

2012 Annual Compliance Report

for

National Pollutant Discharge Elimination System – MS4 Permit

Permit Holder:

**Unified Government of Wyandotte
County/Kansas City Kansas**

Kansas Permit no.: M-MO25-S001

NPDES Permit no.: KS-0095656

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INTRODUCTION

In accordance with the reporting requirements contained within Kansas Water Pollution Control MS4 Permit No. M-MO25-SO01, effective October 1, 2007, the Unified Government of Wyandotte County/Kansas City, Kansas (UG) is required to submit an annual report to the Kansas Department of Health and Environment (KDHE) which: (1) 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); (2) includes data gathered during the reporting period, specifically including stormwater monitoring data; and (3) summarizes the stormwater activities that UG will undertake during the next reporting cycle. This annual report summarizes the progress for Year Five of the permit, from January 1, 2012 through December 31, 2012.

The Stormwater Management Plan (SWMP) submitted in 2008 includes a number of best management practices (BMPs) which are being implemented by the UG. These practices are designed to reduce the discharge of pollutants from the MS4 to the MEP, to attenuate the discharge of TMDL regulated pollutants to specific lakes and/or streams, and to attenuate the discharge of Priority Pollutants of Concern. This report addresses progress toward implementing the BMPs outlined in that plan as well as other activities directed toward the same goal.

During 2010, the UG completely overhauled and updated the original 2008 SWMP. Subsequent revisions were made several times during 2012. A revised draft SWMP was submitted to EPA on September 14, 2012. New and revised performance measures were developed and incorporated into the plan. Although the SWMP was revised in Year 2013, UG agreed to an implementation start date for the most recent version of the SWMP of January 1, 2013. Future annual reports will incorporate the changes made to the SWMP and implemented on the effective date. The UG would note that as we move forward with the implementation of the revised SWMP, we will be focusing on ways to adapt and improve our programs over time. Although this report may highlight future improvements, changes should not be viewed as a suggestion that current BMPs are inadequate or ineffective.

SWMP Implementation Highlights in 2012

- **Updated Stormwater Management Plan (SWMP).** The 2008 SWMP was revised and submitted for comment to KDHE and EPA on September 30, 2010. The revised SWMP was prepared in response to KDHE's letter dated August 13, 2009 and to negotiations with EPA and the DOJ. The September 30, 2010 submittal was reviewed by the EPA and KDHE and comments were provided in their letter dated

December 20, 2010. A subsequent letter from the EPA, dated February 16, 2011, included additional comments related to the SWMP revisions. In response to the December 2010 and February 2011 letters, the SWMP was revised once again and was submitted to EPA and KDHE on April 19, 2011. Another round of comments was submitted by EPA and KDHE to the UG in June 2011. Another updated SWMP was sent for review on October 3, 2011. As a result of new comments received from EPA as well as from the UG's new legal counsel, Aqualaw, August 2012, an additional round of revisions to the draft SWMP were made. The final draft of the SWMP was submitted to EPA in September of 2012. A final copy of the SWMP will be posted on the UG's website when it has been finalized.

- **Stormwater Customer Drainage Fee.** In 2009, the UG implemented a Stormwater customer drainage fee of \$2.00 per month for every developed property within the City. From 2009 to 2011, the rate increased from \$2.00 to \$4.00 per month. Beginning January 1, 2012, the SW drainage fee increased to \$4.50 per month. The most current rate increase documentation is found in Appendix G1. Funds generated from these fees are being used for all aspects of the UG's stormwater system, including capital improvement projects, spot repairs on the current stormwater system, and MS4 compliance activities.
- **Public Education and Outreach/Public Involvement and Participation.** Efforts with regard to these two control measures went beyond those outlined in the current SWMP. Throughout 2012, additional attention was paid to focus on stormwater quality issues in the areas of public education and public involvement activities. Further information is provided in the sections titled Control Measures 1 and 2.
- **GIS Conversion.** In 2012, combined efforts from the Sewer Maintenance Division and the UG's GIS Department converted all storm sewer maps from AutoCAD into GIS.
- **Standard Operating Procedures (SOP) Documentation and Implementation.** Early in 2012, the UG committed to the documentation, development and implementation of five batches of SOPs independent of the SWMP start date. The sixteen (16) SOPs which have been prepared as of December 31, 2012 are located on the UG's internal Sharepoint site as well as distributed to the related supervisors. The SOPs that relate to the control measures are referenced after each BMP attainment section.

The following SOPs were timely submitted to EPA for review and comment during 2012:

- (i) *SWMP Section 4.A.1 (Plan Review & Approval SOP)*
- (ii) *SWMP Section 5.B.1 (Plan Review & Approval SOP)*

- (iii) *SWMP Section 6.B.1 (Vehicle Washing SOP)*
- (i) *SWMP Section 4.A.2 (Erosion Control Inspection SOP)*
- (ii) *SWMP Section 4.B.3 (Enforcement SOP)*
- (iii) *SWMP Section 5.B.2 (BMP Inspection SOP)*
- (iv) *SWMP Section 5.B.3 (Enforcement SOP)*
- (v) *SWMP Section 6.A.1 (Review/Modify PHF App. SOP)*
- (vi) *SWMP Section 6.C.1 (Street Sweeping SOP)*
- (vii) *SWMP Section 6.G.1 (Inlet Inspection/Cleaning SOP)*

- (i) *SWMP Section 3.B.1 (Outfall Inspection SOP)*
- (ii) *SWMP Section 3.B.2 (DW Sampling SOP)*
- (iii) *SWMP Section 3.B.3 (Illicit Discharge Tracking SOP)*
- (iv) *SWMP Section 9.A.1 (Wet Weather Monitoring SOP)*
- (v) *SWMP Section 9.A.2 (Data Analysis SOP)*

- (i) *SWMP Section 3.B.4 (Ordinance Enforcement SOP)*

- **IDDE Program.** An IDDE pilot project for was initiated in November 2011 in a partnership with the Army Corps of Engineers (COE). Field investigation, outfall inspections and development of certain SOPs during the pilot project occurred during 2012.

Compliance with Permit

UG's current permit requires that UG develop, implement and enforce a stormwater management program designed to reduce the discharge of pollutants from the MS4 to the

MEP, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. As noted above, this annual report must address the status of compliance with the permit, assess the appropriateness of BMPs, and explain progress toward achieving measurable goals for each MCM as well as the statutory goal to reduce pollutants discharged from the MS4 to the MEP.

This section reports on UG's compliance with its permit during the 2012 reporting period. Progress toward attaining goals identified in the current (2008) SWMP is described below.

Control Measure 1 – Public Education and Outreach

- **BMP:** Remain a dues paying municipal sponsor of Mid American Regional Council Water Quality Public Education committee. The MARC WQPEC is involved in storm water public outreach for the Kansas City Metro region.

Attainment Progress: Remained a member in good standing throughout 2012 and an active participant in the quarterly Water Quality Education meetings. Dues paid to MARC for the committee were \$15,000. Regularly attended at-large meeting as well as actively involved in WQRC Grant sub-committee. MARC Water Quality Education Annual Report is in Appendix A1 and 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.

- **BMP:** Provide cash sponsorship of annual water quality outreach performed by Wyandotte County Conservation District (WCCD).

Attainment Progress: In 2012, the UG supported the WCCD with approximately \$42,221. A summary of WCCD's activities and other education and outreach efforts is located in Appendix A2.

- **BMP:** Distribute lawn care and safe herbicide usage instructions in conjunction with the "Cost Share Program" sponsored by the Kansas Department of Agriculture.

Attainment Progress: Flyers were displayed and copies made available to the public at the Noxious Weed Control sales desk of the Parks Department. A copy of the available forms is located in Appendix A3.

- **Other significant efforts in 2012 have included the following:**

1. *Website:*
Update of storm water information page to the Public Works Department web site at: <http://www.wycokck.org/PW>

A print out of the website front page can be found in Appendix A4.
2. *BRWA Sponsorship:* In 2012, the UG became a sponsor to Blue River Watershed Association (BRWA), a local non-profit water quality educational group. Total contribution for 2012 was \$11,300. They visited 20 classes in Wyandotte County School District teaching water quality both in the classroom and as a hands-on learning experience in area streams. They also organized two adult stream cleaning teams. A summary of their 2012 activities in Wyandotte County are found in Appendix A5.
3. *Wyandotte County Conservation District-Water Rally 2012:* Employees from the Sewer Maintenance and Engineering Divisions participated in the 2012 Water Rally held by the WCCD on April 13, 2012. Sewer Maintenance provided a CCTV truck and demonstrated on a short section of storm pipe how the TV inspection works. Engineering staff gave a demonstration on how pollutants get into the local storm sewer through inlets and presented ways that the public can help with prevention. There were over 170 students throughout the day in 20 minute intervals.
4. *Summary of Public Education & Outreach for 2012:* A detailed summary of the Public Education & Outreach activities during 2012 can be found in Appendix A6.

Control Measure 2 – Public Involvement and Participation

- **BMP:** Provide 311-system phone based complaint processing. The UG uses a 311 system as the primary routing of calls to the general phone number. The local 311 system operates from “knowledge based articles” or KBA.

Attainment Progress: A copy of the KBA that is utilized by the 3-1-1 call center is located in Appendix B1 .

Additional Activity: In 2011, the Engineering Department of Public Works implemented the Engineer of the Month (EOM) program to handle calls that were routed through the Public Works Department. In 2012, approximately 75 calls were received with questions regarding storm water, erosion, and other drainage concerns.

- **BMP:** Hold open house for input to post construction water quality ordinance.

Attainment Progress: Completed in November 2009. Ordinance passed in May 2010.

- **Other public participation activities have included:**

1. *Household Hazardous Waste Collection:* In 2012, seven (7) household hazardous waste collection days were conducted. Information about the collection events was included in the Livable Neighborhoods Newsletter and in the local paper prior to the each collection day. There were 1,028 participants that delivered 33.04 tons of household hazardous waste in 2012. A sample newsletter article and a memo on the collection results are in Appendix B2.
2. *Participation with Electronic Waste Collection Events:* There were 3 electronics recycling events held in Wyandotte County in 2012. The UG was involved with scheduling two electronics recycling events and the Foundation for School District #500 also held one electronics event in 2012.

Around Earth Day, in partnership with the E.P.A., Federal Prison Industries Inc. (UNICOR); the B.P.U. and Operation Brightside Inc., and the UG participated with an annual electronic collection day that targeted Federal Government Agencies and its employees, the UG and its employees, and the Board of Public Utilities and its employees. On April 25, 2012; 101 vehicles dropped of 19,552 pounds or 9.8 tons of electronics.

On August 8, 2012 the Foundation for Excellence of the USD #500 Kansas City, Kansas Public Schools held an electronics recycling event. They processed 200 cars and collected 16,000 pounds or 8 tons of electronics.

In celebration of America Recycles Day, Heartland Habitat for Humanity Restore; Federal Prison Industries Inc. (UNICOR); the UG; and Phi Theta Kappa from KCKCC, and Operation Brightside Inc. held an annual electronic collection day event. On November 17, 2012, 128 vehicles dropped off 15,812 pounds or 7.9 tons of electronics.

2012 Events Held	Tonnage Electronics	# of Vehicles
Earth Day Event	9.8	101
America Recycles Day	7.9	128
School District Event	8	200

2012 Totals	25.7 Tons	429 Vehicles
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Electronics accepted free of charge 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.

3. *Partnership with Operation Brightside, Inc:* Operation Brightside is a local non-profit which is affiliated with Keep America Beautiful (KAB). They work to coordinate community participation in an annual spring clean up and beautification event. This year there were 45 clean-up events including 2,392 volunteers contributing over 4,000 hours of cleanup service. In 2012, the UG contributed \$940.00 to the organization. Additional details of the Operation Brightside, Inc. efforts are included in the Appendix B3.

Control Measure 3 – Illicit Discharge Detection and Elimination

- **BMP:** Maintain active CSO separation program.

