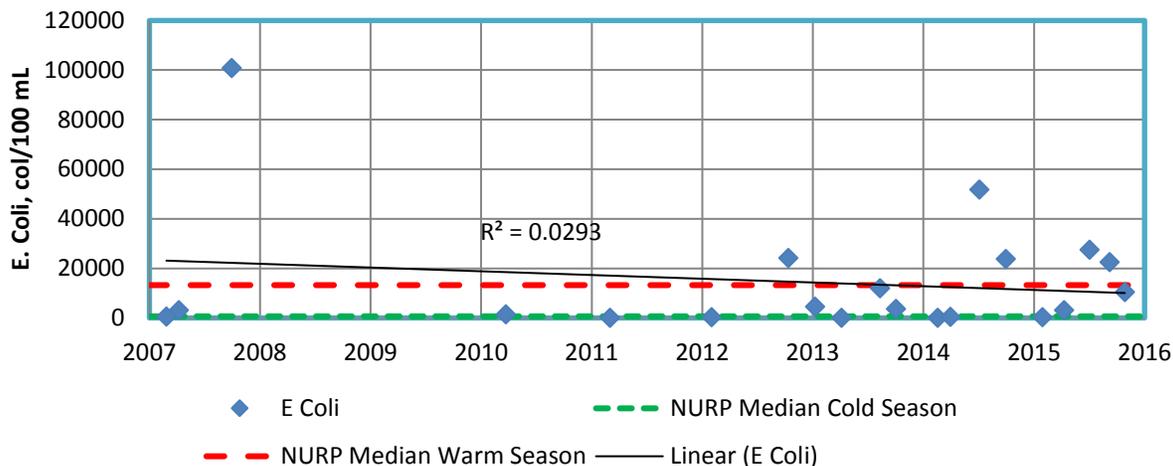
Total Dissolved Solids (TDS) vs. Time - R-1



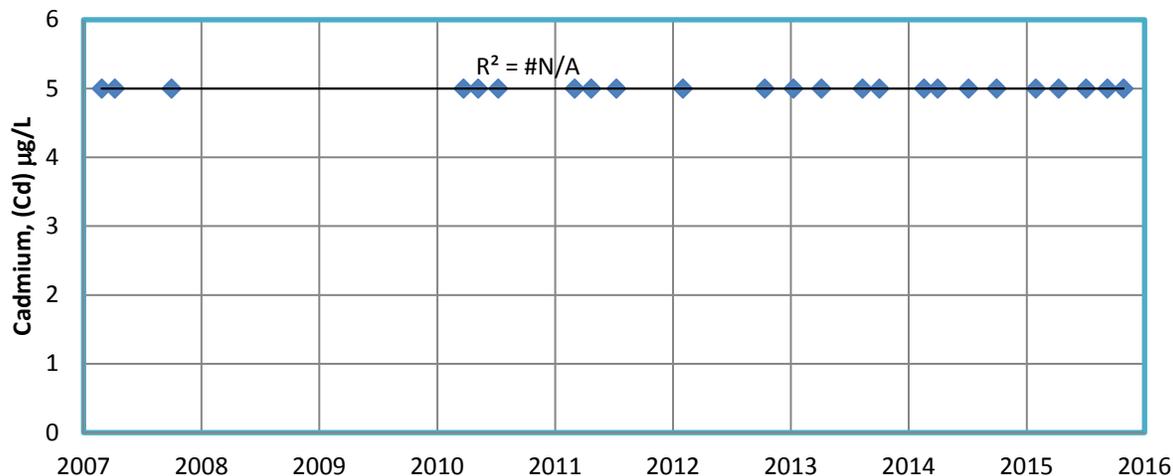
Total Suspended Solids (TSS) vs Time - R-2