Attainment Progress: In 2000 the UG submitted a Long Term Control Plan to the KDHE for consideration and approval. Additionally, a Nine Minimum Control Plan (NMCP) was submitted in 1999. The UG has implemented several projects since 2000 to abate or reduce combined sewer overflows to local streams during wet weather events.

- **BMP:** Investigate any suspect connections located during sewer inspection, repair, or replacement activities.

Attainment Progress: During 2012, there were three locations that had illicit connections. These locations were disconnected from the storm sewer and service was connected to the sanitary sewer in the area.

- **BMP:** Prepare written investigation and enforcement policy for IDDE. SMP completion date is October 1, 2009.

Attainment Progress: As discussed in the “Highlights” section of this report, the Stormwater Management Plan, including all IDDE policies and procedures underwent a comprehensive revision in 2012. An IDDE pilot project for was initiated in November 2011 in a partnership with the Army Corps of Engineers (COE). Field investigation, outfall inspections and development of certain SOPs during the pilot project occurred during 2012. Four SOPs for inspection, dry weather sampling, source investigation and

tracking, and enforcement of illicit discharges were developed and submitted to EPA for review and comment as part of the Batch 3 and 4 submittals.

Reference SOP: SWMP-11 through 14

- **BMP:** Conduct as-requested sampling of swimming pool water prior to discharge.

Attainment Progress: No chlorine residual tests were requested or conducted for swimming pool discharges in 2012.

- **BMP:** Accept and treat septic waste from commercial waste haulers.

Attainment Progress: The Kaw Point WWTP accepted 2.4 million gallons of septic waste and 5.4 million gallons of grease in 2012. Special hauled waste volume collected was approximately 300,000 gallons. This ensured that these wastes were fully treated before discharge.

- **BMP:** Conduct septic system enforcement program.

Attainment Progress: In 2012 the Health Department issued 11 non-compliance letters for failing septic systems with 21 septic system repair permits being issued as a result of the letters. There were no court cases regarding failing septic system issues in 2012.

- **BMP:** Establish 311 script for IDDE complaints.

Attainment Progress: Completed and reported on in 2008.

Control Measure 4 – Construction Site Stormwater Runoff Control

- **BMP:** Establish legal authority for construction site runoff control.

Attainment Progress: A Land Disturbance Ordinance related to construction site erosion control has been in place since December 14, 2006.

- **BMP:** Establish permit procedures and design guidelines for construction site runoff control.

Attainment Progress: SOP No. SWMP-01 was developed and submitted to EPA as part of the Batch 1 submittals. A land disturbance permit is required for sites that disturb one or more acres. There is a land disturbance fee required. In order to obtain a

construction permit, the developer or property owner must submit an erosion and sediment control plan that is acceptable to the Planning Department. Eighteen (18) land disturbance permits were issued in 2012.

Reference SOP: SWMP-01

- **BMP:** Establish 3-1-1 operator call script for construction site runoff complaints.

Attainment Progress: Completed in 2008.

- **BMP:** Investigation and enforcement.

Attainment Progress: Two SOPs for inspection and enforcement were developed and submitted to EPA for review and comment as part of the Batch 2 submittals. Since 2010, sites that have received a land disturbance permit are being actively inspected for compliance with their approved Erosion & Sediment Control plan. In 2012, approximately 75 erosion inspections were performed by a UG inspector. A summary of inspection sites for 2012 and an example inspection report form are in Appendix C1.

Reference SOP: SWMP-04 and 05

Control Measure 5 – Post Construction Stormwater Management in New Development and Redevelopment Projects

- **BMP:** Establish legal authority for post construction stormwater runoff management. To be completed by April 1, 2010.

Attainment Progress: A copy of the ordinance was reported for the 2010 Annual Report.

- **BMP:** Establish permit procedures and design guidelines. To be completed by October 1, 2010.

Attainment Progress: SOP No. SWMP-02 was developed and submitted to EPA as part of the Batch 1 submittals. The plan review and permit process has been updated and is documented in SWMP-02. The process now includes plan review to verify that the post-construction controls have been designed in accordance UG's adopted standards.

Reference SOP: SWMP-02

- **BMP:** Establish special requirements for Wyandotte County Lake watershed. To be completed by October 1, 2010.

Attainment Progress: During the SWMP revision process, a BMP for Wyandotte County Lake Watershed was established and approved by KDHE. The BMP and correspondence with KDHE was submitted with the 2011 Annual Report.

- **BMP:** Investigation and enforcement. To begin by October 1, 2010.

Attainment Progress: Two SOPs for inspection and enforcement of post construction sites were developed and submitted to EPA for review and comment as part of the Batch 2 submittals.

Reference SOP: SWMP-06 and 07

- **BMP:** Local sponsor of USACOE 14 acre riparian enhancement project as part of Turkey Creek Improvements.

Attainment Progress: The Corps of Engineers (COE) enhancement project was undertaken as part of the levee construction project on Turkey creek between 7th Street Trafficway and Mission Road. The project was completed in December 2011 and two warranty inspections occurred during 2012. The COE submitted a draft O&M manual for the UG in December 2012 and we are currently in the process of finalizing the O&M manual. Appendix D1 contains pictures of the completed project.

Control Measure 6 – Pollution Prevention/Good Housekeeping for Municipal Operations

- **BMP:** Minimize chemical inputs (fertilizer and pesticide) in parkland maintenance.

Attainment Progress: In 2012, the Parks Department applied 135 gallons of Alligare Glyphosate 4 Plus, 2.5 gallons of Pathway (Tryclopypyr) pesticide, and 450lbs of nitrogen. SOP No. SWMP-08 was developed and submitted to EPA for review and comment.

Reference SOP: SWMP-08

- **BMP:** Maintain state licenses for pesticide applicators and supervisors.

Attainment Progress: The Parks Department employs three licensed pesticide applicators. They handle the application for all chemicals for which a licensed applicator is required.

- **BMP:** Operate centralized vehicle wash facility.

Attainment Progress: A total of 18,839 UG vehicle washes occurred at the wash facility in 2012. SOP No. SWMP-03 was developed and submitted to EPA for review and comment.

Reference SOP: SWMP-03

- **BMP:** Continue street sweeping program.

Attainment Progress: Street department performed street sweeping throughout 2012. There were 8,969 lane miles swept and an estimated 6,314 cubic yards of material collected from the streets. The street sweeping log is in Appendix E1. SOP No. SWMP-09 was developed and submitted to EPA for review and comment.

Reference SOP: SWMP-09

Additionally, another SOP was developed for stormwater inlet inspection and cleaning. SOP No. SWMP-10 was developed and submitted to EPA for review and comment.

Reference SOP: SWMP-10

- **BMP:** Continue HHW collection.

Attainment Progress: Refer to section titled “Control Measure 2” in this report and to Appendix B2.

Wyandotte County Lake Watershed TMDL Regulated Pollutants

- **BMP:** Water and Soil Sampling to monitor lake eutrophication. Work to begin in 2009.

Attainment Progress: Sampling occurred during 2011 and was reported in the 2011 Annual Report. This included results on Priority Pollutants of Concern: E.Coli, Turbidity, Nitrogen, and Phosphorous. Based on the results of the sampling efforts, BMPs will be developed to address these Priority Pollutants during the 2013 SWMP implementation.

- **BMP:** Install pet waste receptacles and signage at Wyandotte County Lake Park. Work to begin in 2009.

Attainment Progress: There are 4 pet waste stations in Wyandotte County. No new pet waste stations were installed in the park system in 2012, however, existing stations were routinely inspected and bags replenished. A total of 400 waste bags were used at stations throughout the county.

- **BMP:** Annual inspection of UG owned septic systems at Wyandotte County Lake Park. Work to begin in 2009.

Attainment Progress: To be completed by the end of the summer in 2013, UG will inspect the UG owned septic systems at Wyandotte County Lake.

Assessment of Appropriateness of BMPs

UG's current permit requires that as a part of this annual report UG assess the appropriateness of the BMPs implemented over the reporting cycle.

During the 2008 Permit cycle, there were many achievements and strengths pertaining to the MS4 program and SWMP implementation. The efforts in the area of Public Outreach and Participation went well above the required activities and many new partnerships were formed with organizations in the metro area. Efforts were also increased in the area of erosion control plan review and inspection processes. For the purpose of addressing priority pollutants of concern and TMDLs, the development of the Wyandotte County Lake BMP with input from KDHE was another milestone. Based upon the UG's review, we found these BMPs to be appropriate, effective, and to the benefit of water quality.

UG believes that septic system inspections (both private and public at WYCO Lake), enforcement of erosion control, and post-construction BMP inspections are appropriate BMPs for the program. Additional implementation will provide more information that will allow for a more thorough assessment of their effectiveness. UG notes that the erosion control and post-construction BMP inspection procedures were developed later in the permit cycle. However, these programs will be an integral focus points for Year 1 of the new SWMP (2013).

Stormwater Monitoring

UG's current permit requires that as a part of this annual report UG provide the results of information collected and analyzed during the report period, including stormwater monitoring data.

Samples were collected and analyzed at the stormwater sampling sites during wet weather events. The results of the samples collected are listed in Appendix F1. Two SOPs for Wet Weather Monitoring and Data Analysis were developed and submitted to EPA for review and comment.

Reference SOP: SWMP-15 and 16

Activities for Next Reporting Cycle

UG's current permit requires that as a part of this annual report UG provide a summary of the stormwater activities that UG will undertake during the next reporting cycle (including an implementation schedule).

Starting January 1, 2013, the UG began implementing the new 2013 SWMP (draft) and working on Year 1 tasks. The following items are tasked for Year 1 and work has already commenced:

- Quarter 1 tasks complete (Jan. 1, 2013-Mar. 31, 2013)
 - Create an archive of past Annual Reports, Permits, and other MS4 items
 - Remaining SOPs (Industrial Activity SW Runoff Management) developed and submitted to EPA
- Quarter 2 & 3 Proposed Tasks (April 1, 2013-Sept. 30, 2013)
 - Erosion & Sediment Control Program implementation
 - Inventory and inspections of constructed BMPs on development sites
- Ongoing Year 1 tasks (completed by Dec. 31, 2013)
 - Evaluate current SOPs throughout Year 1 and update accordingly
 - Development of IDDE and Industrial Inspection Program
 - Implementation on other items marked as Year 1 tasks in SWMP (2013).

Appendix A1

MARC Water Quality Education Annual Report

Mid-America Regional Council
Regional Water Quality
Public Education Program

2012
ANNUAL
REPORT



Clean Water. Healthy Life.

CLEAN WATER. HEALTHY LIFE.

Regional Water Quality Public Education Program

Annual Report

January—December 2012

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 develop 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 general public about actions they can take to reduce non-point source (NPS) pollution.

PROGRAM DETAILS

The Regional Water Quality Public Education Program is a comprehensive approach to raising public awareness about watershed issues and water quality in the Kansas City region. The long-term water quality public education strategy capitalizes on momentum created by past water quality awareness topics and community initiatives such as the Kansas Healthy Yards and Communities program. The program's outreach campaign structure identifies several specific water quality issues to address throughout the year; however, the structure remains flexible by promoting additional messages as opportunities arise. Campaigns consist of varying levels of support and methods of outreach, as explained below.

PROGRAM FOCUS

During the past nine years the program has addressed several top NPS pollution issues facing our 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 for disseminating 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.

PUBLIC ATTITUDE SURVEY

The committee administers a biennial public attitude survey* to gauge the public's knowledge of and attitudes about water quality in the metropolitan area. Survey questions are designed to measure the impact that education efforts have on the public's overall awareness of water quality concerns and on behaviors that impact water quality in the region. The water quality survey provides a benchmark for objectively evaluating water quality public education initiatives over time, and provides guidance for future public policy, planning and education efforts.

The 2012 Survey results showed the following:

- 82 percent of residents are very or somewhat concerned with pollution in lakes, streams and other waterways;
- 47 percent do not know where stormwater goes after entering storm drains;
- 67 percent feel water pollution from stormwater runoff is a major or minor problem;
- Regarding development, 89 percent support requiring conservation of areas along streams, 88 percent support requiring preservation of trees and natural areas, 83 percent support adopting plans to restore urban waterways and 83 percent support providing incentives to plant native flowers and grasses;
- 88 percent feel it is important to prevent sewer overflows;
- 78 percent feel it is important to improve water quality in the community;
- 75 percent support local government working with other cities and counties to improve water quality.

Full survey results are available online at www.marc.org/Environment/Water/surveys.htm.

**Baseline survey conducted in 2003; most recent survey conducted spring 2012.*

2012 PROGRAM ACCOMPLISHMENTS

Media Campaign

MARC staff assists the committee with strategic planning for media campaigns, including message development, writing, graphic design and advertising purchasing. Campaigns can include a variety of elements such as paid advertising, earned media, printed materials and other activities. In 2012, the public outreach campaign continued to target residents and homeowners, focusing on two topics: **storm drain awareness and healthy lawn care**.

The primary **storm drain awareness** campaign maintained the message developed in 2010: “If it’s on the ground, it’s in our water.” The campaign addressed issues such as improperly throwing waste

CAMPAIGN ELEMENTS

Healthy Yards video
“Healthy Yards, Healthy Communities”



Storm Drain video
“If it’s on the ground, it’s in our water”



CAMPAIGN ELEMENTS

Newspaper ads



Web ads



Sub-campaign videos

"Creating and Maintaining Native Landscapes"



"Inviting Native Plants into your Community"



down storm drains, fertilizer runoff and pet waste. Advertising efforts highlighted the connection between certain activities and regional water quality, emphasizing the role storm drains play in transporting materials to area waterways.

The secondary focus was **healthy lawn care** ("Healthy Lawns. Healthy Communities."). Messages addressed actions that impact water quality, including proper fertilizing habits and yard waste disposal.

The year's media campaign was divided into spring and fall outreach periods. Total campaign elements for 2012 included:

- Two 30-second TV commercials (stormwater and healthy lawn)
- On-air advertising:
 - Time Warner Cable (five stations, 380 total spots)
- Online ads
 - Ads on four TV station websites and The Kansas City Star's website, kansascity.com
 - More than 2 million online impressions earned
- Targeted newspaper ads
 - Approximately 30 ads in 15 regional publications
 - Approximately 2 million readers reached

Each commercial is available to committee members on the MARC YouTube channel, (www.youtube.com/MARCKCMetro).

A new informational brochure about stormwater was also developed in 2012. It was designed as a tie-in to the media campaign, reiterating both the storm drain and healthy lawn messages.

SUB-CAMPAIGNS

To supplement the messages of stormwater awareness and proper lawn and garden maintenance, the committee elected to build on the momentum of past campaigns by revisiting topics such as native plants and pet waste. Messages targeted specific audiences and were disseminated via workshops, public events, Web-based resources, publications, social media and public signage.

MARC air and water quality staff partnered on a three-part educational series "Planting a Prairie" that included a tour of local demonstration projects, a public policy forum and a design and maintenance workshop. The effort resulted in four new videos, available online at <http://bit.ly/PlantingPrairie>, that highlight the benefits of native plants and key management principles.

GRANT PROGRAMS

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 selection subcommittee. The WQEC budgeted \$20,000 for grant awards in 2012, with a cap of \$5,000 per proposal. Six proposals were chosen for funding in 2012:

- ***Green Works of Kansas City (\$3,000 awarded)***
Funds awarded to Green Works of Kansas City supported its fall Urban Water Session, which took place between September and November 2012. During this 12-week educational session, 22 high school students completed 60 program hours covering green solutions and native plants, created water systems models and learned about non-point source pollution and healthy ecosystems. Students also took a guided ride on the Missouri River, participated in local park rain garden improvements, and learned about Kansas City's storm and sewer system during a tour of water and wastewater treatment facilities.
- ***South Grand River Watershed Alliance (\$3,128 awarded)***
Grant funding to the South Grand River Watershed Alliance (SGRWA) supported a partnership of Peculiar Lions Club International, the Cass County Sustainability Committee, Missouri Stream Team Amarrugia Ridge Runners, Missouri Master Naturalists, the Peculiar Farmers & Artisans Market, the City of Peculiar, and the Missouri Department of Conservation. These partners hosted the Peculiar Know Your Watershed Festival in July 2012. More than 100 adults, 30 children and more than 31 volunteers participated. The educational event provided workshops and information to attendees about the adverse impacts of excessive stormwater runoff and nonpoint source (NPS) pollution and actions individuals, local governments, and businesses can take to minimize these impacts. The event also promoted policies and management practices to reduce stormwater runoff and NPS pollution through demonstrations, activities and informative stations.
- ***Missouri River Relief (\$5,000 awarded)***
Grant funds allowed Missouri River Relief to expand existing educational opportunities by increasing its work with a pilot program of classroom presentations for younger students and adults, a watershed festival for grade-school and middle-school students, and a "Day on the River" program for high-school students. The educational events finished with a Big Muddy River Clean-up in October. Over 129 students participated and 303 volunteers, to make a "Day on the River" and the KC Big Muddy Clean-Up events a success. Students, parents and metro area citizens had the opportunity to observe the highly visible effects of stormwater runoff and non-point source pollution on the river and help with debris removal during the river clean-up.
- ***Roanoke Park Conservancy (\$2,300 awarded)***
Roanoke Park Conservancy received grant funding to provide community education about using native species and best management practices to minimize erosion and improve stormwater absorption and water quality. Approximately 30 community members and volunteers helped construct a vegetated swale of approximately 1,200 square feet in Roanoke Park in Kansas City, Mo. The swale addresses erosion and stormwater absorption issues, improves upland water quality and beautifies the park. From this participatory activity,

Roanoke Park Conservancy was able to promote and continue the complete, native ecological restoration of the overall landscape found within the boundaries of the park, while improving water quality in the Turkey Creek Watershed with stormwater capture and pollution filtration. A link to view more about the bio-swale and a video of this project can be found at, <http://www.roanokeparkkc.org/plans/planting-the-future>.

- ***Blue River Watershed Association (\$3,500 awarded)***
Blue River Watershed Association received funds for a partnership with the West Branch Sni-A-Bar Creek Watershed Consortium for education and outreach for fifth-grade students in the west branch of Sni-A-Bar Creek Watershed. This educational opportunity provided seven classes to teach students about watersheds, runoff and pollutant causes and the impact on water quality. The funding provided to this four-session educational opportunity allowed students to participate in water quality and stream monitoring activities and relate their analysis to changes in societal behaviors.
- ***New Reflections KC (\$3,000 awarded)***
Grant funding was dedicated to New Reflections KC for green collar job training and coordinated demonstration projects of rain barrel and rain garden installation near 69th and Prospect. Program participants were trained on disconnecting downspouts, and building and installing rain barrels and rain gardens. The New Reflections KC program dedicated and installed 50 rain barrels for community members in the service area and installed two rain gardens. In addition, two workshops were held in the Middle Blue River Pilot area to address the importance of water quality and best management practices.

TRAININGS

The committee continues to house and expand a library of training videos for local communities' use. Available videos, with accompanying training materials, include:

- *Storm Warnings: Stormwater Pollution Prevention — Everyday Best Management Practices*
- *Septic Systems Revealed: A Guide to Operation, Care and Maintenance*
- *Stormwater Pollution Prevention: A Drop in the Bucket*
- *Ground Control: Stormwater Prevention for Construction Sites*
- *Rain Check: Stormwater Pollution Prevention for MS4s**
- *IDDE (Illicit Discharge Detection and Elimination) — A Grate Concern**
* New in 2012

The committee hosted and/or partnered to host three webinars in 2012:

- *Get the Dirt on Stormwater, Sept. 19, 2012*
- *Leaving You Out in the Rain — Design & Implementation of Monitoring Projects, Oct. 24, 2012*
- *Customizing Your Stormwater BMP Design for Specific Pollutants, Dec. 12, 2012*

PRINT MATERIALS

MARC developed a new stormwater education piece tied to the *If it's on the ground, it's in our water* outreach campaign. The brochure was available and distributed in 2012.

MARC staff researched and ordered native plant seed packets and storm drain decals for distribution and use by member communities. Also, Green Works KC, a committee partner and grantee, developed a native plant guide entitled *A Little Bit of Wild* that MARC purchased for distribution.

Native Plants and Rain Gardens

- Purchased 1,000 wildflower seed packets for distribution
- Continued to distribute *How to Build Your Own Rain Garden* and *Know Your Roots* brochures
- Continued to provide informational rain garden signs for local community demonstration projects
- Distributed 100 copies of *A Little Bit of Wild* native plant and rain garden booklets

Pet Waste

- Purchased 100 *Pick Up After Your Pet* waterproof signs for distribution to local municipalities
- Continued distribution of *Pick Up After Your Pet* brochures

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

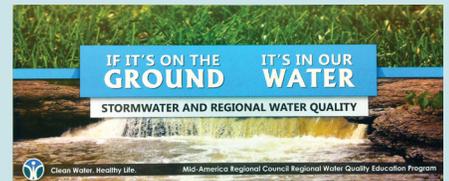
- Purchased 500 Storm Drain Inlet Marker Stencils for local municipalities
- Continued to distribute *Keep Sediment Out of Our Water*, *Know Your Watershed*, *Protect Our Streams*, and *Storm Drain Stewardship* brochures
- Continued to make available the committee's Water Quality Education Program banner for community events and functions

Youth Stormwater Education

- Continued to distribute youth giveaways to help promote stormwater education: "From Rain to River – Keep it Clean"

CAMPAIGN ELEMENTS

Stormwater Education Brochure



Promotional Items



bracelets, *Discover Stormwater* activity booklet and *Healthy Water, Healthy People* activity booklet.

- Continued to make the committee's watershed display and marble game available for local community events.

ADDITIONAL WORK

Provided various information and material (brochure templates, images, etc.) to organizations in communities that are either outside the MARC region or local groups that are not part of the Water Quality Education Program. All organizations agreed to acknowledge MARC's Water Quality Education Program as the information source.

FUNDING

In January 2012, MARC submitted a program funding request to local governments budgeted at \$160,049. During the course of the year, 20 local governments supported the program. Participating governments are listed below.

PARTICIPATING GOVERNMENTS

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

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

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

WQEC COMMITTEE CHAIR

Nate Baldwin, Platte County, Mo.