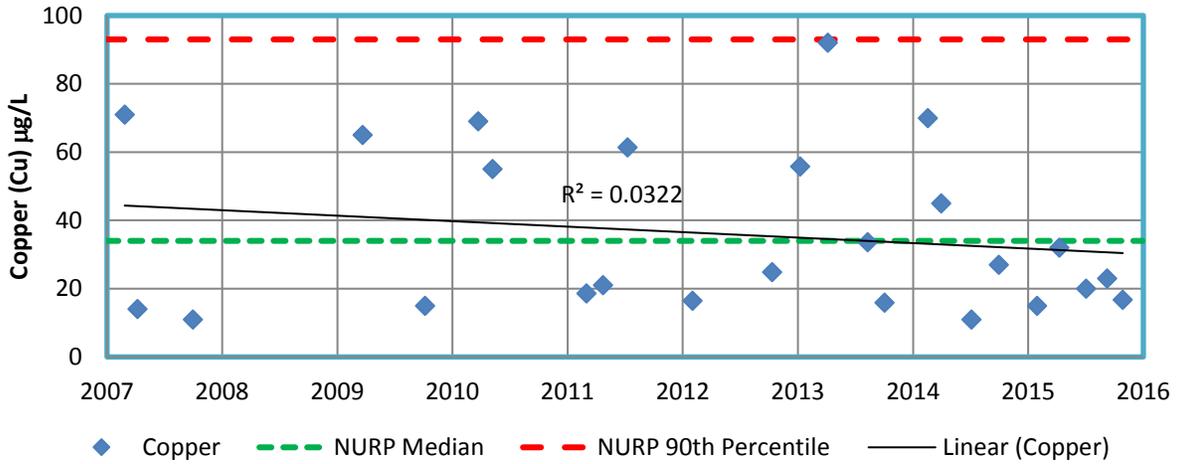
E. Coli vs. Time - R-2



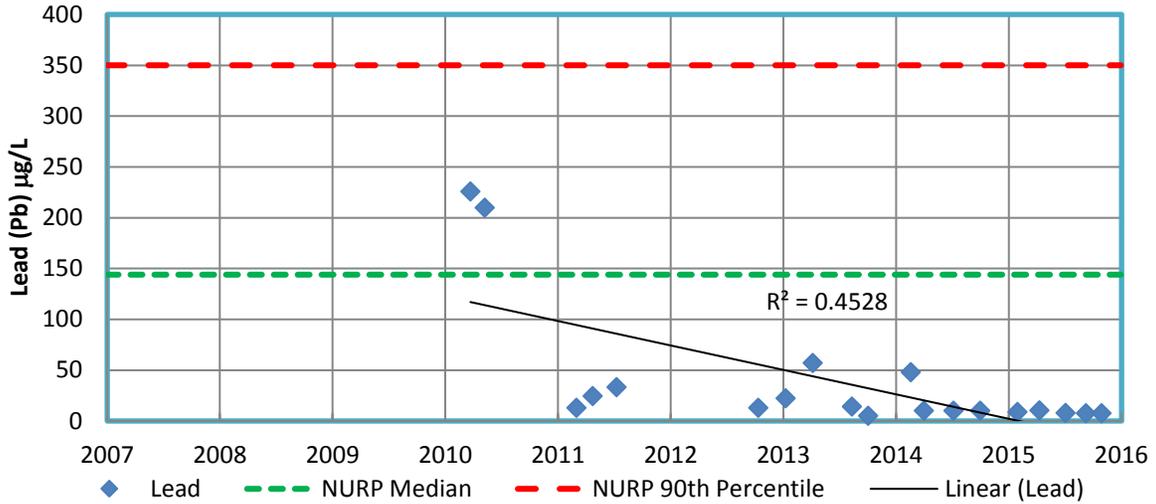
Cadmium vs. Time - R-2



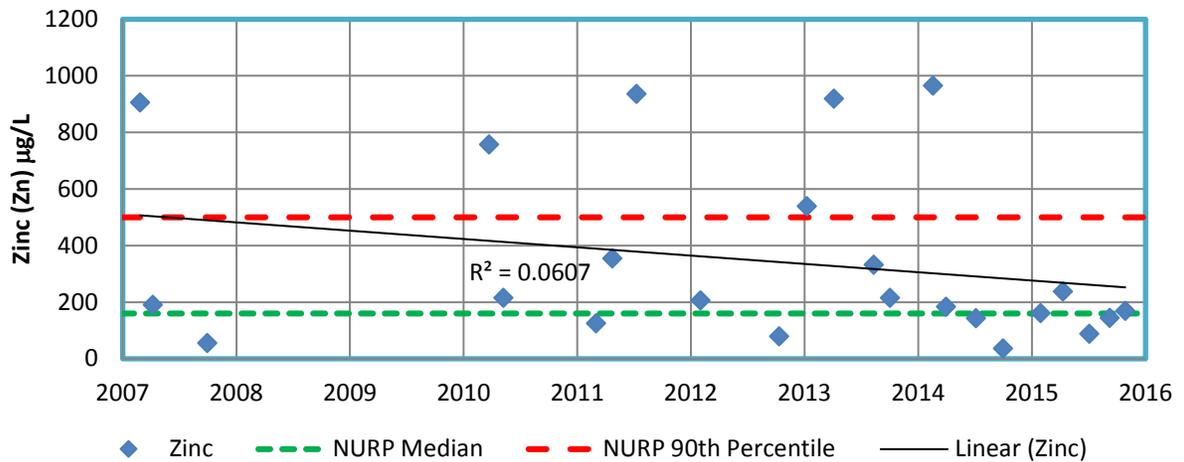
Copper vs. Time - R-2



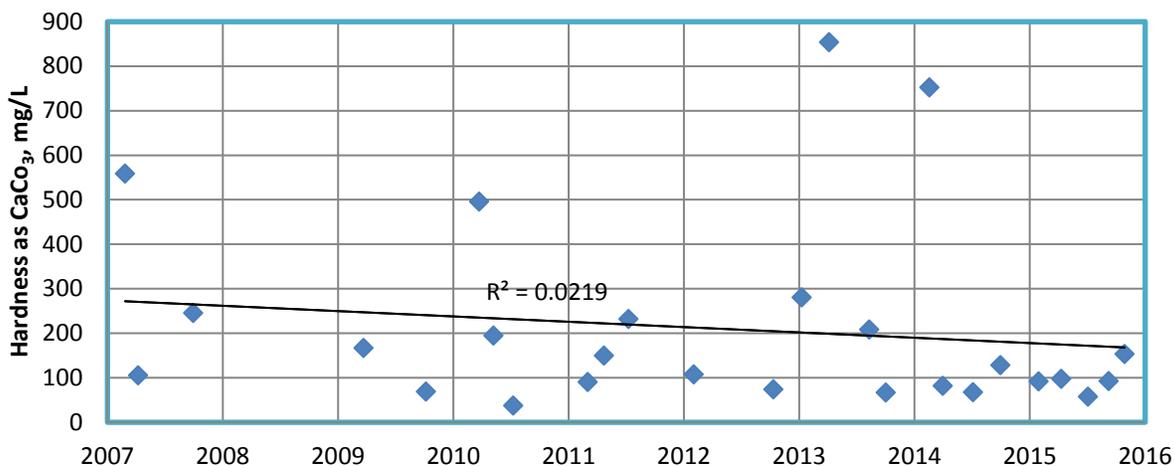
Lead vs. Time - R-2



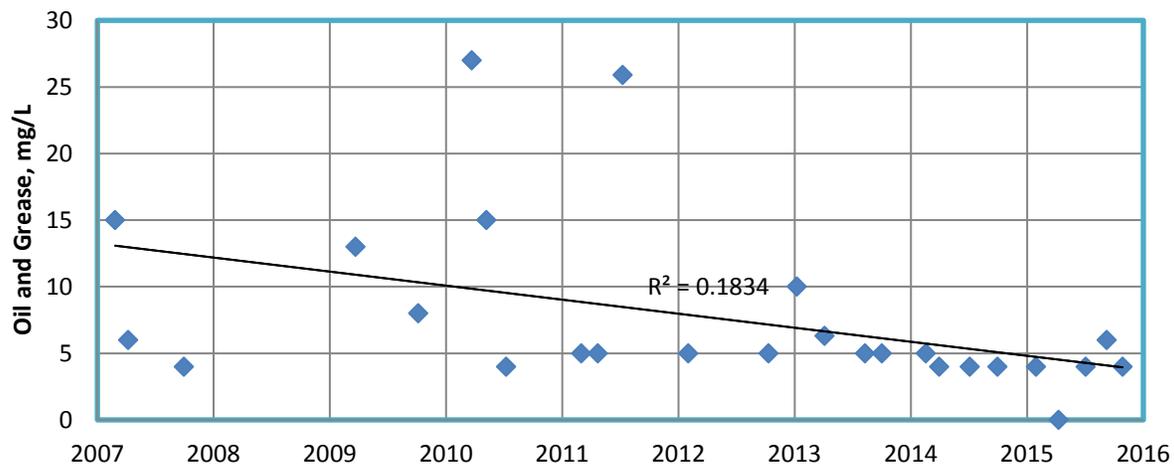
Zinc vs. Time - R-2



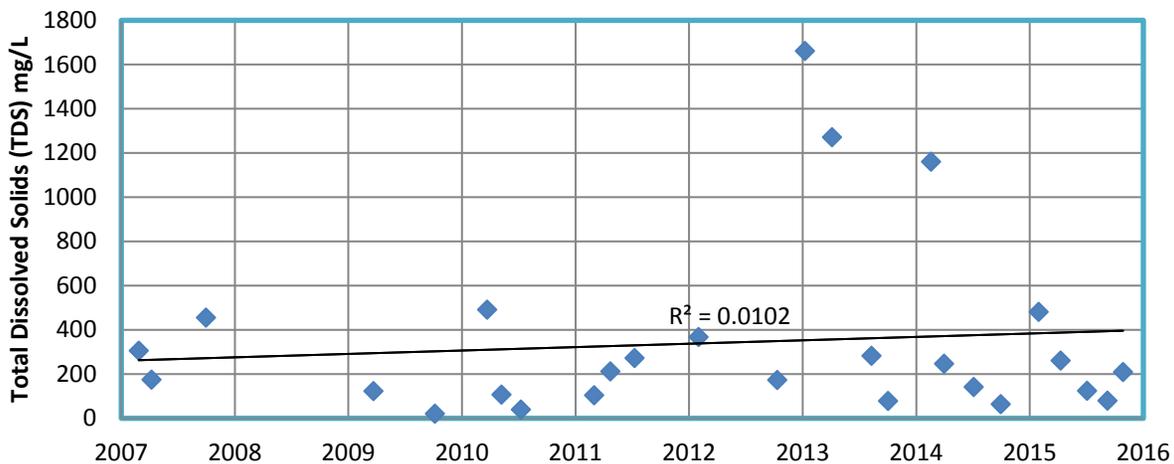
Hardness as CaCo₃ vs. Time - R-2



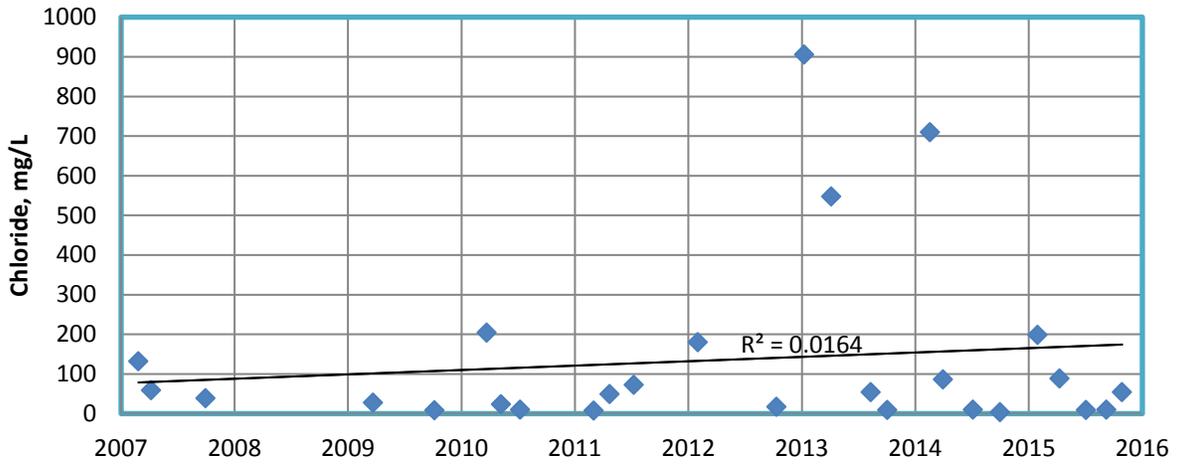
Oil and Grease vs. Time - R-2



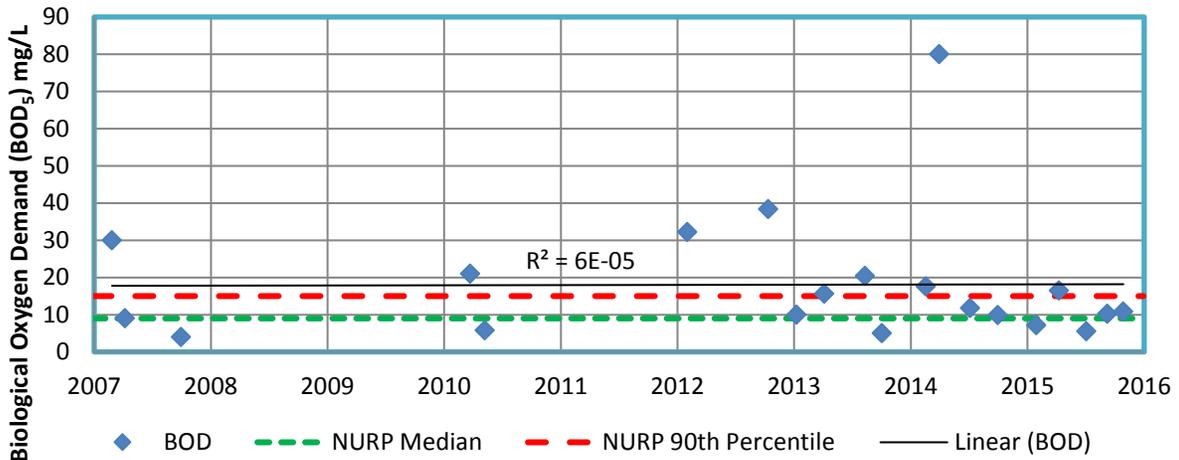
Total Dissolved Solids (TDS) vs. Time - R-2



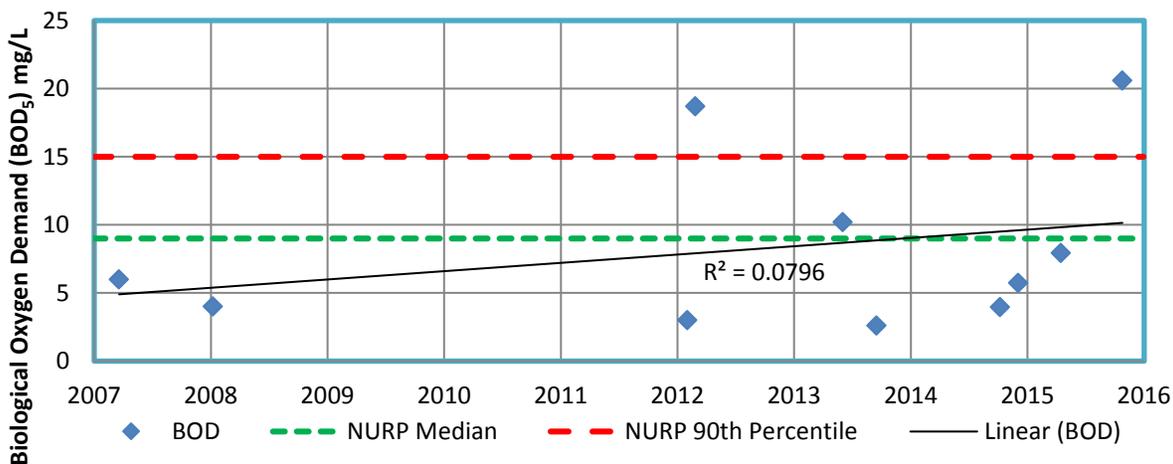
Chloride vs. Time - R-2



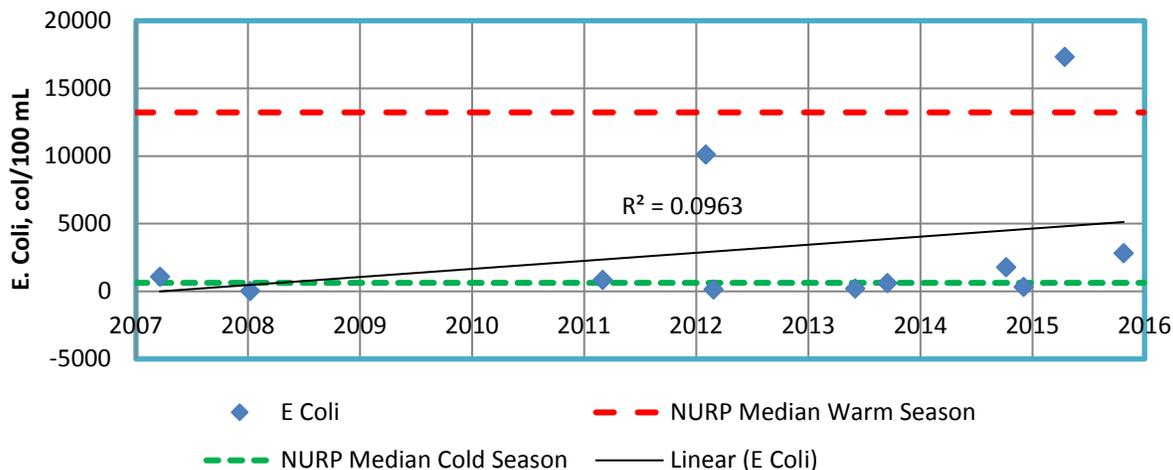
BOD₅ vs. Time - R-2



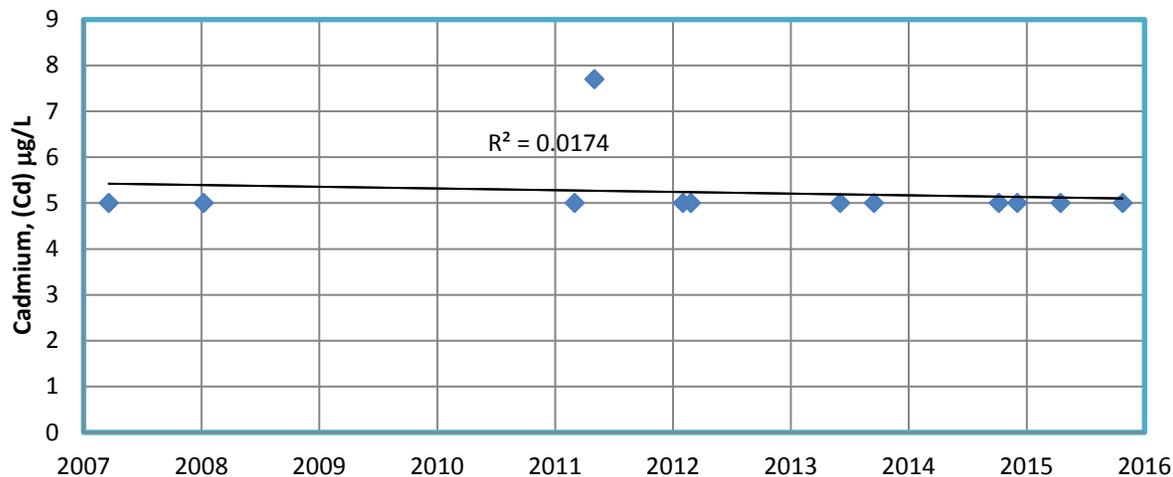
BOD₅ vs. Time - R-2 Up



E. Coli vs. Time - R-2 Up

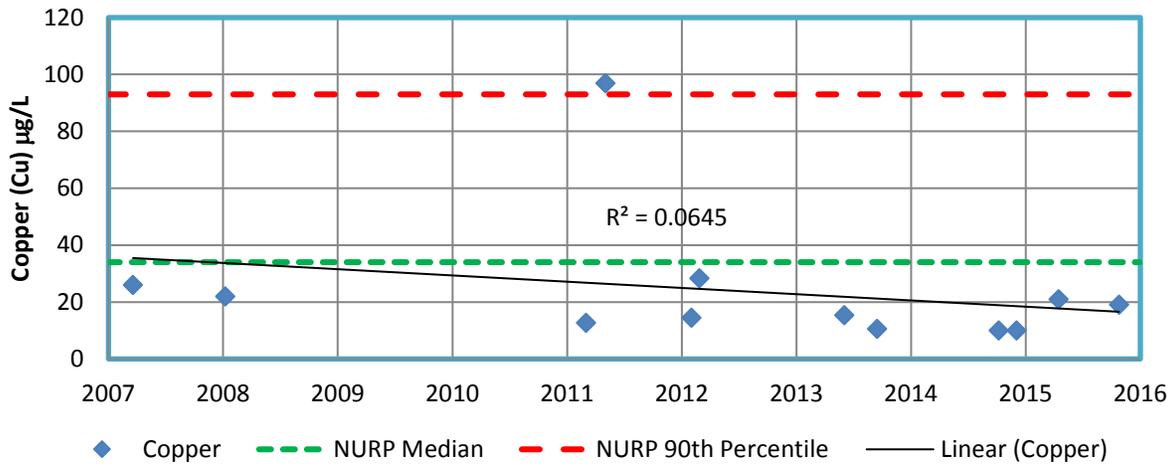


Cadmium vs. Time - R-2 Up

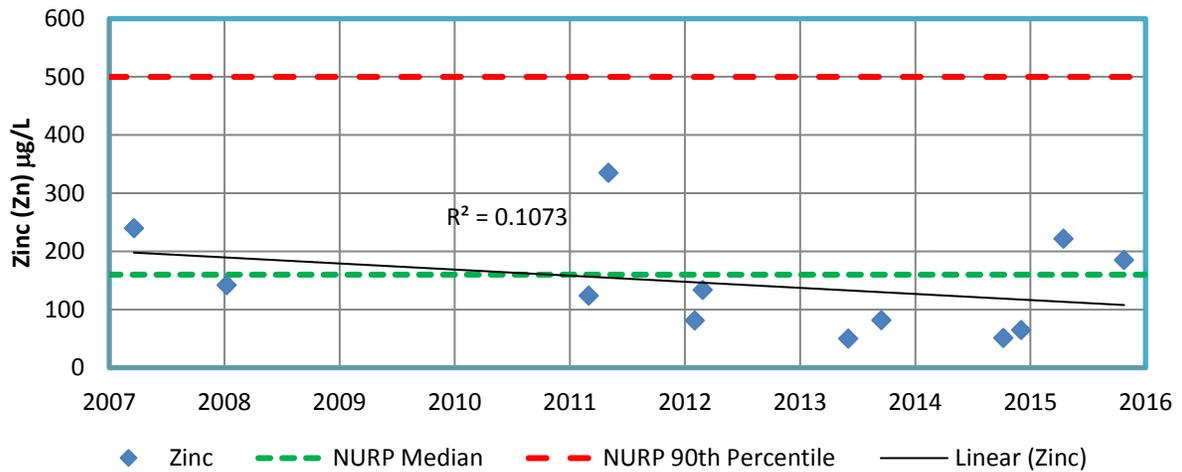


Wet Weather Monitoring Analysis

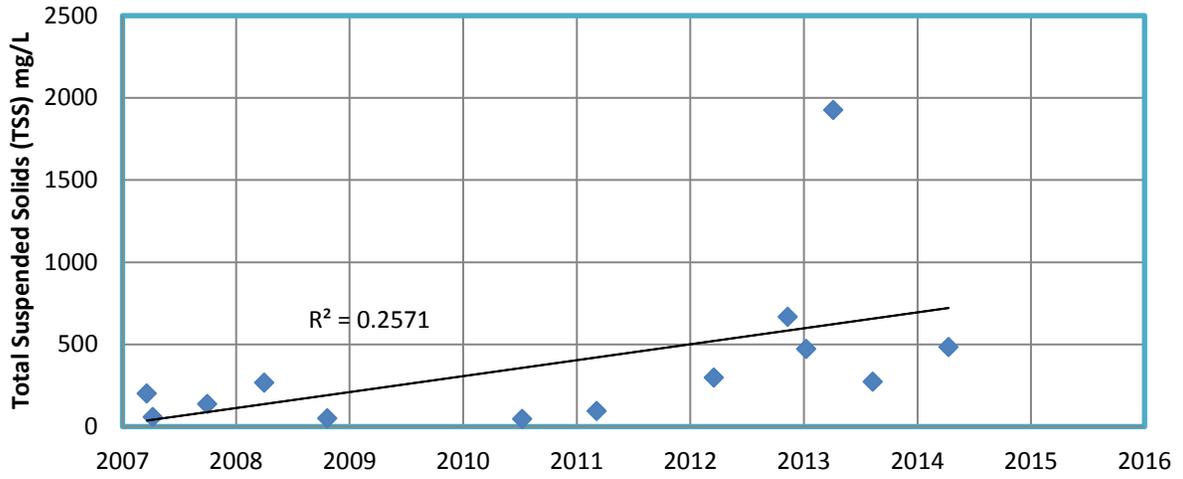
Copper vs. Time - R-2 Up



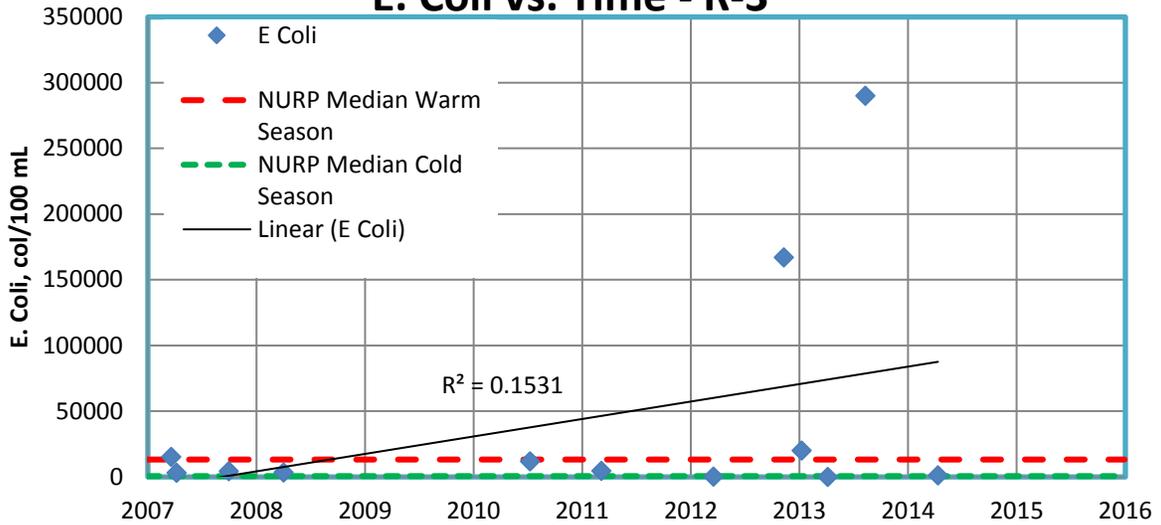
Zinc vs. Time - R-2 Up



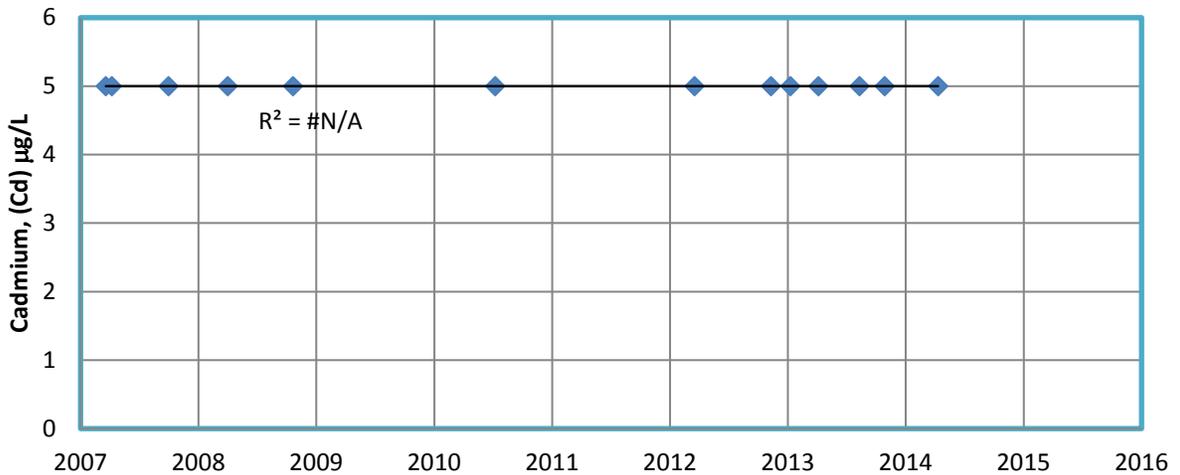
Total Suspended Solids (TSS) vs Time - R-3