MARC STAFF

Tom Jacobs, Director of Environmental Programs

Lesley Rigney, Watershed Planner

Amanda McGee, Environmental Planning
& Water Quality Intern

Brett Shoffner, Environmental Planning
& Water Quality Intern

CONTACT To learn more about the Regional Water Quality Education Committee, contact Lesley Rigney at lrigney@marc.org or 816/701-8355



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

Appendix A2

Wyandotte County Conservation District Annual Report

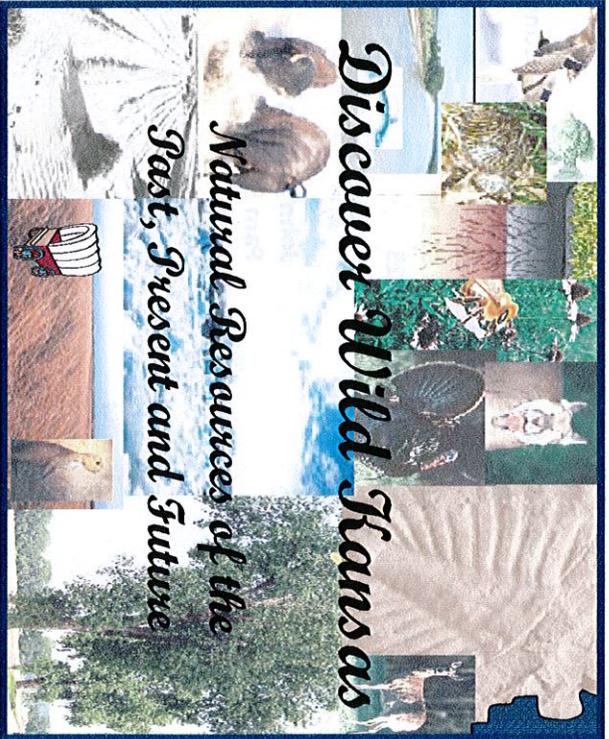
**Thank you to these generous companies
and their support of the
Wyandotte County Conservation District
Education Programs**



Rainbow Carwash
4604 Rainbow Blvd
Kansas City, KS 66103
(913) 432-1116
Hours:
Mon-Sat 8 am - 6 pm
Sun 9 am - 3 pm

Ward Carwash
10215 Leavenworth Rd
Kansas City, KS 66109
(913) 538-2147

Golden Boy Pies, Inc.
abp@goldenboypies.com
4945 Hadley Street
Overland Park, Kansas, 66203
(913) 384-6460



Agenda

Wyandotte County Conservation District Annual Meeting
Grinter Place Historic Site
1400 S. 78th Street
Kansas City, Kansas 66109
February 7, 2013

6:25pm
Welcome
Invocation
John Shidler, Chairperson
Pam Blood

6:30pm
Dinner

7:15pm
Business Meeting

Introductions
Explanation of meeting requirements and purpose
Approval of minutes
Annual Report
Financial Report
John Shidler, Chairperson
Kris Blevins
Vice-Chairperson

Election of Supervisor
Election of one Supervisor
John Shidler, Chairperson
John Shidler
Amanda Whitehurst, CED
Ronda Schuler
John Shidler

Adjournment
Election Results
Presentation
Lonnie Miller
Bill Whinery-
Operation Wildlife

2012 Program Highlights



Classroom Presentations and Mini-festivals/ Waterdrops
 The District Manager with generous assistance of partners and volunteers presented classroom programs and single school festivals, providing hands-on programs for more than 2100 participants. In grades PreK-12.



Partner Programs

Presented programs to more than 1050 students for festivals and events organized by other conservation districts: Leavenworth, Franklin, Miami, Jefferson, and Douglas County Conservation Districts. Participated in presenting programs to the more than 17,000 attendees with NASA for Day at the K (outdoor weather classroom). Presented multiple programs at Fort Leavenworth for 523 students at Eisenhower Elementary. Teacher Appreciation Day at the Zoo presented water quality programs to 650 educators their family members and Zoo patrons.

Water Rally

614 Students 32 Teachers and 67 Chaperones registered to attend the tenth and final Water Rally outdoor classroom. 156 Presenters and Volunteers made it possible to provide this event.

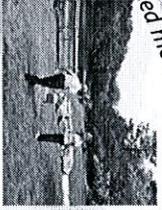
Family Science Nights at the KC ZOO

Programs on: Pollinators, Fossils, Chromatography, Chemistry, Geology, Wind energy and Physics - buoyancy, over 800 individuals participating during these free family events



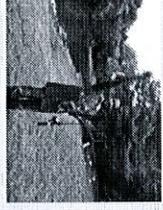
2012

Need more Worms!



20 Students
7 Educators
10 Volunteers

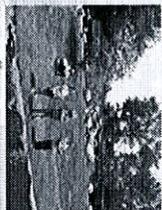
First Fish



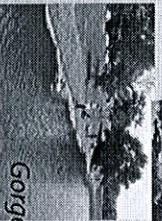
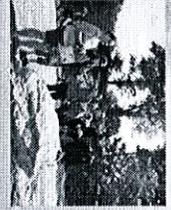
Program Stigflights
Casting & Catching



Getting ready for the big one



6 bags of trash
recycled 4 bags of
plastics and
aluminum



Gorgeous Day

Day at the Lake—FOCUS students

Soils—and Candy bars?

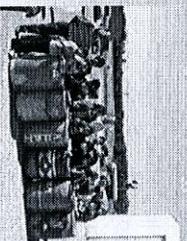


Kickapoo—Earth Festival & Rain barrel Workshop

Water Travels Where?

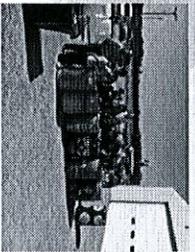


22 Students
65 Adults
Took part in the programs



Amazing artists

40 barrels delivered to
40 homes



**Minutes
ANNUAL MEETING 2012
February 2, 2012
5:30 p.m.**

WELCOME AND INVOCATION:

At 5:30 p.m., John Shidler, Chairperson, welcomed the attendees to the 2012 Annual Meeting. He thanked the group Hardtack for providing music during the meal. He also thanked Cheri Miller and Mary Harry for providing and showing the movie on our district's 2011 events. John reminded everyone about the silent auction. All proceeds go to sponsoring a Day at the Lake Program for special needs High School students, giving them an opportunity to practice skills learned all year long in the classroom. The invocation was given by Marlene Miller. John Shidler: Let's enjoy our meal and the music.

BUSINESS MEETING:

At 7:02p.m., John Shidler called the Annual Meeting of the Wyandotte County Conservation District to order by introducing himself as Chairperson of the Board of Supervisors. John thanked the board members, staff and their families for providing the meal for the evening and for all their assistance in the planning of the annual meeting. John also thanked all those who made donations to the district, which helps provide for educational programs and the annual meeting.

John introduced the Board of Supervisors, the District Manager, and guests. First, our Board of Supervisors – our Vice-Chairperson, Kris Blevins and her husband, Kevin; our Treasurer, David Andevich and his wife, Charlotte; and our board member, Philip Correa, and his wife, Cecilia and board member Victor Whitney and his wife, Carolyn.

Present were our District Manager – Cheri Miller; our District Volunteers Colleen Cook, Esther Stack Janet and Mark Winkler; Lonnie Miller, our Soil Scientist, with Natural Resource Conservation Service; Norma McConkey and Ronda Schuler, with the Farm Service Agency; from the Unified Government Bill Heatherman, Sara Fjell and John Menkus; Missouri River WRAPS coordinator Carl Johnson and his wife Linda, and Jefferson County Conservation District, Chell Lopez, District Manager.

John Shidler read the explanation of meeting requirements and purpose

APPROVAL OF MINUTES

John Shidler told those in attendance that the annual meeting minutes were printed in the annual report on pages 2 and 3. He asked that everyone take a few minutes to read the minutes and asked if there were any additions or corrections. Bob Bradbury noted that a correction was needed for the ten-year service award, that the name should be Philip Correa and not Kris Blevins.

Minutes
ANNUAL MEETING 2012
Continued

2012 Program Highlights

John then asked if there was a motion to approve the minutes with a correction that Philip Correa was awarded the ten-year pen, and not Kris Blevins. A motion to approve the minutes was made by Bob Bradbury, and seconded by Joe Cook. Motion carried.

FINANCIAL REPORT:

Secretary/Treasurer, David Andervich, read the financial report located in the annual report. Then, David asked if there were any corrections from the floor. No corrections were made. A motion to approve the financial report was made by Victor Whitney and Bill Heathermen seconded it. Motion carried.

BOARD MEMBERS COMMENTS:

John Shidler commented on some of the activities that the district was involved in during 2011. We continued to focus on rain barrel and composter workshops. These workshops were held at a variety of locations to afford citizens with ample opportunity to benefit from these conservation methods and tools. If you are interested in obtaining either a rain barrel or a composter, please see Cheri Miller our District Manager after this meeting, or call our office. Colleen Cook gave an overview of the activities for 2011. She also spoke about Cheri's award nomination and the award of Outstanding Earth Team for the District. A video highlighting 2011 programs was shown.

John asked for any questions or comments about any of our activities and programs? There were no questions or comments.

ELECTION OF SUPERVISORS:

Victor Whitney explained the qualifications of the supervisor position and the eligibility requirements for voters. Victor announced that the district board had two positions open and two nominees, Kris Blevins and David Hackathorn, to serve a three-year term as a board supervisor. Victor Whitney asked if there were any nominations from the floor. There were no nominations from the floor. A motion to close the nominations was made by Joe Cook and seconded. The motion carried.

ADJOURNMENT:

John Shidler asked for a motion to adjourn the business portion of the meeting at 7:55. A motion was made by Joe Cook and seconded by Philip Correa. The motion carried.

Rain barrel Programs

Over 125 Rain barrels were placed at homes and community gardens. eight programs were presented on Rain barrels composters and rain gardens. Over 280 people attended these presentations.

Community Gardens

Assisted St. Paul's food pantry with planning, preparing site, arranging tree removal and planting suggestions for their new community garden to help support their food pantry.
Provided soil maps, garden preparations, planting suggestions and rain barrels for a youth home to grow salsa gardens.

Boy Scout Camp BMPs

Designed a Rain garden as a best management practice to alleviate the run off between two campsites. Unique features: included non-flowering plants (due to bees other stinging pollinators), various species grasses, sedges and ferns with different blooming times and a variety of colors.

Site visits

The district made over 30 home and site visits assisting landowners with concerns about: drought, tree health, pasture management, grass plantings, moles, ponds (new and rehabbing existing), erosion concerns, streambank stabilization, stormwater and invasive species.

Urban Lake Monitoring

In a partnership with KDWP and EPA, the district has continued to sample Pierson Lake and Wyandotte County Lake for water quality. Algae, nitrogen, sediment, bacteria and macro invertebrates.

Environmental reviews

The district performed 89 environmental reviews for the Unified Government, KS Dept of Ag-Water Division, Habitat for Humanity and Community Housing of Wyandotte County.

2012 Program Highlights

Minutes
ANNUAL MEETING 2012
Continued

Discover Wild Kansas Speakers Series

New speakers series hosted by the Conservation District, given by local natural resource professionals. Presentations provide an opportunity for residents to learn more about the flora and fauna of Kansas and ask questions of experts. Topics have been about: Fish, Waterfowl, Trees, Native grasses, Soils and Mountain lions.

Neighborhood Programs

District Manager presented conservation programs to Wyandotte County Home Associations and the 78 members in attendance at their meetings.

Wildflower Seed balls

Presented two programs about native grasses and wildflowers to 55 people.

District Manager receives

Kansas Association for Conservation and Environmental Education
Excellence in Conservation Education Award
Agriculture

FSA REPORT:

Norma McConkey with the Farm Service Agency invited those in attendance to call their office if they have any questions about FSA programs.

PRESENTATION OF SERVICE AWARD:

to David Andervich for 25 years of service was made by John Shidler.

PRESENTATION OF 10 YEARS SERVICE AWARD

was given to John Shidler by David Andervich.

PRESENTATION OF YEARS OF SERVICE PLAQUE

to Philip Cornea was given by David Andervich.

ELECTION RESULTS:

Both candidates, Kris Blevins and David Hackathorn, were elected with 24 votes cast.

DOOR PRIZES:

Cheri

PROGRAM:

John Shidler introduced Bill Whinery of the Kansas City Zoo who presented the evening program about Polar bears. John also thanked everyone for attending and supporting the Conservation District.



Statement of Receipts and Expenses

January 1, 2012 through December 31, 2012
Operations Fund

RECEIPTS	
Balance, January 1	\$95,856.69
County Funds	\$42,771.00
State Matching Funds	\$24,261.00
Refunds	\$364.55
Interest	\$51.30
Total Receipts	\$123,764.45
EXPENSES	
Bonds and Insurance	\$0.00
Dues	\$360.00
Employee Benefits	\$11,564.53
Educator	\$3,146.20
Mileage	\$368.83
Office Expenses	\$7,524.53
Professional Services	\$950.00
Workshops and Registrations	\$0.00
Supervisor's Expenses	\$0.00
Taxes	\$15,428.35
Wages	\$34,324.75
Annual Meeting	\$0.00
Total Expenses	\$77,678.27
Ending Balance	\$46,086.18

RECEIPTS	
Balance January 1	1,153.81
Annual Meeting	\$360.00
Recycling Funds	\$0.00
Educator Donations	\$3,957.50
Total Receipts	\$5,471.31
EXPENSES	
Annual Meeting	\$465.00
Educator	\$2,448.89
Office Expenses	\$347.32
Total Expenses	\$3,262.30
Ending Balance Enterprise	\$2,208.01
Ending Balance Operations	\$46,086.18
Ending Cash Balance	\$48,294.19



S.O.I.L.E.

Students Outdoors Investigating the Land

Wyandotte County Conservation District's
New Outdoor Classroom
will make its debut!
Friday April 26, 2013
 9:30 am to 2:30 pm
 At Theodore Walsh Scout Reservation

S.O.I.L.E. will include a half day session of hands-on stations and a half day of field studies.

Students will investigate, as they walk on trails looking for clues; solving mysteries about the lives of the inhabitants, which are apart of the ecosystem we call Kansas.

Students will use tools and practices, which scientists employ when performing their own field studies, to answer *Why and How.*

Appendix A3

Flyers Displayed at Parks Department Noxious Weed Control Sales Desk

Community Police Office

Capt. John Cosgrove..... Commander
jeosgrove@kckcpd.org..... 573-8720

Sgt. Kent Anderson..... Supervisor
Sgt. Sonny Callahan..... Supervisor
Sgt. Ron Lobner..... Supervisor
Sgt. Don Woolley..... Supervisor

The current trend in American policing today is toward the philosophy of Community-Oriented Policing. This strategy focuses on the causes of crime and places an emphasis on integrating policing with the community and the neighborhood.

Community Policing may be an idea that permanently alters traditional policing practices. Its promise lies in its capacity to address a wide range of social and physical problems that contribute to neighborhood crime and fear of crime, and to mobilize individual citizens and numerous public and private agencies in this effort.

The community policing officers regularly attend neighborhood watch meetings, business/merchant association group meetings, meet with citizen activists, church leaders, and other public service agencies and providers. In an effort to improve the overall quality of life in Kansas City, Kansas, the officers network with other police departments and governmental agencies in an effort to address crime, fear of crime, social and physical disorder, neighborhood and community decay.

24 Hour Police Report Desk

573-8680

The Police Report Desk is open 24 hours a day, 7 days a week. The purpose is to provide a convenient location for residents to report misdemeanor crimes such as:

Minor thefts—personal, car or home
Vehicle accident (without injury)
Minor assaults
Misplaced or lost property
Missing persons

Operation Brightside

Kirk Suher..... Executive Director
ksuher@wycokck.org..... 573-8735

Operation Brightside, Inc. is a nonprofit 501c 3 corporation. Programming is implemented with a partnership of local governments, neighborhood groups, residents, civic groups, businesses, and schools. Programming includes:

- Graffiti Abatement
- Litter Prevention
- Beautification
- Waste Reduction

Liveable Neighborhoods, Inc.

Mary Jane Johnson..... Executive Director
mjohnson@wycokck.org..... 573-8737

Liveable Neighborhoods, Inc. is a nonprofit organization funded by Community Development Block Grant Funds.

The Liveable Neighborhoods board meets once a month on the fourth Thursday at the Neighborhood Resource Center. The meetings provide opportunity for open discussion on community wide issues and innovative ideas and successful programs working in other communities.

- Services provided by Liveable Neighborhoods include:
 - Copying and folding service available for meeting notices, newsletters, flyers etc.
 - Provides technical assistance to neighborhood leaders on meeting notices and newsletters. (by appointment only)
 - Computer available for use (with appointment) by neighborhood leaders.
 - Central location for neighborhood leaders to get information.
 - Contact for neighborhood groups to order neighborhood watch signs.
 - Assistance with how to organize your neighborhood.
- Services are provided to neighborhood groups registered with the Liveable Neighborhoods Office.



Neig

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C

460

K.C

Rev

Neighborhood Resource Center Departments

Greg Talkin **Director of NRC**
 E-mail gtalkin@wycokck.org 573-8617

Building Inspection
Anthony Hutchingson, Chief Building Inspector
ahutchingson@wycokck.org 573-8620

- Permits for: Building
 - Electrical
 - Plumbing
 - Mechanical
 - Demolition
 - Excavating
- Plan Reviews.
- Private demolitions.
- Development Review Committee Host.
- Inspections on work performed under permits to verify safety and compliance with codes:
 - Electrical Services
 - Gas Services
 - Rough-Ins (structural, plumbing, electrical & mechanical)
 - Under Slab Plumbing
 - Footings
 - Foundations
 - Decks
 - Finals
 - Certificate of Occupancies, etc.
- Address complaints on work being performed contrary to the Building, Electrical, Plumbing and/or Mechanical Codes.

Business License
Abraham Neal, Interim License Administrator
aneal@wycokck.org 573-8780

- Occupation Taxes/Licenses
 - Business Licenses
 - Garage Sale Permits
 - Taxi Cab License Inspections
 - Alcohol Permits

Code Enforcement
Debi Ward Supervisor
dward@wycokck.org 573-8600
Wayne Wilson Supervisor
wwilson@wycokck.org 573-8600

The Code Enforcement department is responsible for enforcement of the Environmental and Uniform Housing Codes adopted by the Unified Government.

- Basic Property Standards:**
- The structure must be maintained in a safe and sanitary manner and must provide all basic services such as safe electrical, heating and plumbing services and adequate exits, floor space, ventilation and light.
 - The structure must be weather and water tight, porches and stairs must be structurally sound, and any structures must be kept painted to prevent deterioration.
 - The property must be free of trash, vermin and any other health hazard.
 - There must be no inoperable vehicles, appliances or other large salvage items or large equipment stored outside. No vehicle can be parked on an unimproved surface like your lawn.
 - Grass and weeds should not be allowed to grow higher than eight inches.
 - All property must have the address posted with numbers that are at least 3 inches in height.
 - Garbage or trash cannot be set out for collection before 4:00 p.m. on the day prior to the day of collection.

Demolition Program
John Pack Demolition Coordinator
jpack@wycokck.org 573-8647

The focus of the demolition program is to remove structures that are economically unfeasible to repair. There is a legal process that has to be followed that generally can take eight to twelve months before a building can be razed. Structures that are subject to immediate collapse are considered a priority due to safety reasons and can be razed in a much shorter time frame. Although our efforts are to remove a dangerous structure, in a number of instances we are assisting the abatement of drug activity and further decay in a neighborhood.

Rental Licensing & Inspections
Debby Graber Program Coordinator
dgraber@wycokck.org 573-8649

The purpose of the Residential Rental Licensing program is to improve the maintenance of residential rental property throughout the City. The City's Inspections Division will use the Rental Licensing Ordinance to assist in enforcing the City's Housing Code. The annual license fee is \$31.50 for the first unit in each building and \$16.50 for each additional unit in the building. Licenses are issued yearly and are due by May 1st of each year.

- A general list of the most important maintenance requirements includes:
- Operating bathroom
 - Operating kitchen sink
 - Hot & cold running water
 - Safe and operational furnace
 - Electric lighting
 - Connection to a sewage system
 - Not infested with insects or vermin
 - Sound foundation
 - Solid flooring and supports
 - Solid ceilings, roofs, and supports
 - Safe and operational electrical wiring
 - Safe and operational plumbing
 - Maintained doors and windows
 - Maintained paint
 - No fire hazards
 - Free of weeds, junk, and trash
 - Is not overcrowded

311 / Service Request & Information
 To call in a complaint 311

The 311 Center (formerly the Service Request Center) records all requests for service or complaints called into the Center. After the request is documented, 311 will forward it to the proper department for necessary review, action or enforcement.

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/mt2445.pdf

K-State Research and Extension
Strategies to Reduce Spray Drift
www.oznet.ksu.edu/library/ageng2/mt2444.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
Pesticide and Fertilizer Program
109 SW 9th Street, 3rd Floor
Topeka, KS 66612
(785) 296-3786

Protect Sensit



DDC LET YOU DF

www

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, fluroxypyr 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

What is a Watershed?

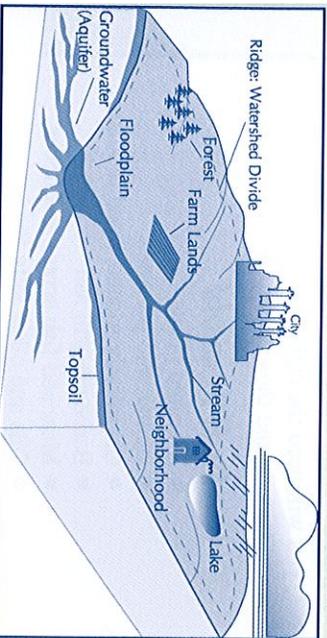
A watershed is an area of land that drains to a common point, such as a nearby creek, stream, river or lake. Every small watershed drains to a larger watershed that eventually flows to the ocean.

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.

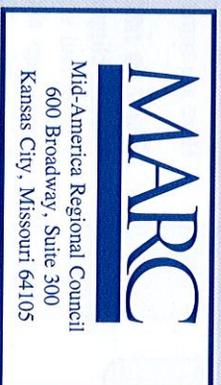
What is Stormwater Runoff?

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



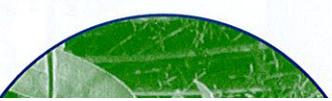
For more information,
visit www.marc.org/water
or call 816/474-4240.

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Autumn Watershed Tip



He
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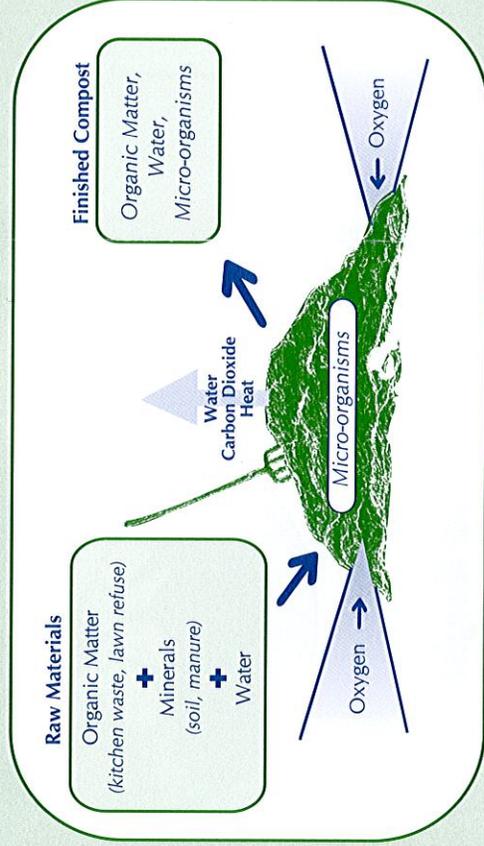
Go
Al

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

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

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.



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.

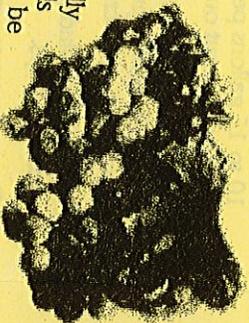
A grape vineyard that is mature and in full production can represent an investment of \$50,000 per acre. One incident of spray drift can destroy the vineyard.

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.



- Watch weather conditions during herbicide application. Herbicides in windy conditions are blown in the direction of wind.
- Spray in the fall if possible. Pasture weeds, such as the herbicide into the roots better in the fall than in many sensitive crops are growing in the fall.



Cooperating Agencies to Go for More In

**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/Pesticide/sensitivecrops.htm

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www.oznet.ksu.edu

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Department of Horticulture,
Forestry, and Recreation Resources**
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**Kansas Grape Growers and
Winemakers Association**
Greg Shippe, President
email: ks_wines@hotmail.com

Kansas Fruit Growers
www.kansasfruitgrowers.com

Kansas Vegetable Growers
Chuck Mart, Secretary
Email: cmart@oznetksu.edu

This brochure is part of the "Good Neighbors" series. Partial funding provided by the North Central Sustainable Agriculture Research and Education Act.



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.rutgers.edu/weeds/index.html or www.psu.edu/fishel/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.