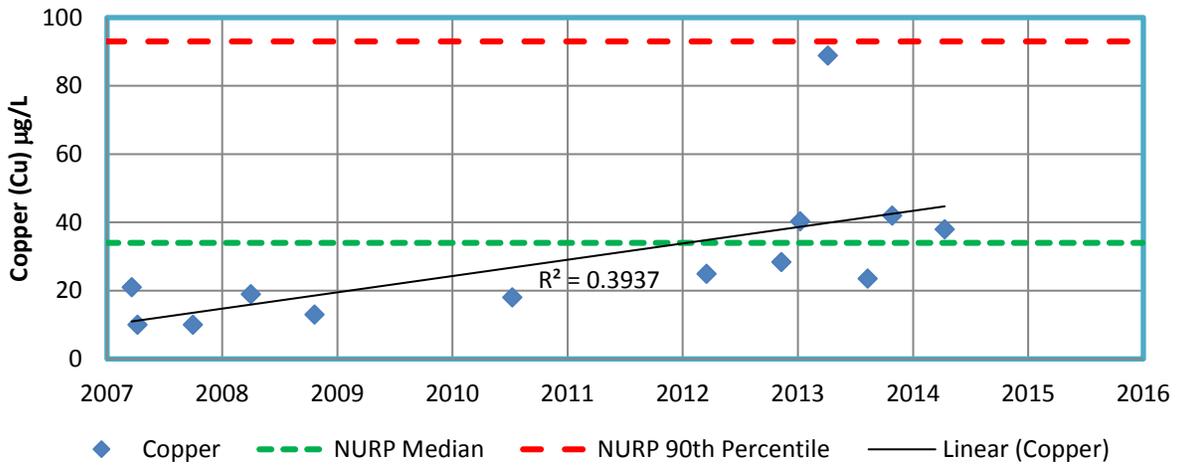
E. Coli vs. Time - R-3



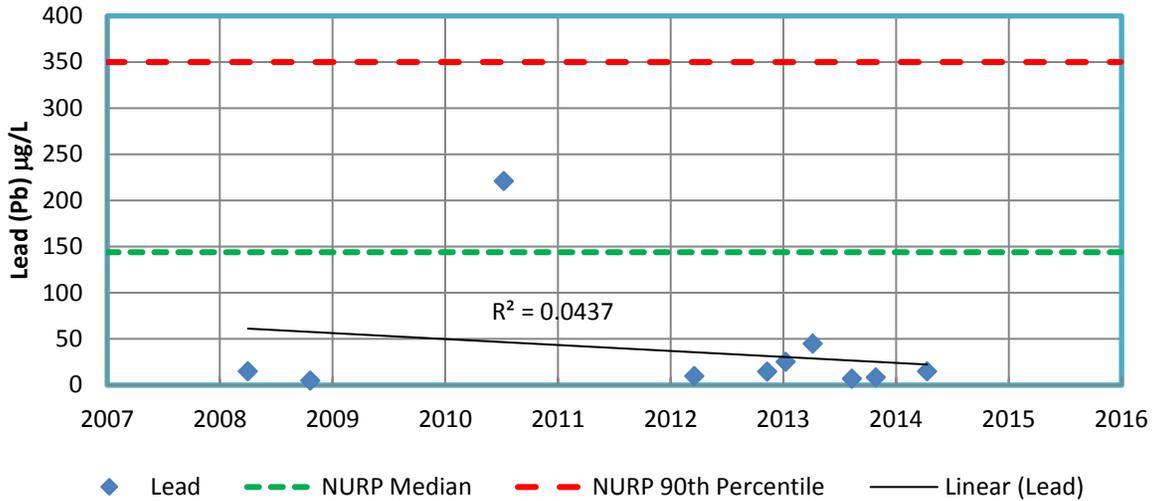
Cadmium vs. Time - R-3



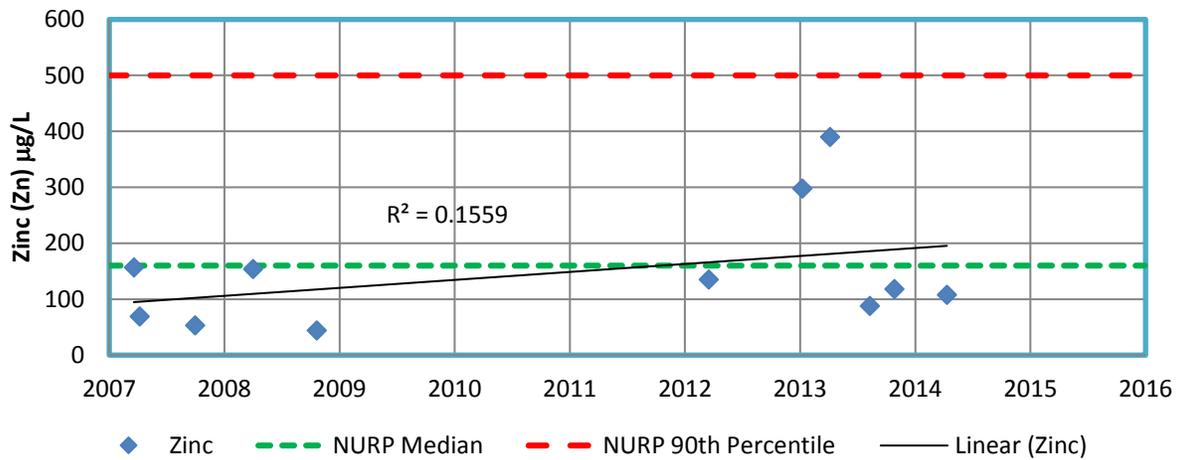
Copper vs. Time - R-3



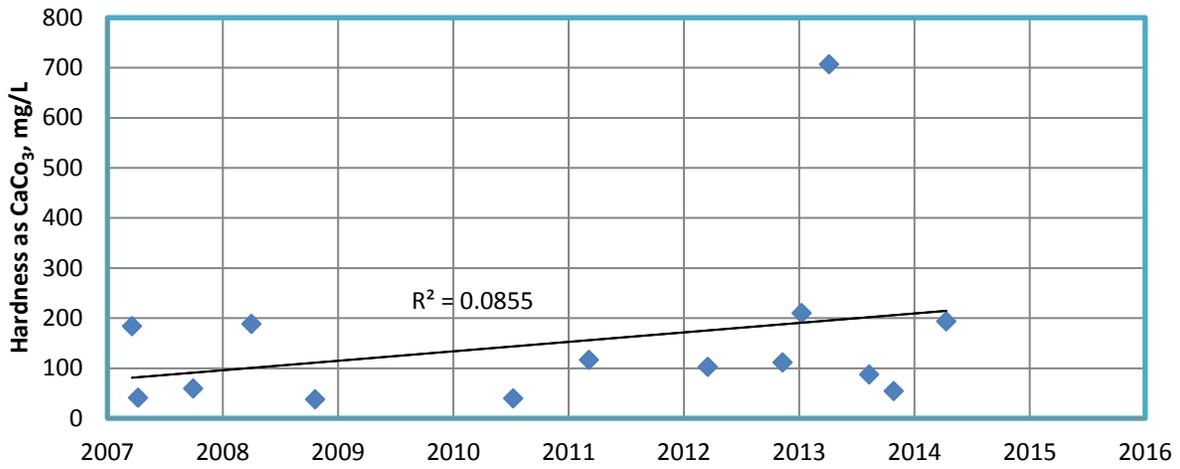
Lead vs. Time - R3



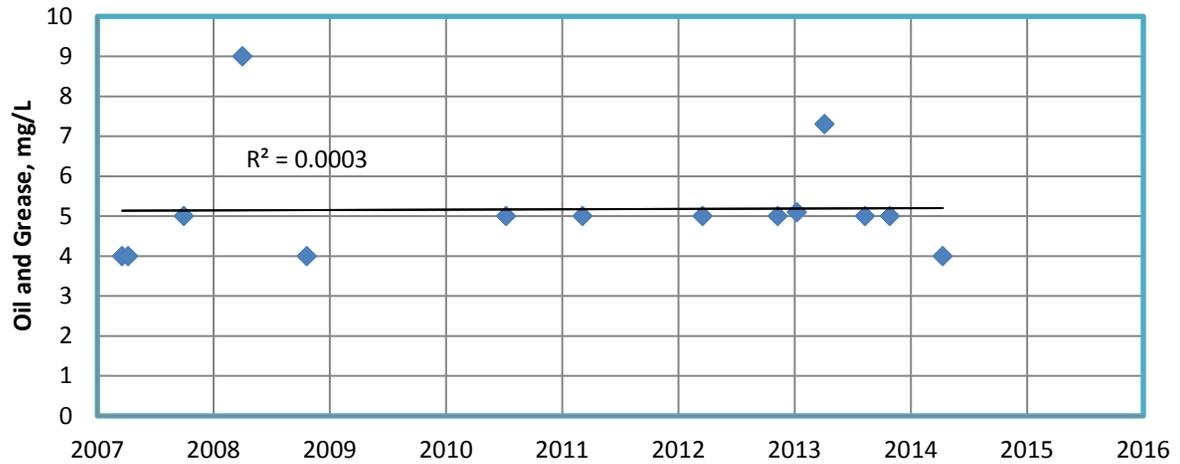
Zinc vs. Time - R-3



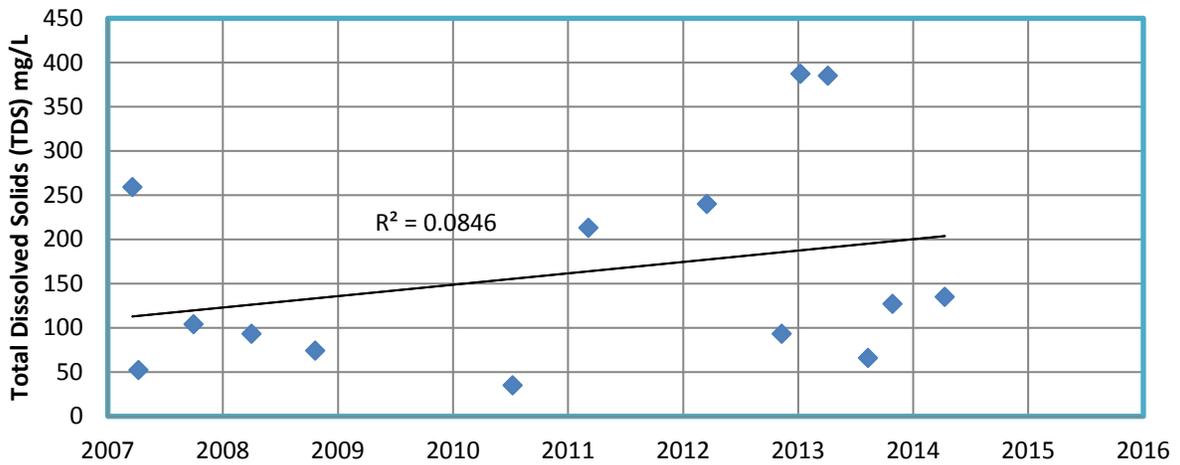
Hardness as CaCO₃ vs. Time - R-3



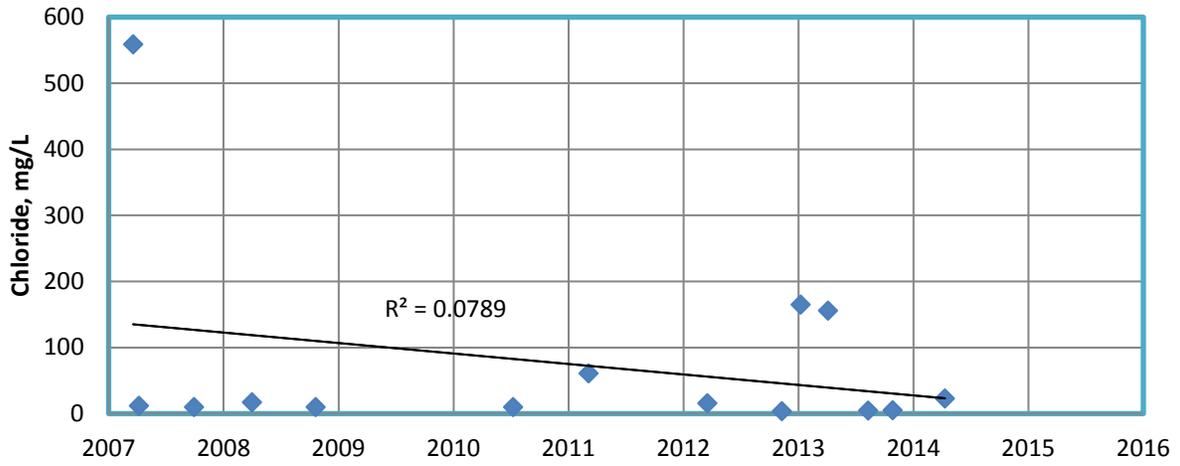
Oil and Grease vs. Time - R-3



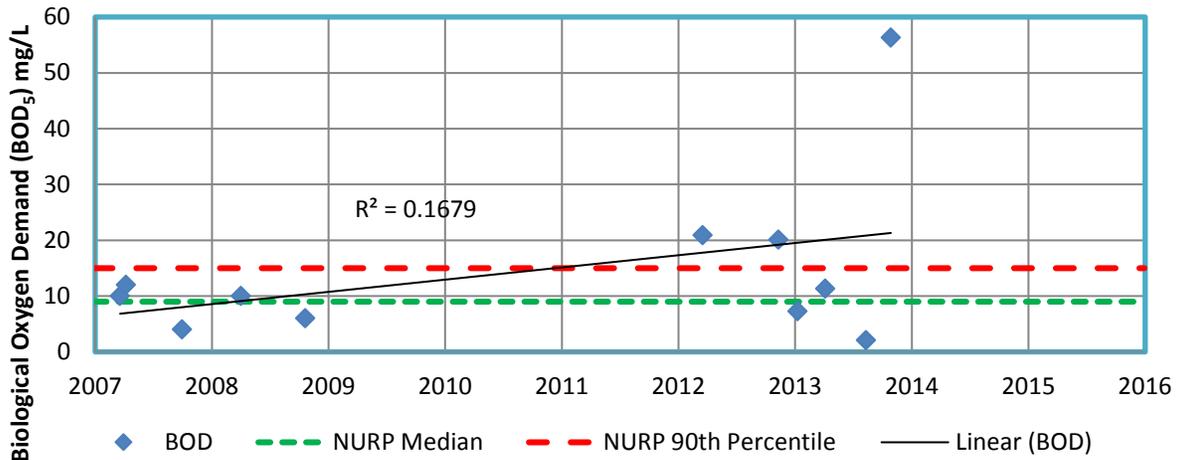
Total Dissolved Solids (TDS) vs. Time - R-3



Chloride vs. Time - R-3

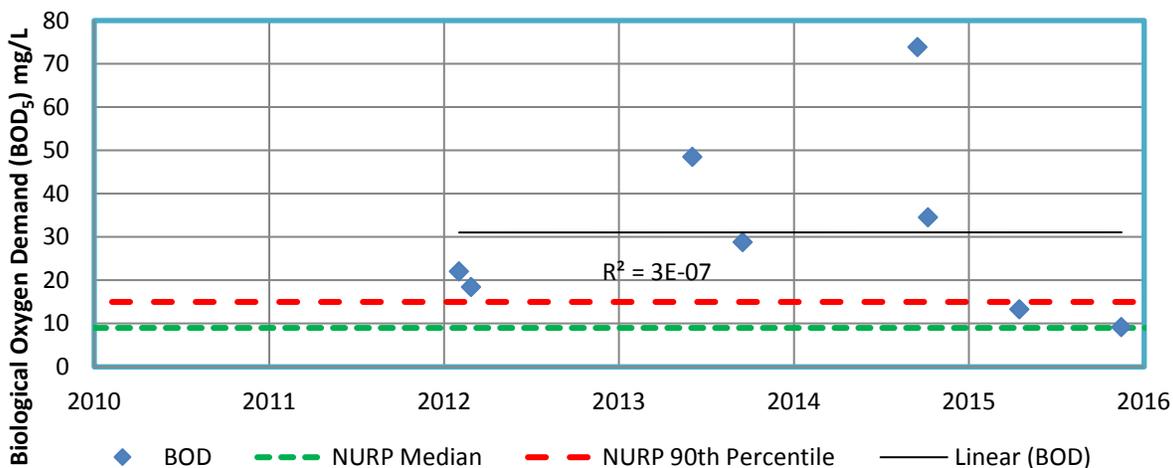


BOD₅ vs. Time - R-3

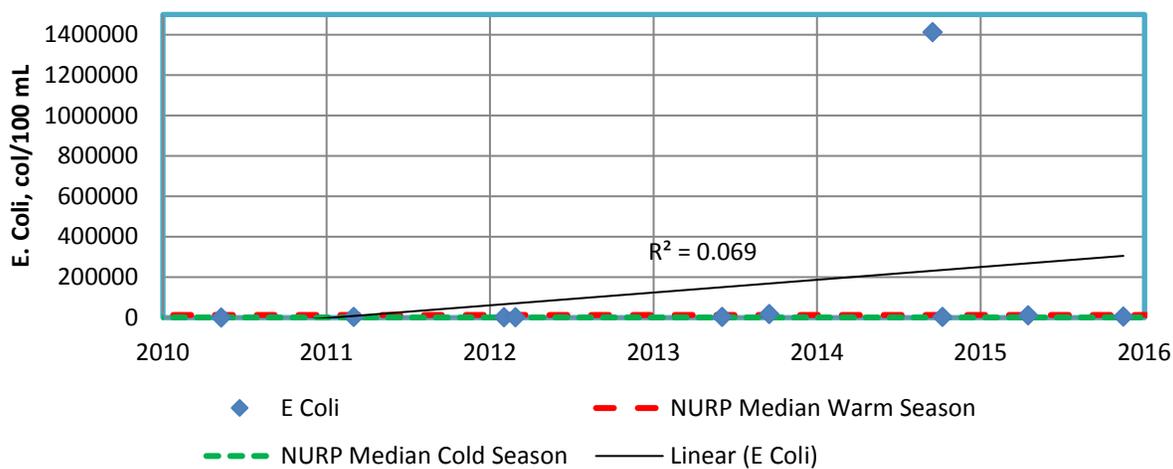


◆ BOD - - - NURP Median - - - NURP 90th Percentile — Linear (BOD)