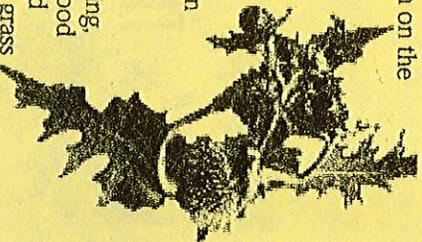
A few weeds, such as musk thistle, can be managed with biological methods, primarily beneficial insects. Scientists and researchers are continually working on improving this method.

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.

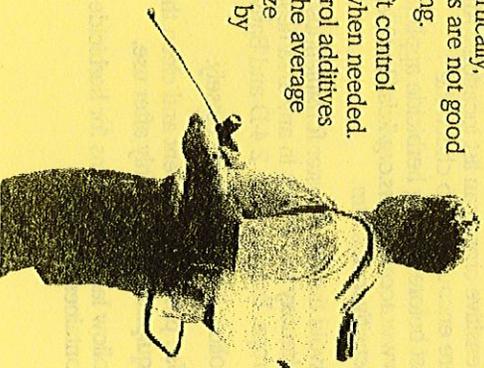
There are two basic types of drift.

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.



What is a Watershed?

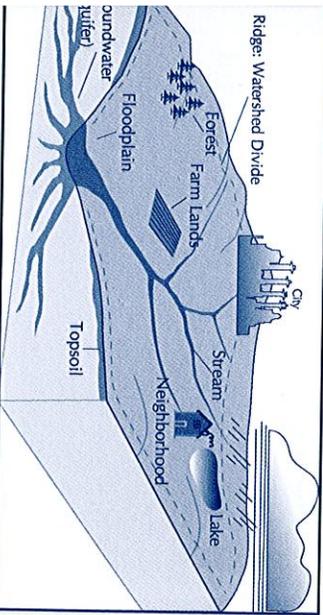
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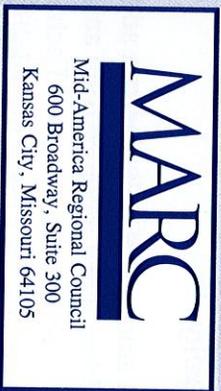
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Polluted stormwater contaminates local waterways. It can harm plants, fish and wildlife, while degrading the quality of water.



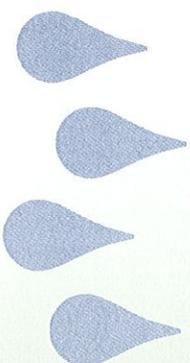
A typical watershed system



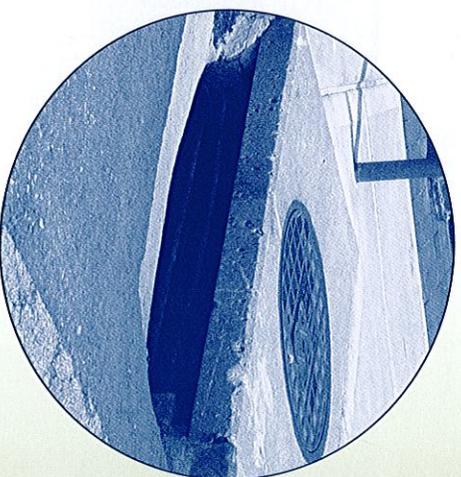
For more information,
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or call 816/474-4240.

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Storm Drain Stewardship



Only rain
should go down
storm drains.



Good Neighbors Care
About Clean Water



The Facts About Storm Drains

What's the Problem?

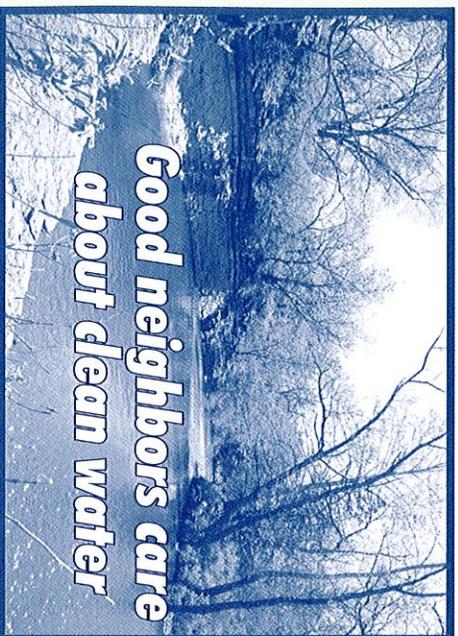
What Can You Do?

What is a Storm Drain?

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

Is a Storm Drain System the same thing as a Sanitary Sewer System?

Sewer systems and storm drain systems are not the same. 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 goes into a storm drain which goes directly to a natural body of water, *untreated*.



While storm drains were designed to divert water from streets, they become dangerous water polluters when harmful substances from lawns and streets flow through them.

During a rainfall, water runs down streets and through yards, picking up substances along the way. This “runoff” often contains elements that pollute our waterways, can harm wildlife, and degrade water quality.

Water that enters storm drains is *not* cleaned at a wastewater treatment plant before it flows directly to streams, rivers and lakes.

Some common contaminants in stormwater include lawn chemicals, pet waste, household chemicals like paint, and soaps used for washing cars. Products advertised as “non-toxic” or “biodegradable” are not typically safe for our waterways either — even small amounts of dirt entering storm drains can affect the water quality.

These small amounts of pollution can add up to a big problem when it comes from an area the size of the Kansas City region. Each storm drain can have harmful effects on wildlife, recreation and forestry.

THIS DRAIN FOR RAIN.

FLOWS TO STREAM.

To help prevent stormwater pollution follow these simple tips:

- 🍷 **Use lawn chemicals safely.** Always follow label instructions and never apply before rain or watering the lawn, unless directed.
- 🐾 **Pick up after your pets.** When walking your pet, remember to bring extra bags to pick up and dispose of waste properly.
- 🛢️ **Recycle used oil.** Never place used motor oil in the trash or pour down storm drains. Visit www.marco.org to find the nearest oil recycling center.
- 🧹 **Sweep driveways and sidewalks clean.** Remove debris and residue that could end up in a storm drain from concrete and paved areas around your house
- 🚗 **Wash your car the right way.** Either wash your car at a car wash that filters the wastewater, or wash your car in a grassy area. Avoid washing your car on a driveway or in the street.
- 🗑️ **Don't dump.** Never discard trash or yard waste down storm drains or in the street.
- 👥 **Storm drain marking.** Join or start a group that attaches markers or paints stencils with anti-dumping messages on storm drains to remind citizens where the water flows.

Appendix A4

UG Public Works Stormwater Website

KANSAS CITY
Official Website of the Unified Government of Wyandotte County and Kansas City, Kansas

Visitors Residents Business Government Departments Employment

Search Thursday, March 14, 2013

3-1-1
Public Works
Stormwater Runoff Management

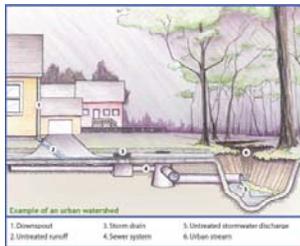
[Home > Departments](#) [More](#) [Share](#) |

Public Works

Stormwater Runoff Management

Sarah Fjell, Stormwater Engineer
Suite 712, 701 N. 7th Street
Phone: 913-573-5400
Fax: 913-573-5435
Email: sfjell@wycokck.org

Office Hours: Monday thru Friday, 8:00 am to 5:00 pm



Above Illustration from Mid American Regional Council, Kansas City, Missouri



Storm Drain

When water falls to the earth as rain, snow or ice; most of it seeps into the ground. If the ground is saturated, frozen, or has a road, sidewalk or paved surface the water flows over land creating what is called stormwater runoff. This stormwater runoff may carry off soil, pet waste, pesticides, fertilizers, oil, litter, and other pollutants into storm drains and it flows directly into local streams, rivers and lakes without treatment.

Will you help reduce stormwater runoff? Click on the items under "What I can Do" to participate.

What Can I Do?

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

Help Identify

- Problems

Stormwater Ordinances For:

- Illicit Discharge
- Construction Sites
- Post Construction

Additional Information

- [Website Links](#)
- [Educational Flyers](#)
- [What Can I Do?](#) (PowerPoint Presentation)



Appendix A5

Blue River Watershed Association Activities



Blue River
Watershed Association

*educating and engaging Kansas Citizens
to restore and protect the Blue River Watershed*

P.O. Box 7276 Kansas City, Missouri 64113
www.brwa.net

Final Report:

Unified Government of Wyandotte County Water Quality Initiatives

2012

Introduction

The Blue River Watershed Association was awarded \$11,300 in funding from the Unified Government of Wyandotte County, Kansas, to support water quality education and outreach programs in Kansas City, Kansas during 2012. This report describes the programs for which funds were provided, describes the activities that were undertaken with funds. This was a very exciting year for BRWA as we continued some great programs in Kansas City, Kansas to reach its residents. BRWA is very happy once again to have met or exceeded all our objectives. We have reached many residents in Kansas City, Kansas during this year and we truly believe we are slowly making a difference in water quality in the metro. As always, we are very grateful for our partnership with the Unified Government of Wyandotte County, Kansas Stormwater Management and look forward to working with you in the future.

The Blue River Watershed Association is a not-for-profit Missouri corporation whose mission is to engage the Kansas City metropolitan community in protecting and restoring the Blue River Watershed through community education and outreach, demonstration projects and strategic partnerships with key stakeholders across the community. The Blue River Watershed encompasses all of the land that drains into the Blue River, which includes more than 270 square miles within the Kansas City metropolitan area, on both sides of the state line. More than 1 million people live, work and play in the Blue River Watershed. Approximately 60% of the Blue River Watershed is located within Johnson County, Kansas.

Funding received by BRWA from the Unified Government of Wyandotte County, Kansas Water Quality Initiative during 2012 were used by BRWA primarily to support education and outreach programs for school children and adults in Kansas City, Kansas. The majority of these funds were used by BRWA to provide its T.R.U.E. Blue Program (Teaching Rivers in an Urban Environment) to students in middle schools and high schools throughout Kansas City, Kansas. We also created two of our Adult Stream Teams in Kansas City, Kansas with great success. So many adults are interested in

monitoring their creek or stream in their neighborhood and this is very exciting.

Funds received from the Unified Government of Wyandotte County, Kansas were used by BRWA to schedule, organize, and conduct events in order to recruit and train adult mentors for the T.R.U.E. Blue Program and Adult Stream Teams.

Outside of these city dollars, there are many, many partnerships that Blue River Watershed Association employees worked side by side with Unified Government of Wyandotte County, Kansas. We are on many committees and groups like, Water Quality Educational Committee through MARC, Heartland Conservation Alliance, Breaking the Silence Conference and many more. These opportunities are partnerships that BRWA participates outside of these grant dollars to show our support. BRWA is also including students who participated in our KC Clean Streams, which is funded by private donors. We are including the schools in Kansas City, Kansas who participated.

In this report you will find all the information that describes each objective and at the end of the report you will find the lists of all the activities, dates and participants. Collaborating with Unified Government of Wyandotte County Stormwater benefits both Kansas City, Kansas, and BRWA by utilizing BRWA's expertise in community education to leverage opportunities for Wyandotte County citizens to gain a better understanding about stormwater quality issues and to promote community ownership of stormwater quality problems, solutions and also enhances your success in reaching students as part of the National Pollution Discharge Elimination System permit.

A. Teaching T.R.U.E. Blue

BRWA taught the T.R.U.E Blue Program to 20 classrooms in schools that serve Kansas City, Kansas. BRWA scheduled the 4-day program for 20 different classrooms in Kansas City, Kansas, grades 5-12. This established program was taught in the classroom by BRWA employees to Kansas City, Kansas students. Since its inception in 1997, BRWA has developed and

refined a unique schools-based water quality education program, known as the T.R.U.E. Blue Program (Teaching Rivers in an Urban Environment). Provided at no cost to community schools, BRWA trains and equips teachers, students and community members to establish school-based water quality monitoring throughout the Blue River Watershed. The T.R.U.E. Blue Program also teaches middle and high school students about the water cycle, the importance of clean water as a natural resource, and the threats to water quality present in our urban environment.