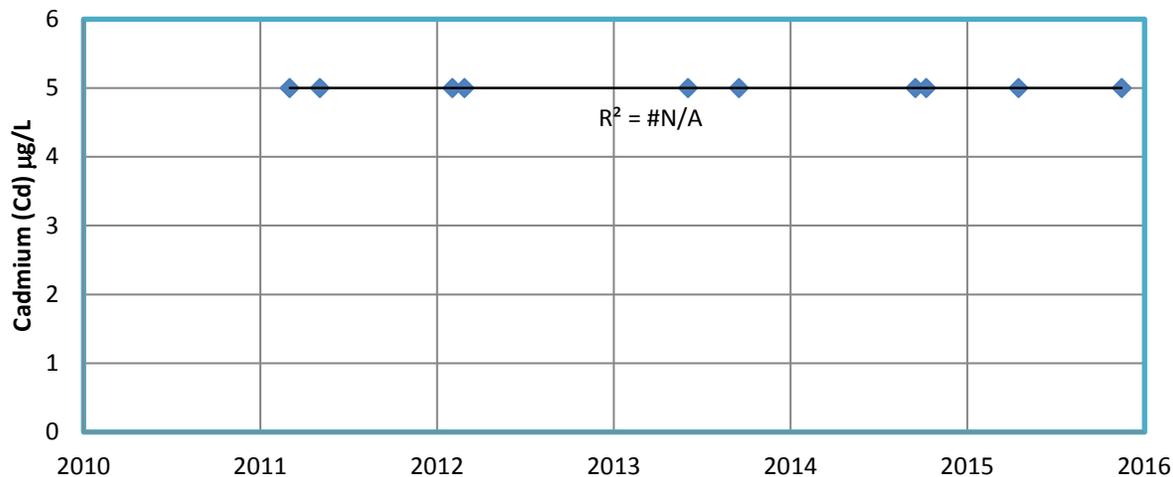
BOD₅ vs. Time - R-3 Up



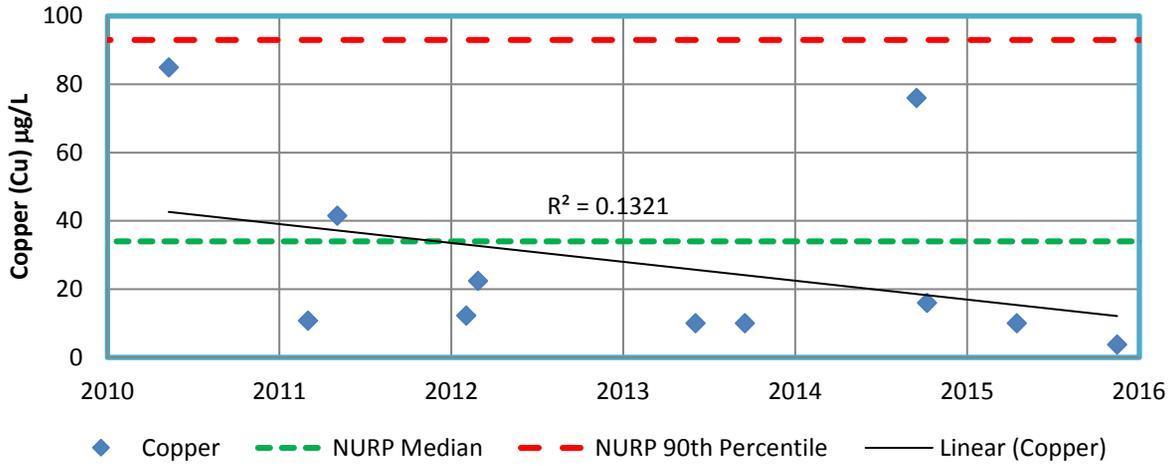
E. Coli vs. Time - R-3 Up



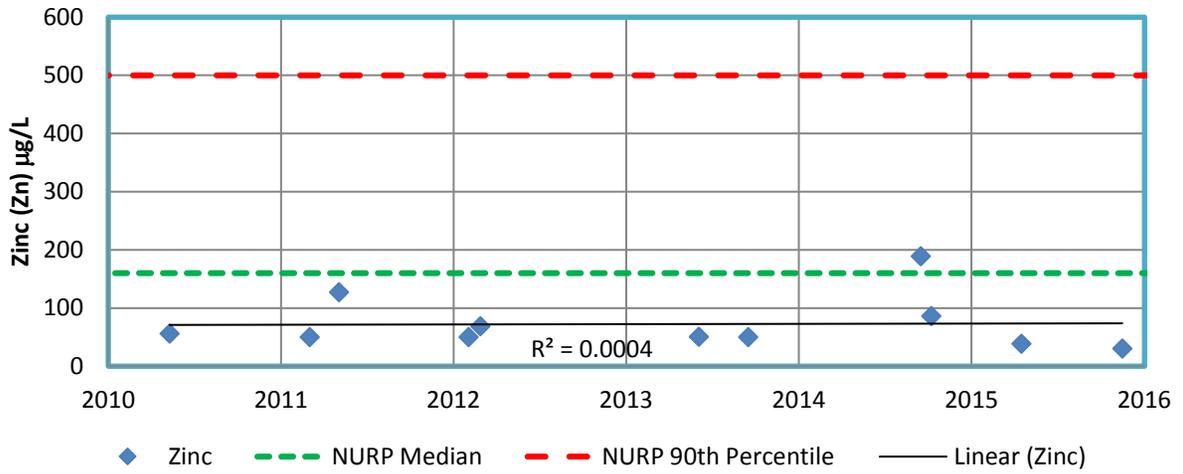
Cadmium vs. Time - R-3 Up



Copper vs. Time - R-3 Up

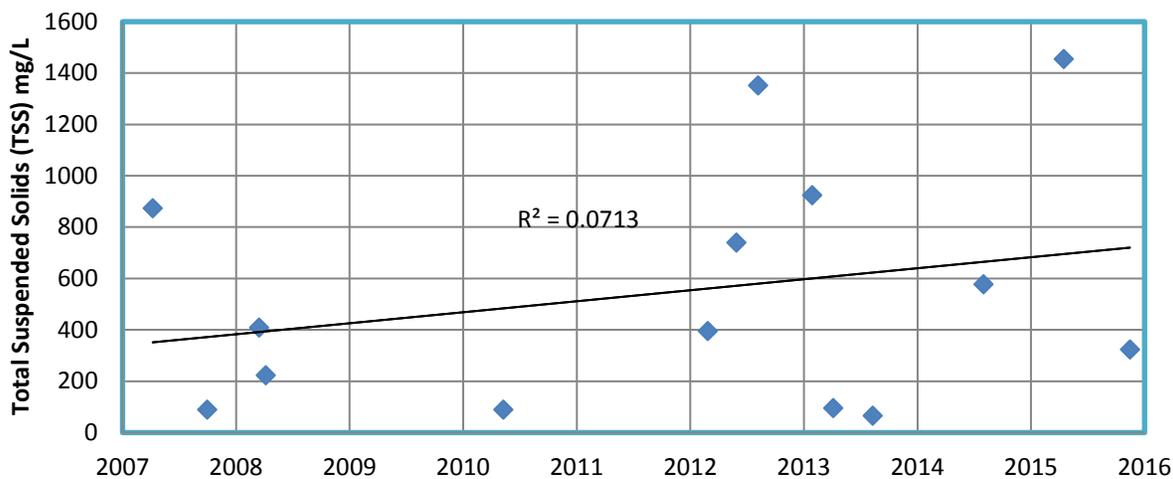


Zinc vs. Time - R-3 Up

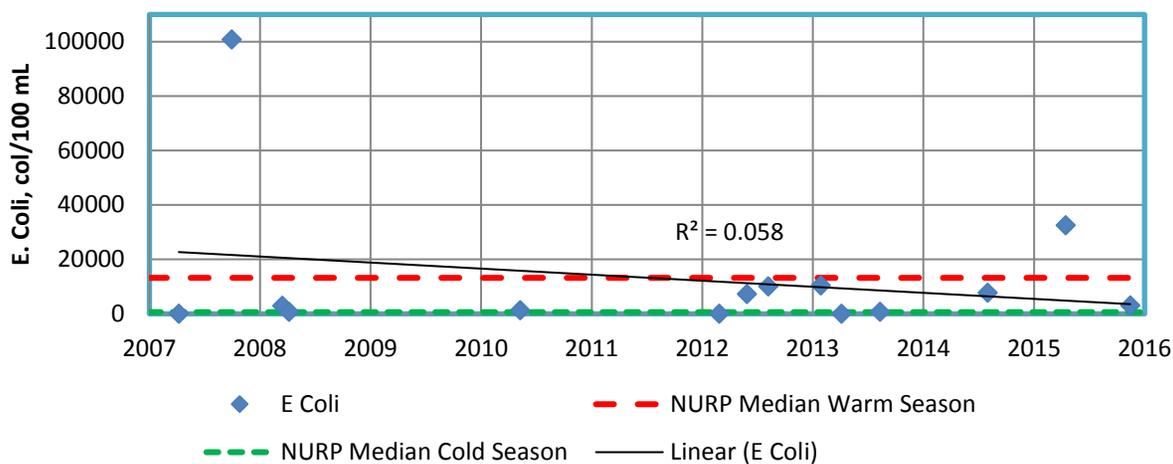


Wet Weather Monitoring Analysis

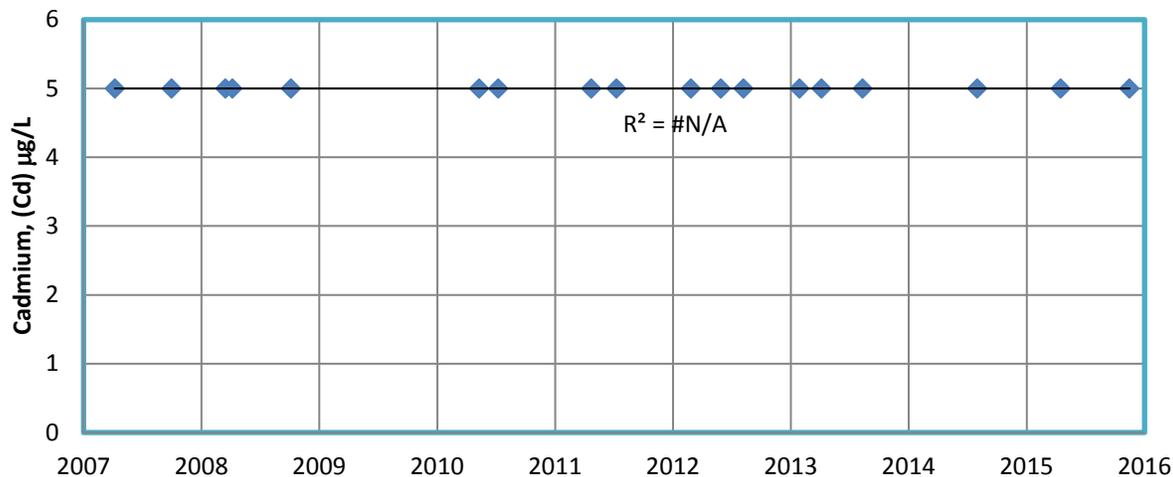
Total Suspended Solids (TSS) vs Time - R-4