Through its T.R.U.E. Blue Program, BRWA provides access to its water quality monitoring kits and the chemicals and other supplies needed to support water quality monitoring, to teachers who have previously been trained in the program. BRWA also provides adult volunteers, if needed, for class field trips to a local river or stream.

Water quality education and stream monitoring programs are discipline-specific, and are not generally included in standard science texts for middle and high school students in Kansas and Missouri. For this reason, BRWA believes that its T.R.U.E. Blue curriculum is unique, and that it provides a critical learning opportunity for students, teachers and adult volunteers, which will lead to societal behavior changes that will improve water quality in the Blue River Watershed.

Just as important, however, is the service that BRWA provides to teachers who are new to the T.R.U.E. Blue program. Since the curriculum is detailed and somewhat complex, BRWA provides an experienced Educator who not only trains teachers, but also serves as a guest instructor, working with students in both the classroom and in the field. As well, BRWA provides adult volunteers who work with BRWA staff and the teacher in the field, to monitor and assist students in the water quality testing protocol. Finally, many of BRWA's adult volunteers come from the business and municipal sectors of our community, connecting students with the world around them, and underscoring for students the belief that our community does support high-quality education for our children. The T.R.U.E. Blue curriculum is presented to each classroom in four segments:

First, BRWA staff members meet the teacher and spend time teaching students about watersheds, stormwater run-off and the impact people make through their behavior in water quality and about the detrimental effects of pollution on urban rivers and streams.

Second, the students learn how to use the testing equipment. BRWA provides HACH kits to the schools as part of this program. This is one of our major contributions to the program. We have complete HACH kits with instructions available to the students. During this second step, these students learn how to test water in the classroom.

In the **Third** session, the students actually go to a nearby creek or stream and test the water. If needed, BRWA will provide volunteers to help the students in this process. This is where students observe first-hand the adverse effects of pollution on urban streams. At the stream site, students perform a battery of chemical tests on the stream water, as well as record sight and sound observations of the stream setting.

Back in the classroom, students are guided through the **Fourth** session of the T.R.U.E. Blue program by BRWA's Educator. In this step, students are taught how to properly analyze the raw data they collected, in order to determine a water quality index number that indicates the quality of the water they tested. BRWA's Educator then leads a class discussion on the test results, focusing on behavior changes that students should consider that would improve water quality in the metro area.

Materials were provided by BRWA. This program was implemented during 2012. Depending on the classroom sizes, this program should reach anywhere from 500-600 students. This objective also included adult mentoring. With each class there were anywhere from 2-5 adult mentors volunteering their time to work with students at the water testing sites.

BRWA received \$10,000 to cover these expenses which included supplies for the classroom. BRWA reports the following costs associated with this work:

T.R.U.E. Blue Program \$500/per classroom 20 classes	\$10,000
--	----------

Supplies 10 HACH kits @ \$400 each (in-kind)	(\$4,000)
Volunteers/Adult Mentors 100 hours @20.00/hour (in-kind)	(\$2,000)
Funding level:	\$10,000
Overall value to the Unified Government of Wyandotte	\$16,000

B. Adult Stream Teams

BRWA created and trained 2 Adult Monitoring Groups in Kansas City, Kansas to be involved on a continuing basis in monitoring water quality. BRWA reached its goal of teaching 2 adult groups, in Kansas City, Kansas, our TRUE Blue curriculum, and taught them how to monitor water on a regular basis. This is a totally new aspect of our work in and the response has been even greater than anticipated. The idea came from the city of Leawood, where their Green Initiatives Committee wanted to have Stream Teams. We took that idea, and wrote it into our Johnson County SMAC Grant. Leawood was so excited about the program, they have created two Adult Stream Teams and the City of Leawood has purchased two HACH kits so that its residents can check the kits out to test water. So many adults in Kansas love the idea of monitoring their creek or stream on a regular basis. This is the first time for Kansas City, Kansas to have water monitoring teams.

The Adults go through 3 hours of training before they go to the creek. This usually takes place on a Saturday, since many of our Stream Teamers work during the week. Then they test the waters. BRWA workers test with them two more times making sure they know exactly how to test water quality. During the last water testing, the adults also pick up litter in and around their creek or stream.

BRWA worked with residents who lived in areas in Kansas City, Kansas where water quality issues are of extreme importance. BRWA staff taught the program and tested water in a four hour session. Then, the Adult Stream Team met again to test the water two more times, making sure the group knows how to do water monitoring. On the last testing date, the group cleaned up the creek or stream.

BRWA received \$1,300 to cover these expenses, which includes supplies for the training. The following are costs associated with this work:

Stream Team Instruction Expenses:

Organize, identify and teach 2 Monitoring teams three times	\$1,300
Volunteers 10 hours @20.00/hour (in-kind)	(\$200)
Gloves and Trash bags for litter clean ups	(\$200)

Funding level:	\$1,300
Overall value to the City,	\$1,700

Conclusion

Once again, BRWA would like to thank the Unified Government of Wyandotte County for their support and partnership with improving water quality. Overall, BRWA is extremely pleased with and proud of the accomplishments made with funds provided by Unified Government of Wyandotte County's Water Quality Initiative program. In particular, BRWA's T.R.U.E. Blue Program gives students, teachers and adult volunteers who participate, an in-depth understanding of water quality issues present in our urban community. As well, the program gives participants a first-hand opportunity to witness the detrimental effects of pollution on our urban streams and rivers. BRWA believes that this in-depth educational opportunity is particularly likely to lead to behavior change, in the long run, in our community's young people.

We would like to thank you again for your continued support

TRUE Blue (Teaching Rivers in an Urban Environment)
 Water Monitoring Curriculum
 Summary of Work
 January-December, 2012
 Blue River Watershed Association

Month	School	# of Tchrs	School District	# of Volunteers (# of Hours)	# Students	# Classes
April	Eisenhower Middle School	2	Kansas City, Ks	Janice Canady (6) Alan Gilmore (6) Ingrid Setzler (4) Megan McCutcheon (6) Patty Daugherty (4) Clint Sperry (6) Bob Everhart (6) Kevin Brown (6) Molly Adams (6)	184	6
May	Turner Middle School	2	Turner	Jarrold Letcher (6) Bill Blackwell (4) John Menkhus (4) Gary Kannenberg (6) Marlene Callahan (6) Nancy Langley (6) Cathy Jambrosie (6) Mike Medcalf (6)	300	6
August	Wyandotte High School	2	Kansas City, Ks	Susan Robb (4), Linda Lif (4), Shannon Twenter (4), Julie Peterson (4), Katie Smith (4)	87	4
Sept	Arrowhead Middle School	2	Kansas City, Ks	Bill Heatherman (2) Charlotte McDonald (5) Mary Alley (10) Susan Robb (10) Julie Petersen (5) Cosmo Canacari (5) Mary Ann Coleman (5) John Menkhus (2)	102	4
Grand Total	4	8		30 (151)	673	20

Summary of Work for Wyandotte County, Kansas
 January 1, 2012 – December 31, 2012
 Blue River Watershed Association
 Wyandotte County Stream Teams

Stream Team Name	Affiliation	Current Members	Status	Test Site (s)
Kennedy	Wyandotte County Residents	Sharon Kennedy Jacob Blakely Richard Mabion Mike Hotz	First Year Team Kit Training: 9/29/2012 3 Assisted Testings: Ongoing	Big 11 Lake
Snow	Bishop Ward High School	Russ Ringer Tony Snow 15 students	First Year Team Kit Training: NOV. 3 Assisted Testings: Ongoing	Kaw Point

Appendix A6

Public Education & Outreach Summary

2012 Stormwater Outreach Efforts

The Unified Government is required to implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

Mid America Regional Council Water Quality Public Education Program Results.

The Unified Government participates and provides funding for the Kansas City metropolitan regional public education and outreach effort “Good Neighbors Care About Clean Water”. This regional effort is coordinated by the Mid America Regional Council in Kansas City, Missouri. This regional effort uses media advertising, printed materials, internet, and local initiatives.

The storm drain awareness campaign (“*If it’s on the ground, it’s in our water*”) serves as the primary outreach focus, addressing issues such as improperly throwing waste down storm drains, fertilizer runoff and pet waste. Advertising efforts highlighted the connection between certain activities and regional water quality, emphasizing the role of storm drains.

A second campaign drew attention to healthy lawn care (“*Healthy Lawns. Healthy Communities*”) Messages addressed actions that impact both air and water quality, including the use of gas-powered lawn equipment, fertilizing habits and yard waste disposal.

Campaign elements included use of 2 TV commercials produced in 2010 (stormwater spot and healthy lawn spot)

A spring and fall 2012 media campaign was carried out. The campaign consisted of:

- TV commercials on-air with Time Warner Cable, 5 stations.
- Online web ads on 4 local TV stations’ sites and on kansascity.com with an estimated 2 million online impressions.
- Targeted newspaper ads with 15 regional publications with approximately 2 million readers reached.
- Each TV commercial is now available on the Mid America Regional Council’s You Tube account: (www.youtube.com/MARCKCMetro).

A new informational brochure about stormwater was also developed in 2012. It was designed as a tie-in to the media campaign, reiterating both the storm drain and healthy lawn messages.

A public attitude survey was conducted in 2012. Highlights of the survey included:

- 82% of residents are very or somewhat concerned with pollution in lakes, streams and other waterways.
- 47% do not know where stormwater goes after entering storm drains.
- 67% feel water pollution from stormwater runoff is a major or minor problem.

- Regarding development, 89% support requiring conservation of areas along streams, 88% support requiring preservation of trees and natural areas, 83% support adopting plans to restore urban waterways, and 83% support providing incentives to plant native flowers and grasses.
- 88% feel it is important to prevent sewer overflows.
- 78% feel it is important to improve water quality in the community.
- 75% support local government working with other cities and counties to improve water quality.
- Full survey at www.marc.org/Environment/Water/surveys.htm.

Unified Government's Stormwater Webpage.

A webpage has been developed by the Public Works Department of the Unified Government. Through the 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 gives 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. Lastly, the webpage gives residents an opportunity to report any problems that need to be investigated.

Liveable Neighborhoods Task Force Neighborhood Monthly Newsletters.

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

- March edition. Article on going green with lawn care which talked about leaving grass clippings on the lawn, minimizing chemical use, and not blowing clippings into the street.
- March edition. Article about 2012 household hazardous waste disposal schedule.
- March edition. Article about spring open burning instructions.
- April edition. Article about trees being beneficial in numerous ways including reducing soil erosion and related stormwater runoff.
- April edition. Article about 2012 household hazardous waste disposal schedule.
- April edition. Article about spring open burning instructions.
- May edition. Article about proper disposal of used motor oil and petroleum products and their impacts on stormwater runoff.
- May edition. Article about 2012 household hazardous waste disposal schedule.
- June edition. Article about proper handling of pet waste and how it impacts stormwater runoff.
- June edition. Article about 2012 household hazardous waste disposal schedule.
- June edition. Article about reducing the volume of household hazardous waste by using some environmentally friendly products.
- July edition. Article about how washing your car can impact stormwater runoff.
- July edition. Article about reducing the volume of household hazardous waste by using some environmentally friendly products.
- July edition. Article about 2012 household hazardous waste disposal schedule.
- August edition. An article about sediment runoff and how it impacts stormwater runoff with some tips to use.
- August edition. Article about reducing the volume of household hazardous waste by using some environmentally friendly products.
- August edition. Article about 2012 household hazardous waste disposal schedule.
- September edition. Article about 2012 household hazardous waste disposal schedule.
- October edition. Article about leaf management options. Article about open burn. Article about 2012 household hazardous waste disposal schedule.
- November edition. Article about electronics recycling event.