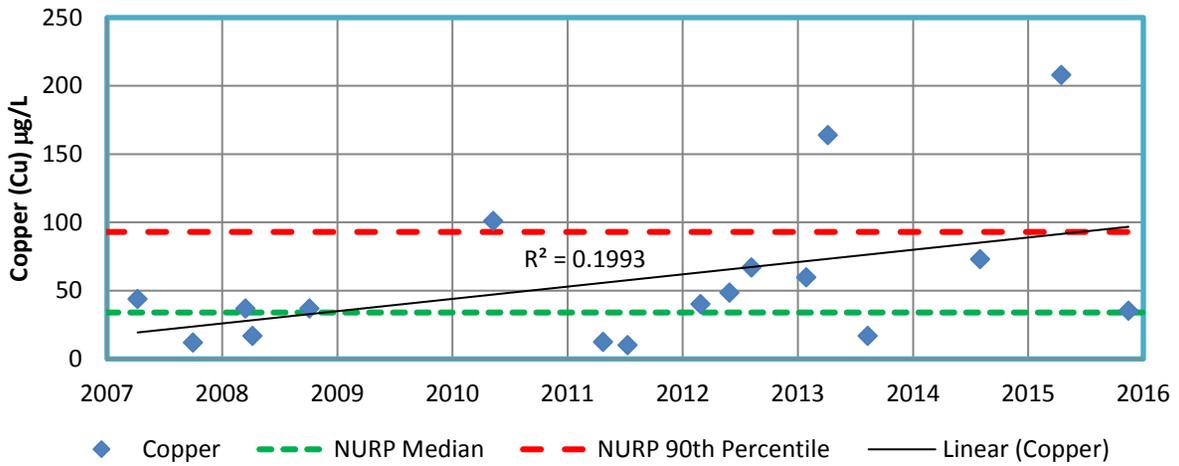
E. Coli vs. Time - R-4



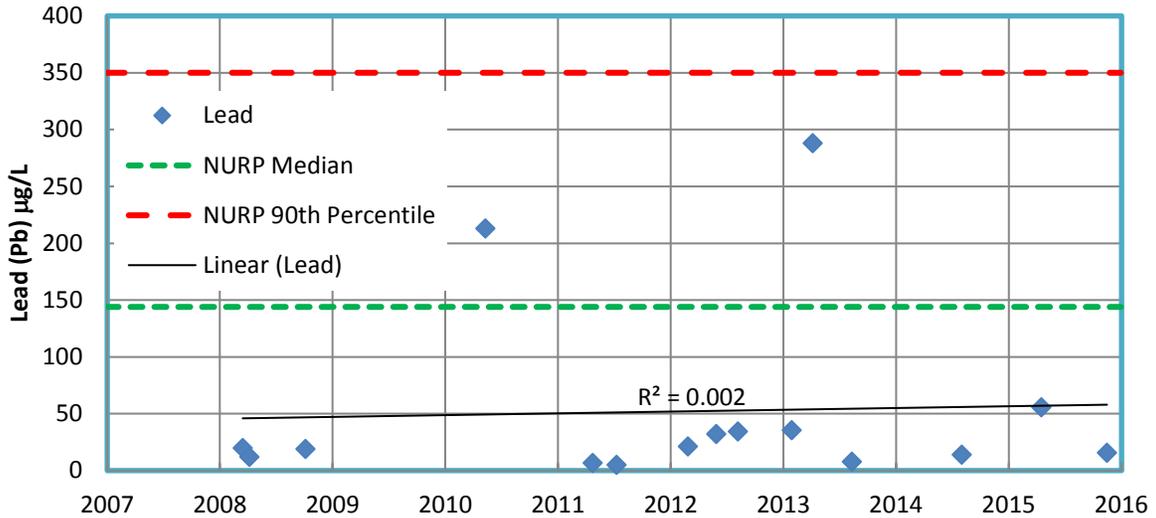
Cadmium vs. Time - R-4



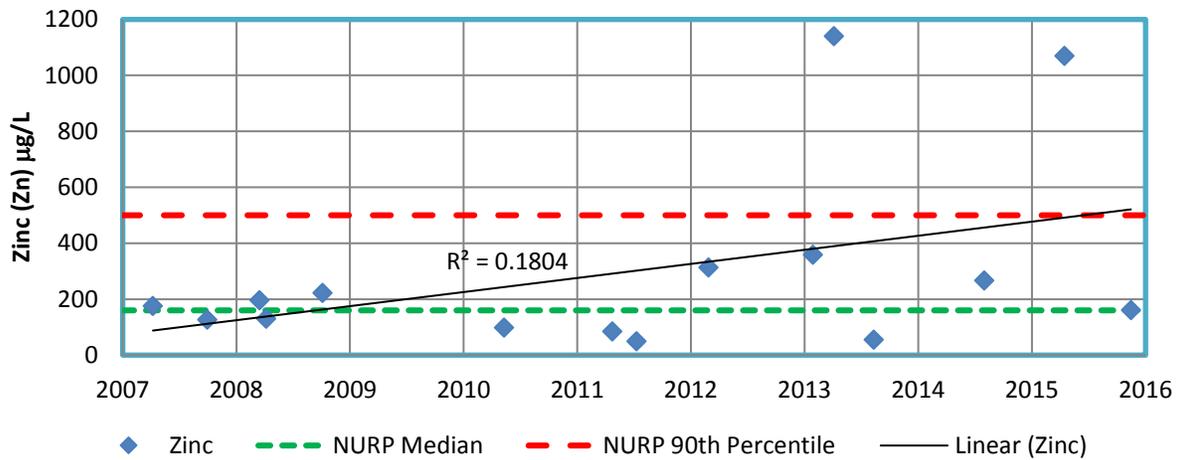
Copper vs. Time - R-4



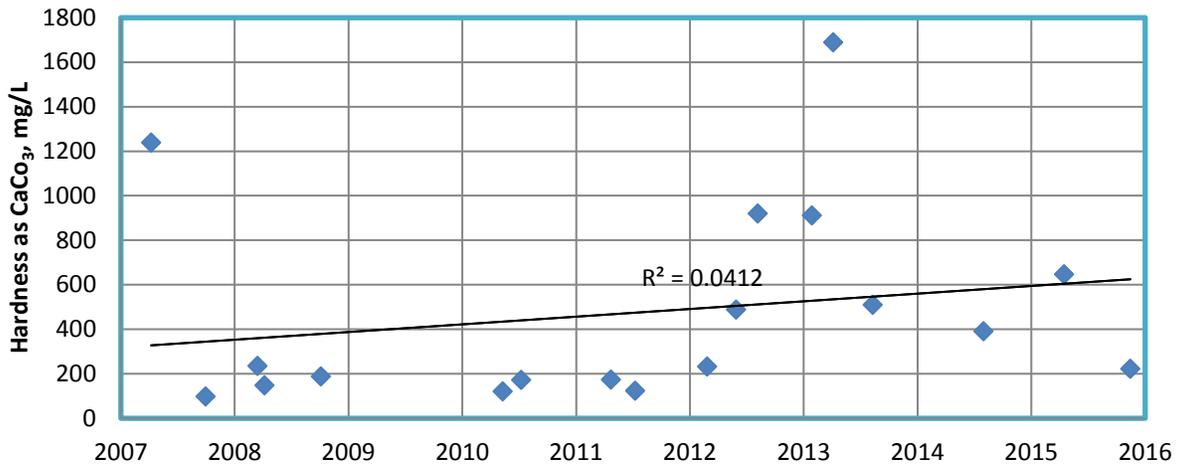
Lead vs. Time - R-4



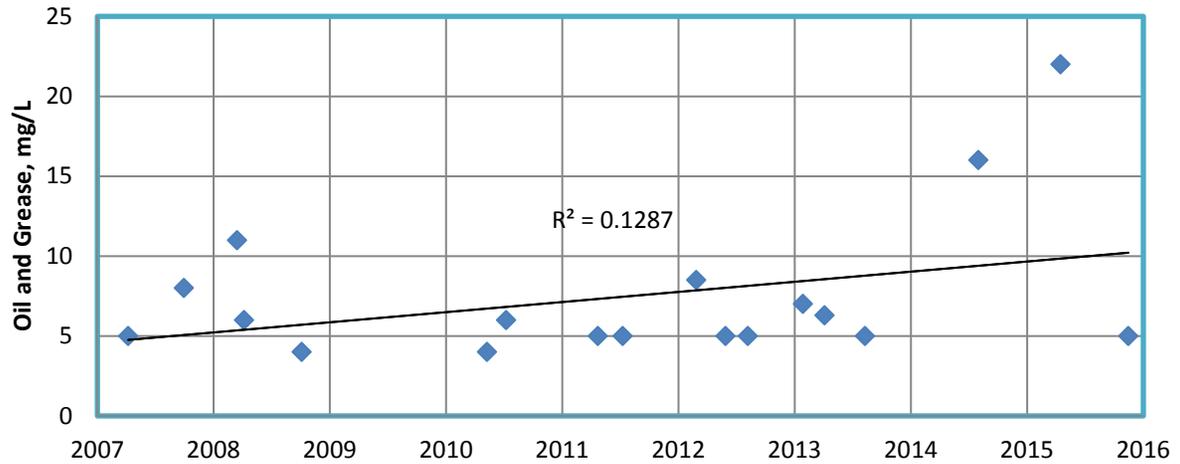
Zinc vs. Time - R-4



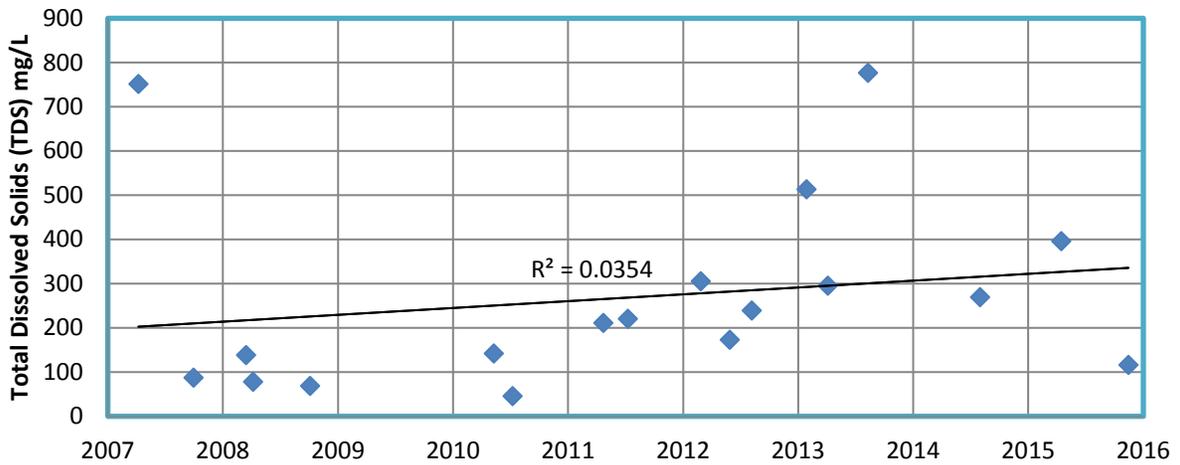
Hardness as CaCo₃ vs. Time - R-4



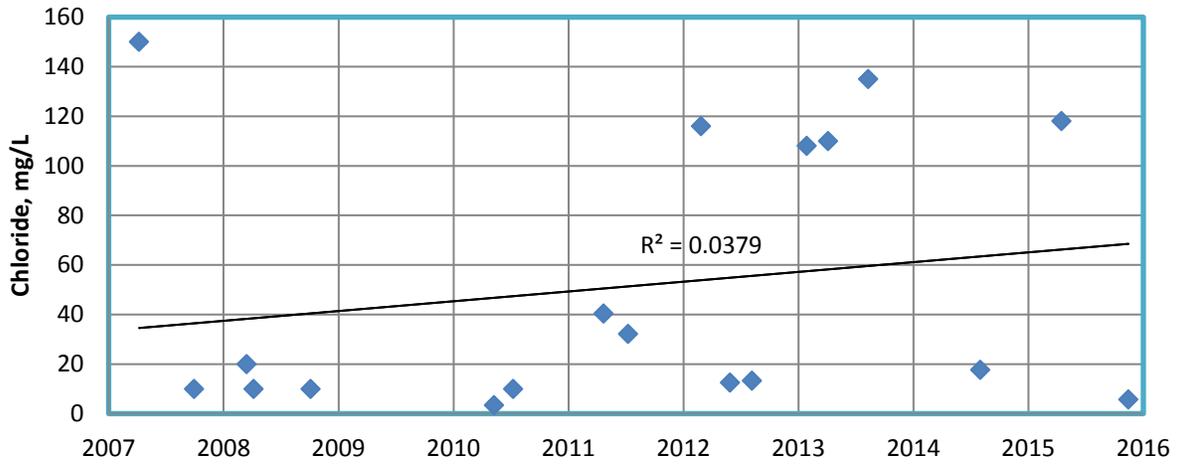
Oil and Grease vs. Time - R-4



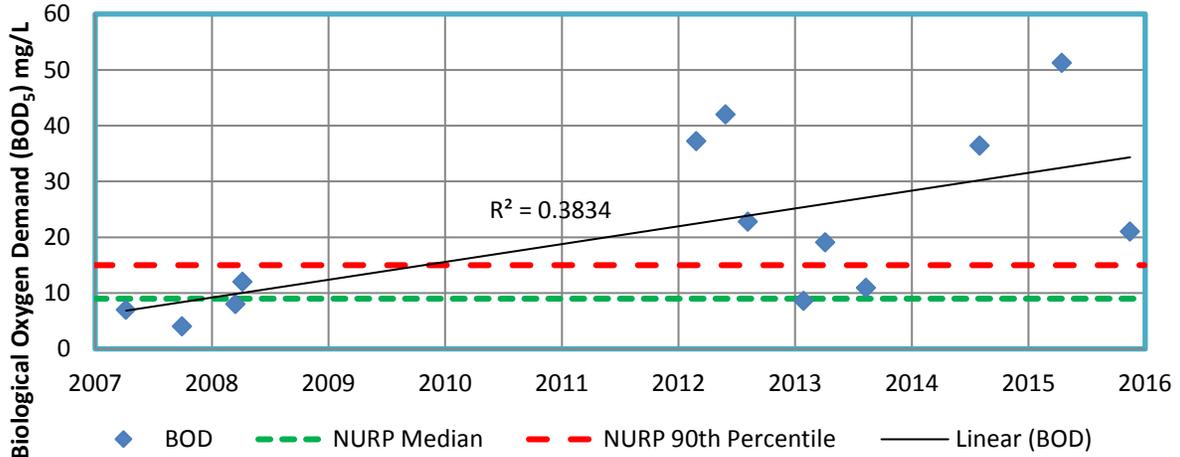
Total Dissolved Solids (TDS) vs. Time - R-4



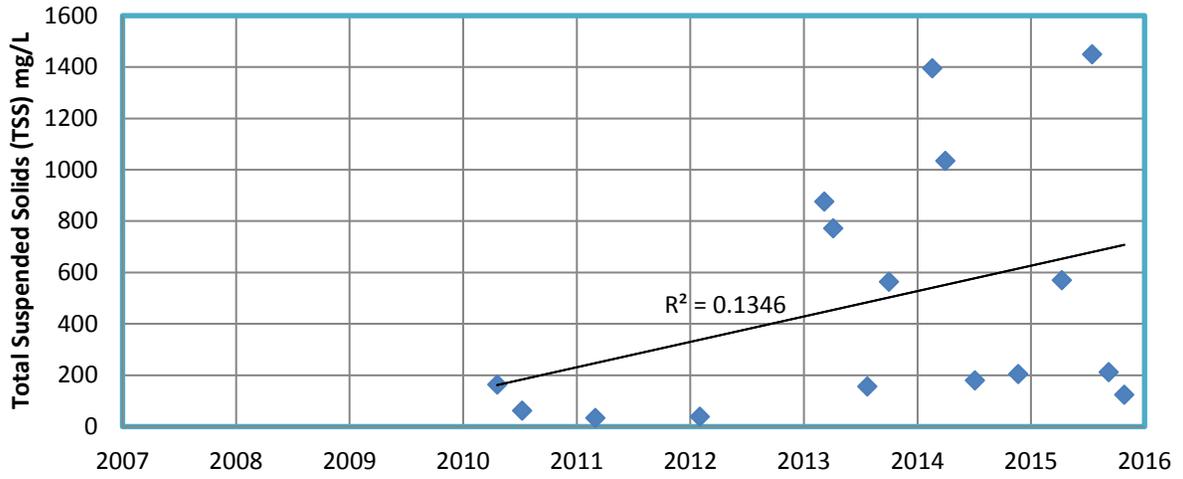
Chloride vs. Time - R-4



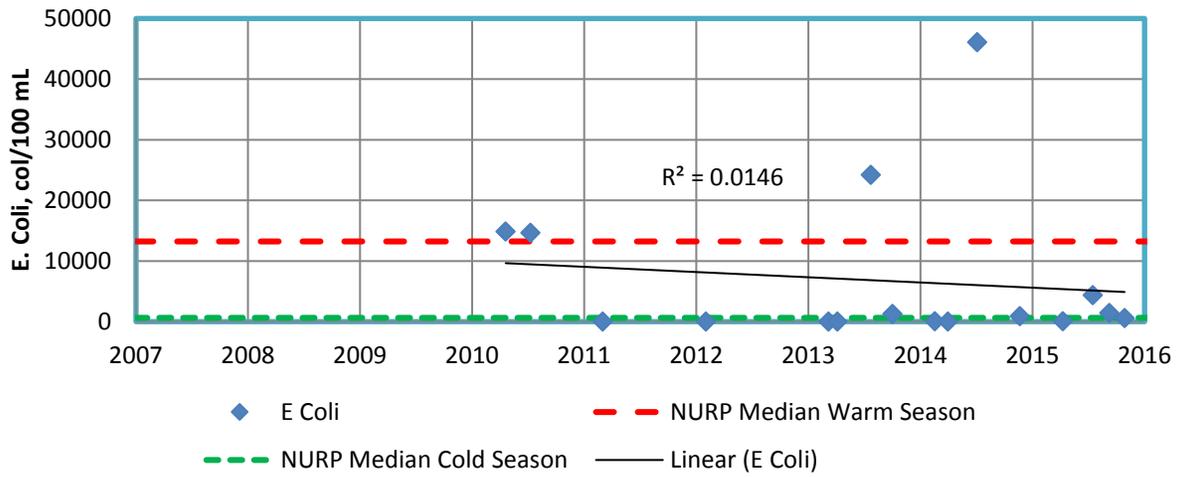
BOD₅ vs. Time - R-4



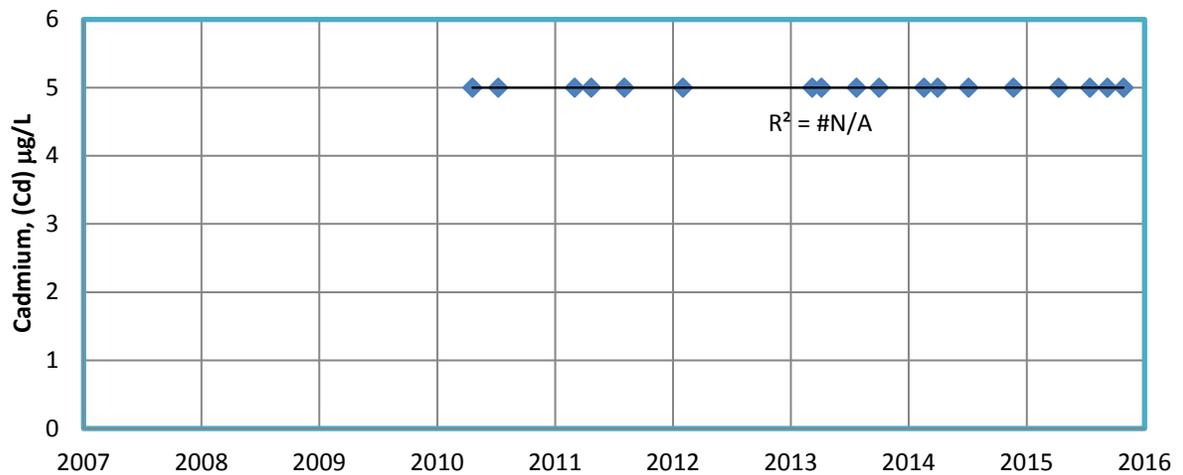
Total Suspended Solids (TSS) vs Time - R-5



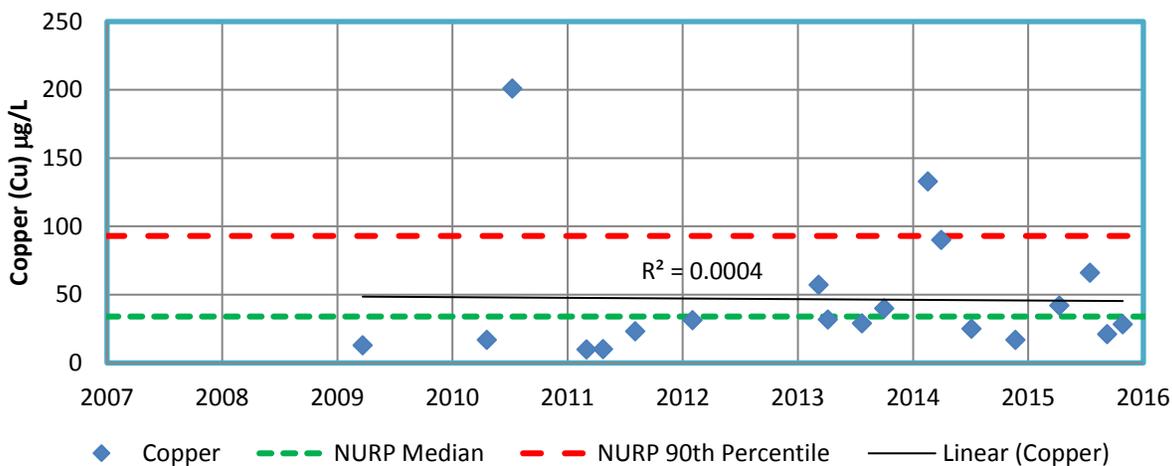
E. Coli vs. Time - R-5



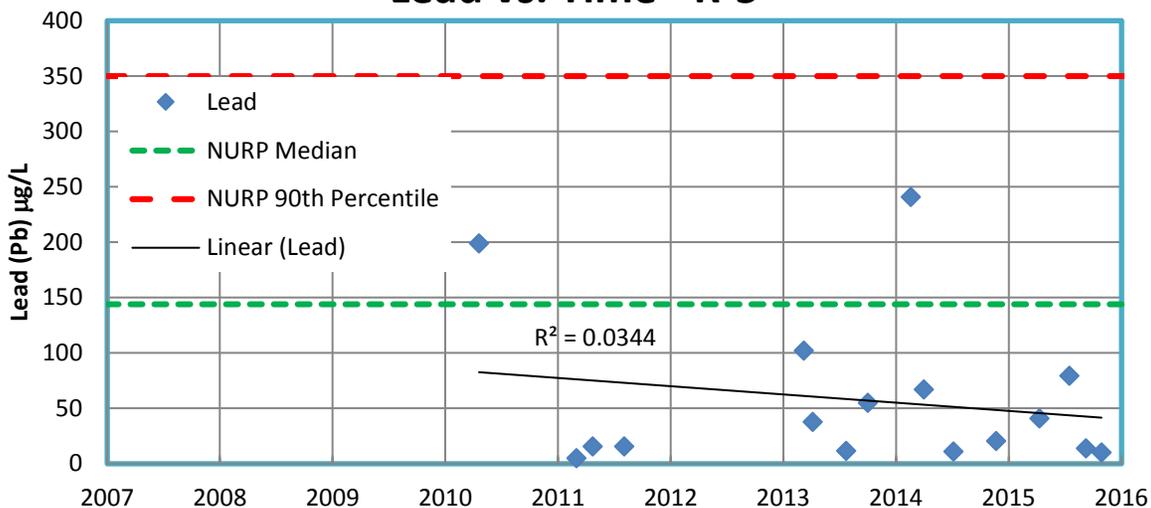
Cadmium vs. Time - R-5



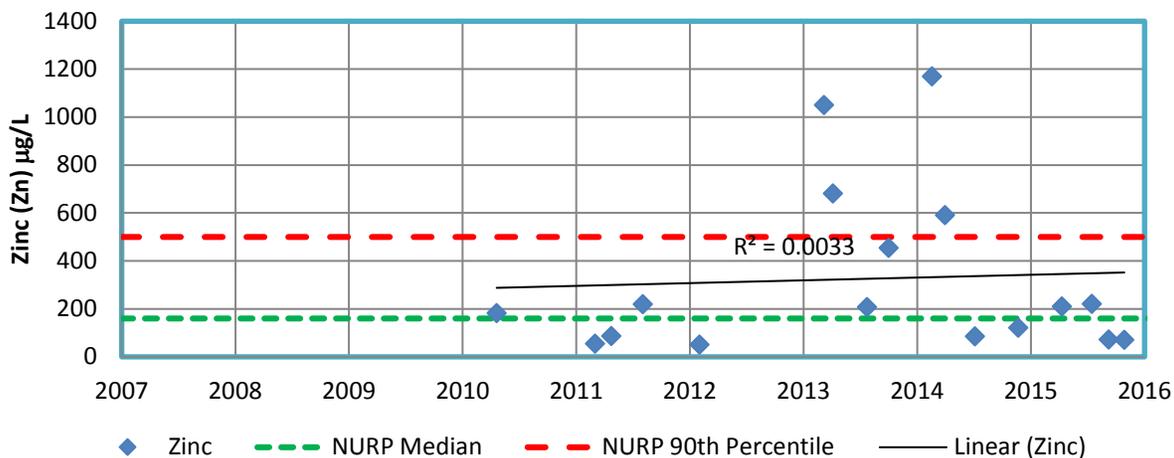
Copper vs. Time - R-5



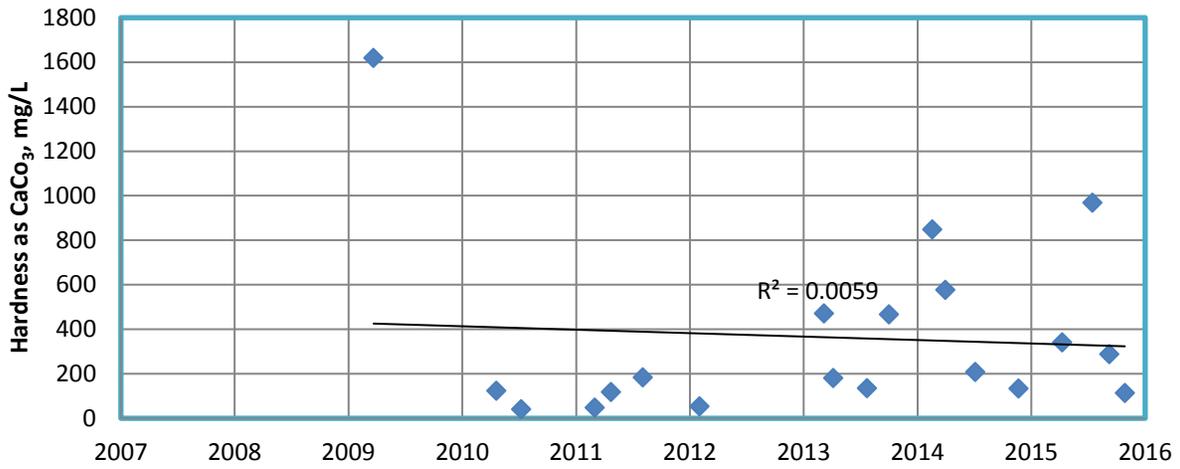
Lead vs. Time - R-5



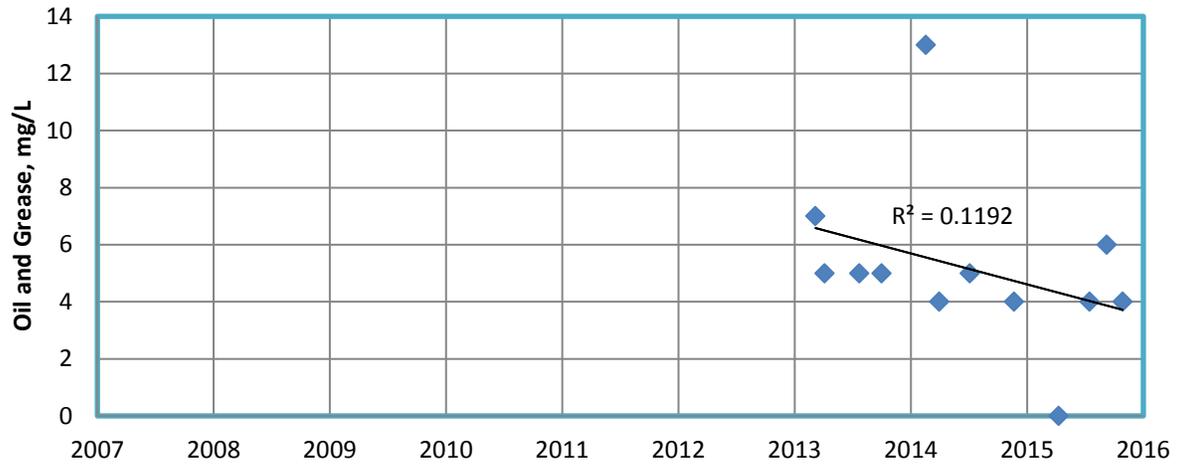
Zinc vs. Time - R-5



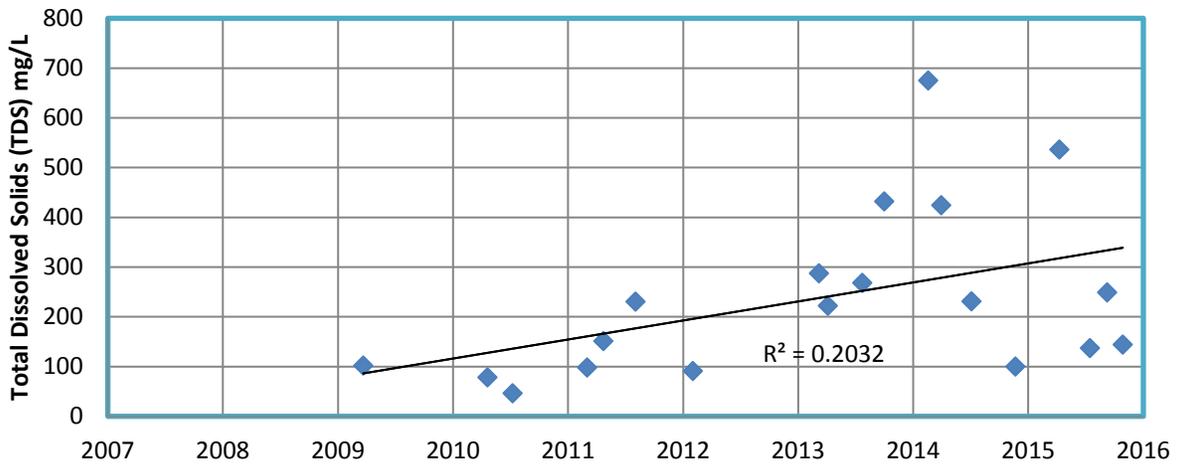
Hardness as CaCO₃ vs. Time - R-5



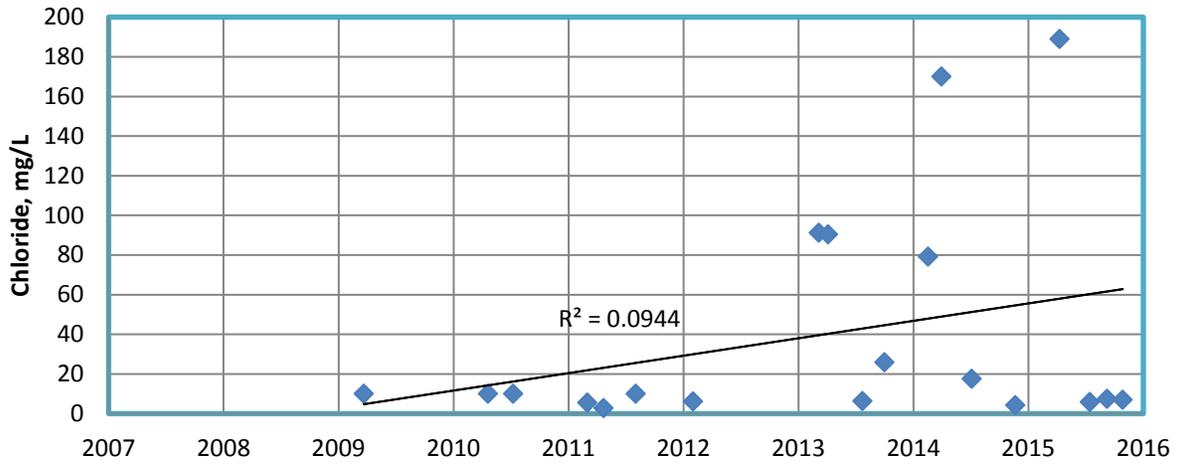
Oil and Grease vs. Time - R-5



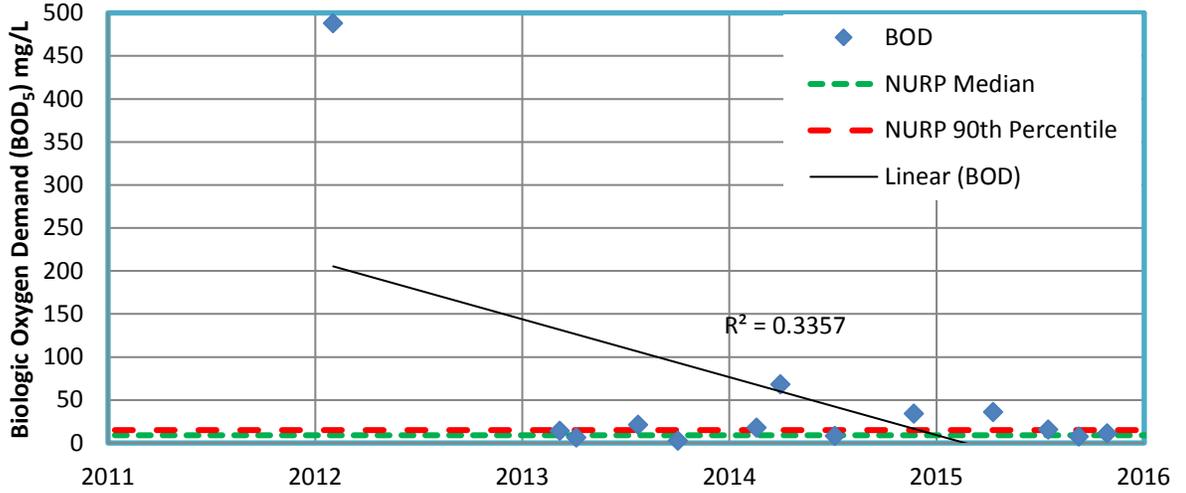
Total Dissolved Solids (TDS) vs. Time - R-5



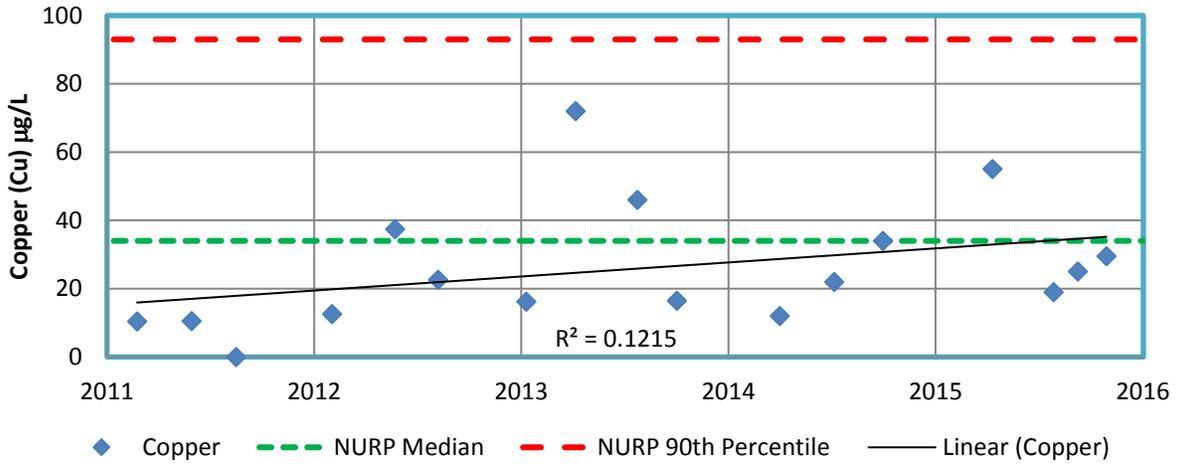
Chloride vs. Time - R-5



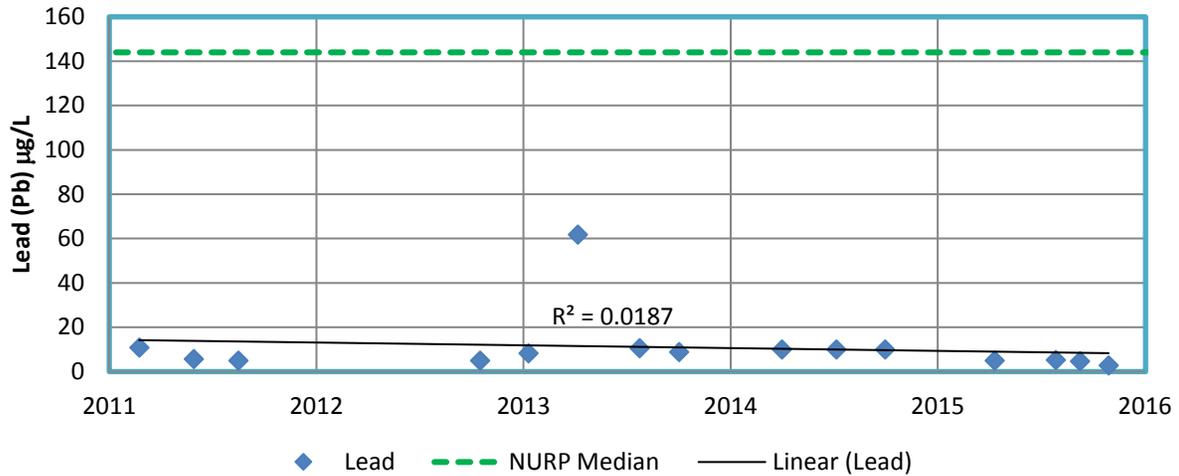
BOD₅ vs. Time - R-5



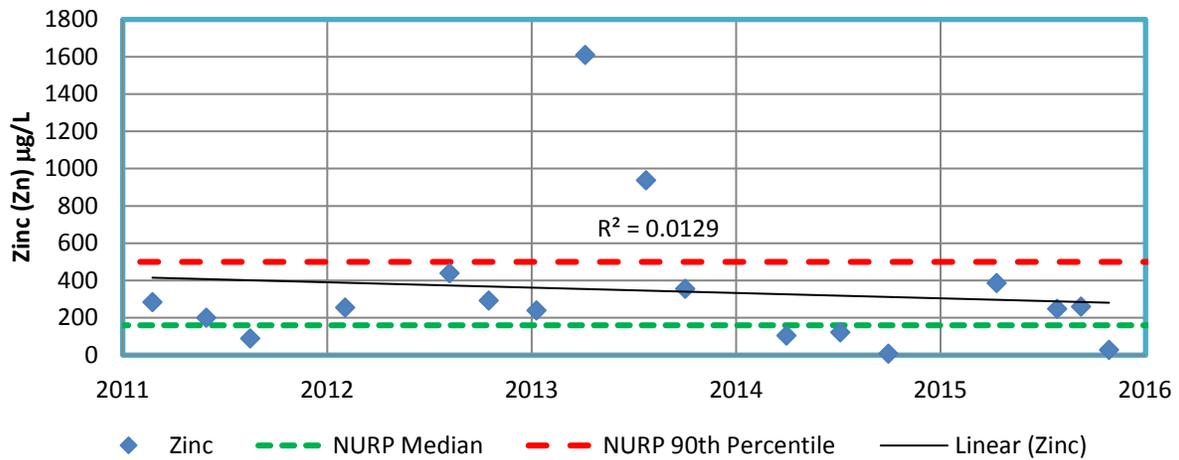
Copper vs. Time - R-7



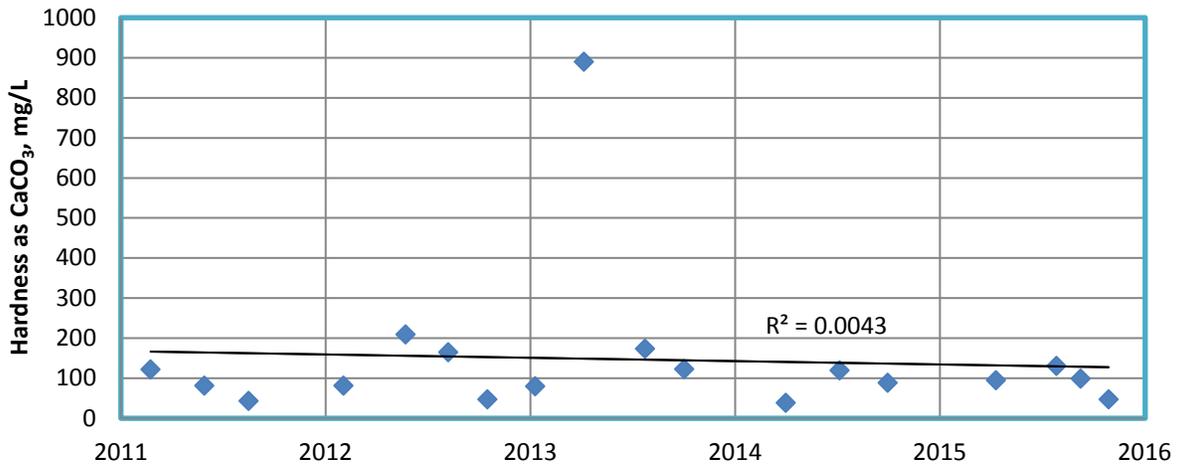
Lead vs. Time - R-7



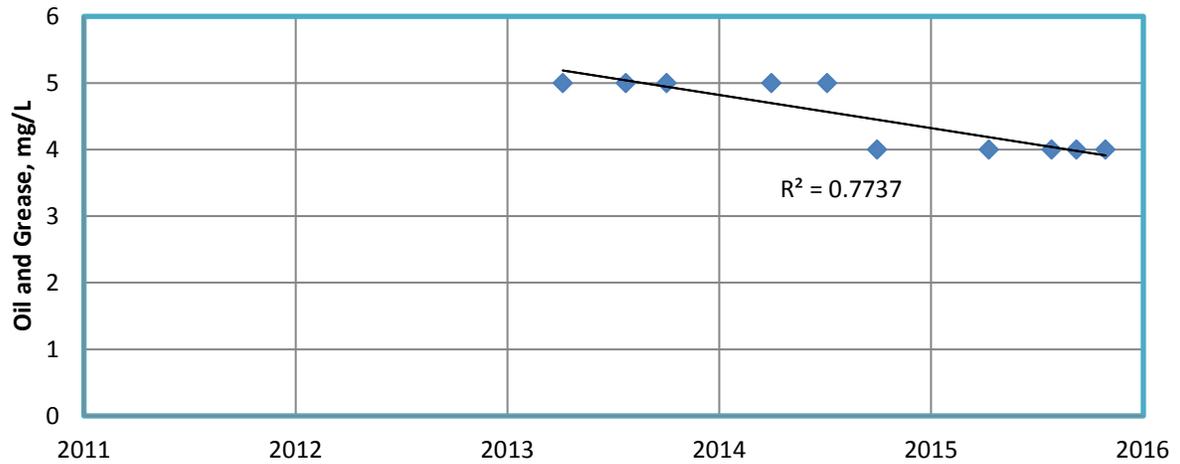
Zinc vs. Time - R-7



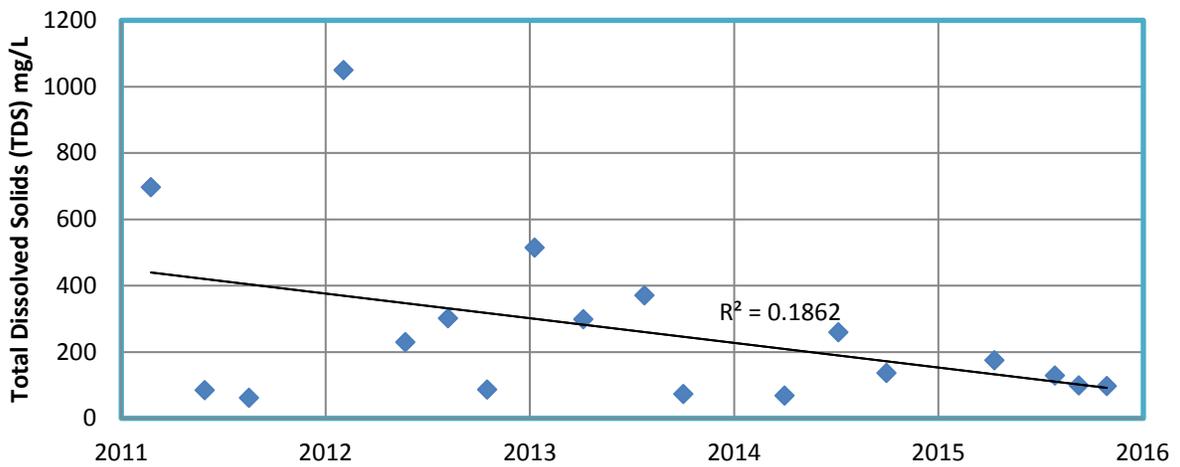
Hardness as CaCO₃ vs. Time - R-7



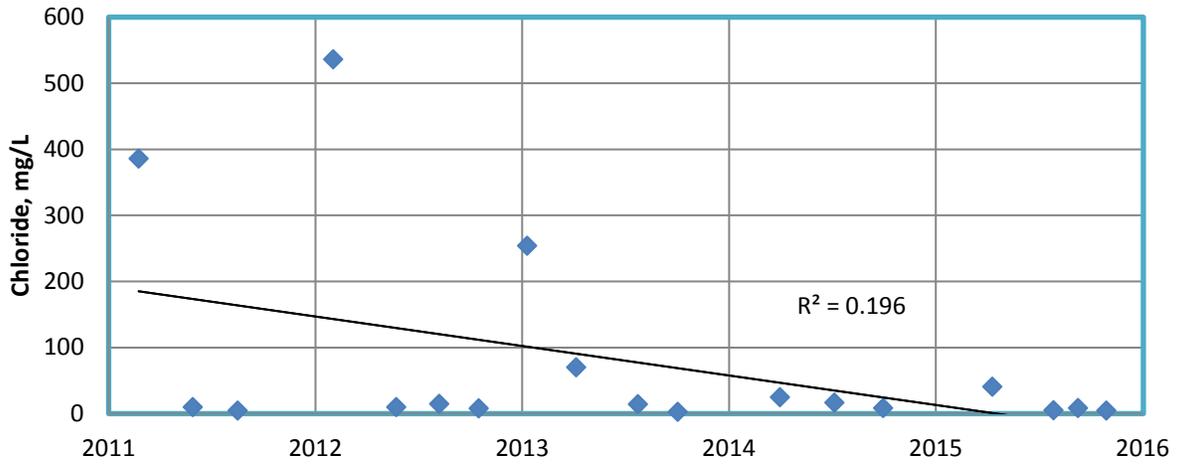
Oil and Grease vs. Time - R-7



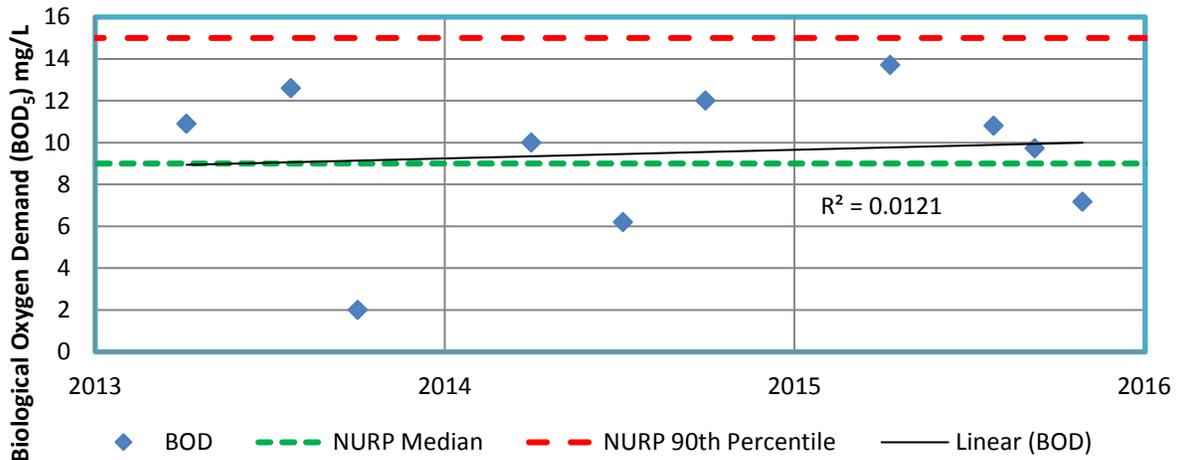
Total Dissolved Solids (TDS) vs. Time - R-7



Chloride vs. Time - R-7



BOD₅ vs. Time - R-7



APPENDIX B.18 MS4 Program Management

B.18 MS-4 PROGRAM MANAGEMENT- FINANCIALS

The major MS-4 related operational and maintenance expenditures and budget for 2015 and 2016 are as listed below

Program	2015	2016
SMP Implementation	\$171,000	\$138,000
Public Outreach	\$ 82,000	\$122,000
IDDE	\$ 31,000	\$ 25,000
Construction	\$ 4,000	\$ 4,000
Post Construction	\$ 23,300	\$ 19,000
Pollution Prevention	\$ 51,600	\$ 19,000
Industrial Activities	\$ 31,100	\$ 25,000
TMDL's	\$ 15,600	\$ 15,600
Wet Weather Monitoring	\$ 15,600	\$ 15,600
IOCP		\$ 13,880
Total	\$425,000	\$390,880

APPENDIX C – UPDATED STANDARD OPERATING PROCEDURES



ENGINEERING DIVISION STANDARD OPERATING PROCEDURE

Title: Stormwater Inlet Inspection and Cleaning

SOP Identification No: SWMP-10 BMP No: 6.G.1

Revision Date: Oct. 16, 2015 Approved Date: _____

Primary Department: Sewer Maintenance Section

PURPOSE:

To protect stormwater quality by removing floatables, sediment, metals, debris, and other pollutants from local roadways that collect in stormwater inlets. This reduces clogging in the storm drain system, as well as the transport of sediments and pollutants into receiving water bodies.

CONTACTS:

Collection Systems Manager	(913) 573-1365
Sewer Maintenance Dispatcher	(913) 573-1360
Environmental Compliance Superintendent	(913) 573-1313
Stormwater Coordinator	(913) 573-5710

PROCEDURES:

1. Inspect inlets in the combined sewer system and MS4 service area on a regular basis and after significant rainfall events as determined by the Stormwater Coordinator. The known problem areas are those which have recurring problems with sediment and trash debris, typically located in the sections of the Unified Government (UG) east of Interstate 635.
2. During dry-weather periods, assign Sewer Maintenance Crew to inspect the inlets shown on the UG's storm sewer quarter-section maps.
3. Inspect each inlet for structural integrity prior to evaluating the need for cleaning. Report any deficiencies on the Inlet (Catch Basin) Report form.
 - a. The inspector will be dispatched to investigate all reported inlet deficiencies.
 - b. If a deficiency can be corrected by the Sewer Maintenance Section, a work order will be written for inlet repair.

- c. If the damage is so severe that it cannot be corrected by the Sewer Maintenance Section, the problem will be referred to the Public Works Engineering Division for correction.
4. Inspect each inlet for the presence of contaminants.
 - a. If a contaminant (such as raw sewage or oil) is encountered, contact the Sewer Maintenance Section dispatcher and request that a jetvac truck be sent to clean the inlet. Log the inspection on the Inlet (Catch Basin) Report form and proceed to the next inlet.
 - i. If the presence of contaminants in a particular inlet or region becomes a recurring problem, refer the situation to the Environmental Compliance Superintendent for investigation.
5. If no contaminants are encountered, determine whether or not the inlet needs to be cleaned.
 - a. If the inlet does not need to be cleaned, log the inspection on the Inlet (Catch Basin) Report form and proceed to the next inlet.
 - b. If the inlet needs cleaning and can be cleaned with the equipment available on the service truck, proceed with cleaning of the inlet. Log the inspection and cleaning on the Inlet (Catch Basin) Report form and proceed to the next inlet.
 - c. If the inlet cannot be cleaned with the equipment available on the service truck and is not holding back flow, log the inspection on the Inlet (Catch Basin) Report form and proceed to the next inlet. Upon returning to the Sewer Maintenance Building at the end of the day, request that the Sewer Maintenance Section dispatcher write a work order to have a jetvac truck clean the inlet.
 - d. If the inlet cannot be cleaned with the equipment available on the service truck and is holding back flow, call the Sewer Maintenance Section dispatcher and request that a jetvac truck be sent to clean the inlet. Log the inspection on the Inlet (Catch Basin) Report form and proceed to the next inlet.
6. At the end of each work day, or once the jetvac truck storage chamber is full, drive to the Unified Government's collection site at 5830 Inland Dr. and discharge the contents of the jetvac truck storage chamber in the designated area. Material collected by the service truck operator shall be disposed of in a similar manner at 47th & Orville.
7. Load residual material into containers at the dumpsite in preparation for landfill disposal.

APPLICABLE FORMS AND INFORMATION:

1. *Inlet (Catch Basin) Report form*

APPENDIX D – APWA MANUAL OF PRACTICE

(The latest version of the APWA Manual of Practice adopted by the UG can be found
on the UG's Public Works Website)