Unified Government Weekly E-Newsletter.

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

- March 20, 2012. Article about going green with lawn care. Included tips about going natural, landscaping with native plants, proper fertilizer use and blowing leaving grass clippings on the street. It promoted the UG stormwater website for more information.
- March 27, 2012. There was an article announcing the 2012 household hazardous waste schedule for Wyandotte County residents.
- April 9, 2012. Article about trees being beneficial in numerous ways including reducing soil erosion and related stormwater runoff.

- May 15, 2012. Article about proper disposal of used motor oil and petroleum products and their impacts on stormwater runoff. This included links to the U.G. stormwater webpage, MARC's 30 second TV commercials, and information about the 2012 household hazardous waste events.
- June 12, 2012. Article about reducing the volume of household hazardous waste by using some environmentally friendly products. This also included a link for more environmental friendly products from the MARC webpage.
- June 19, 2012. An article about proper handling of pet waste and how it impacts stormwater runoff. Additional websites were given for information.
- July 24, 2012. Article about how washing your car can impact stormwater runoff. It also included links to the UG stormwater page and MARC's two TV commercials.
- August 14, 2012. Article about sediment runoff impacts on stormwater.
- October 9, 2012. Article about open burning for leaves.
- October 16, 2012. Article about leaf management options to reduce stormwater runoff pollution.
- November 6, 2012. Article about electronics recycling event.

Information at one local conference.

- We attended the Breaking the Silence Conference held in KCK on March 31, 2012.
- There was a panel discussion on solid waste management.
- There was a table with various stormwater educational materials handed out.

Wyandotte County Extension Office Composting Education:

4/13	Water Rally (158 students)
4/28	Turner Fit 'N Fun Day - booth on composting/starting seeds (158 students)
9/11	New MG Class - Soils & Composting (14 students)
10/17-18	Schlagle Library Outdoor Ecology Classroom (94 students)
11/14	Junction Elementary After School Program (15 Students)

Appendix B1

311 Call Center – KBA Documentation

Storm Water Complaints

KBA-01781

Summary

Requests to repair or service storm sewer pipes or inlets should be referred to the Sewer Maintenance Division as indicated.

Repair or Service Requests, Storm Sewer – Repair requests should be directed to the Sewer Maintenance Division to investigate and correct, callers should be referred to the Sewer Maintenance Division at 573-5535.

Water Backups – Requests will be forwarded to Sewer Maintenance for a response. A crew will be sent out to inspect the city main and clean it if necessary. If there is a blockage in the service line the resident will have to arrange for its cleaning. Ask the caller if water entered the house through a floor drain, through a door or window, or through or underneath the foundation wall:

- If the caller answers yes to the floor drain being the source of water or if the source of the water cannot be determined, this should be considered a backup issue and should be routed to the Sewer Maintenance Division at 573-5535.
- If the caller identifies the source of the water coming from a door or window, or through or underneath the foundation wall; see topic on Flooding Complaints.

Flooding Complaints – Flood complaints and other storm water related issues such as the following should be referred to the Engineering Department switchboard number, 573-5700, and a request should be made for 'the engineer of the month'.

Water entering a house through a door or window causing flooding

- Flooding of a property on the outside of a structure
- Requests for storm sewer extensions

Stream Bank Erosion – This request should be forwarded to Public Works to investigate. The city has over 200 miles of major channels most with very steep slopes. Stream bed and stream bank erosion is common. The Unified Government does not own the channels and has not placed on itself a duty to mitigate the effects of stream bank erosion. For erosion control complaints, callers should be referred to the Engineering Department switchboard number, 573-5700, and a request should be made for 'the engineer of the month'.

New Construction Design Standards – Design guidelines and checklists for new construction are available on the Department of Planning page on the Unified Government website. Specifications for street and sewer construction, including driveways and patching street utility cuts are posted on the Public Works Department page on the Unified Government website. For construction or design standards – refer callers to Dave Clark, Plan Review Engineer 573-5722.

For issues related to **'New Construction Erosion Control'** – please see KBA Article 01783.

Additional Comments

To allow for the most accurate reporting, please code activities for Department, Resolution, Topic, & Type appropriately.

Appendix B2

Household Hazardous Waste Collection Information

Memorandum: Household Hazardous Waste Information-2012

Participation of Residents in Household Hazardous Waste Day.

All the Unified Government staff that worked the 7 events in 2012 finished an 8 hour computer refresher course offered by the Kansas Department of Health & Environment.

In 2012, 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.

There were 1,028 Wyandotte County participants who brought 66,073 pounds or 33.04 tons of household hazardous waste. Since reported is done on KDHE's fiscal year, all of the following numbers are for the time period of July 1, 2011 through June 30, 2012. A breakdown of materials collected includes:

Bulk Latex Paint	28,803
Bulk Used Oil	12,362
Sorted Aerosols	1,548
Bulk Oil Based Paint	13,532
Bulk Fuels/Fuel Blends	2,436
Flammable Solids	22
Spontaneously Combustible	1
Dangerous When Wet	15
Oxidizers	163
Organic Peroxides	3
Poisons	3,796
Corrosives, Acids & Bases	1,881
Batteries, Lead Acid	250
Sorted Batteries NiCd	100
Dry Cell Batteries	698
Lithium Batteries	15
Mercury	8
Fluorescent Bulbs	231
Formaldehyde	1
Propane	136
Fire Extinguishers	66
Helium	<u>6</u>
Total	66,073



LIVEABLE NEIGHBORHOODS
NEIGHBORHOOD NEWS



AUGUST 2012

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.



YouthBuild Kansas City, Kansas is a 15 month comprehensive, human development program providing education enrichment, construction skills and job training to at-risk young adults

between the ages of 16 and 24. Seventy-five percent of YouthBuild Kansas City, Kansas Trainees (program participants) are either from low-income families and/or did not graduate from high school.

Other services provided are:

- G.E.D. instruction classes
- Official Practice Test in preparation for their G.E.D. certificate.
- integrated construction curriculum with a nationally recognized pre-apprenticeship certificate
- Life skills training
- Civic development and leadership
- Random drug testing.
- Modest living allowance /stipend
- Other supportive services
- One year of follow up after program completion

YouthBuild contribution to the community:

- Building new homes for low to moderate income families
- Community service activities
- Building of a Heartland Habitat for Humanity home for 1st time low-income buyers
- American Red Cross, Willa Gill, and various neighborhood association community projects
- Partnerships with Unified Government
- Volunteerism to the community

YouthBuild Kansas City, Kansas operates from a KCK Housing Authority facility located at 1821 North Third Street, 66101, which was renovated by YouthBuild Kansas City, Kansas Trainees. Primary funding is from the Department of Labor.

For more information contact Chandra Ward, Executive Director, at 913-371-3770 or cward@youthbuildkck.org.



Labor Day Impacts Residential Trash & Recycling Services

Deffenbaugh will be observing Monday, September 3, 2012 as a holiday.

Deffenbaugh will not be picking up residential trash or curbside recycling on Labor Day Monday September 3, 2012 in Kansas City, Kansas. Service for both trash pickup and curbside recycling will be impacted the entire week. Monday pickup will be done on Tuesday. Tuesday pickup will be done on Wednesday. Wednesday pickup will be done on Thursday. Thursday pickup will be done on Friday. Friday pickup will be done on Saturday.

There will be no Liveable Neighborhoods meeting in August.

The next meeting will be September 27, 2012 8:30am at the Neighborhood Resource Center.

August Calendar of Events

08/03/2012 - 08/04/2012 FREE Event

Cross-Lines School Supply and School Uniform Distribution
 Cross-Lines Church Sanctuary 632 Pyle KCK (913) 281-3388
 9am-2pm Friday and 9am-12pm Saturday
 You will need: A photo ID, proof of income, proof of Wyandotte County residency and ID for each family member. .

08/03/2012

Li'l Legends Kids Club (Free)
Legends Outlets Kansas City (1843 Village West Parkway)
11:00am to 12:00pm
(913) 788-3700 or www.legendsshopping.com
 A free event hosted by Legends Outlets Kansas City and Radio Disney AM 1190 every first Friday of the month for children 12 and under. The first month's "green" theme will incorporate "recycle crafts." Kids will create something using only aluminum foil and newspaper. Face painters and balloon artists will add more fun to the event.

08/04/2012

Wyandotte County Back to School Fair (FREE Event)
 Kansas City, Kansas Community College (7250 State Ave.)
 9:00am-1:00pm (913) 288-7685
 You will need proof you live in Wyandotte County and children must be present to receive school supplies.

08/10/2012

KCK Second Friday Art Walk
 Downtown KCK 913-371-0024 www.kckartsnetwork.com
 5:00 pm- 8:00 pm Free
 A celebration of art, art spaces and art lovers in downtown Kansas City, Kansas. Several galleries will be included in the art walk.

08/17/2012

Adventures In Learning (Shepherd's Center) Free
 First Baptist Church 29th and Minnesota 9:00 am. - 1:00 pm
 913-281-8908 or www.shepherdscenterkck.org
 Call for a lunch reservation. Join us for adventures in learning. Meet a friend or make a friend.

08/18/2012

LIVE at the Legends Concert Series (Free)
Legends Outlets Kansas City (1843 Village West Parkway)
5:00pm to 8:00pm
(913) 788-3700 or www.legendsshopping.com
 LIVE at The Legends features some of Kansas City's finest local and regional musicians, performing popular classic rock, pop and country hits from the 70's, 80's, 90's and today. The concerts, outdoor patio seating and a brew patio all surround the 60-foot water fountain centerpiece.
 LIVE at The Legends, a FREE summer concert series presented by Providence Medical Center and Saint John Hospital and Jazz: A Louisiana Kitchen.

For more information about events in Wyandotte County go to www.visitkansascityks.com and go to www.wycokck.org and register for the UG E-News.

Local Farmers Markets

Buy fresh, buy local!

Rosedale Farmers Market

May 6 to September 30, Sundays 12-3 p.m.
 340 Southwest Boulevard (corner of Rainbow Blvd and Southwest Blvd)

For more information contact:
www.rosedalefarmersmarket.com
info@rosedalefarmersmarket.com or
 913-677-5097

Grinter House Market

April 14 to October 20, Saturdays
 Grinter House Barn 1400 South 78th Street

For more information contact:
grinter@kshs.org (913) 299-0373

KCK Green Farmers Market

June - September
 Strawberry Hill (6th and Ann)
 Wednesdays 8am-1pm and Saturdays 9am-1pm
 Juniper Gardens (3rd and Richmond)
 Mondays 9:30am - 1pm
 Catholic Charities (2220 Central)
 Tuesdays 9:30am - 1pm
 The market doubles the Senior Vouchers and the SNAP/Vision program.
 For more information contact:
 Rachel at (913) 909-1027

Oak Grove Neighborhood Market

July-September or October
 Sundays 11:30am - 2pm
 North 5th Street and Haskell Ave
 The market accepts Senior Vouchers
 An on-farm market experience. See where your food is grown! Fresh herbs and vegetables grown using organic practices!
 For more information contact:
 Rachel Jefferson at
 913-206-0047 or
 email: iejfarms@live.com





Going Green Corner



Sediment Runoff

The next time it rains, water will run across rooftops, down driveways, streets and across parking lots and yards, picking up substances along the way.

This stormwater runoff collects and transports sediment that enters into storm drains eventually reaching local rivers and streams. Sediment is loose sand, clay, silt and other soil particles. Sediment can come from soil erosion or from decomposition of plants and animals. Sediment fills up storm drains and catch basins which increase the potential for flooding. Water polluted with sediment becomes cloudy as it settles at the bottom of a body of water.

Many residents don't realize how their everyday habits impact our region's water quality. The Environmental Protection Agency lists sediment as the most common pollutant in our streams, rivers, lakes, and reservoirs.

Remember: *if it's on the ground, it's in our water.*

What can we do as residents to reduce sediment?

- Sweep sidewalks and driveways instead of hosing them off. Hosing off these areas will result in sediment running off into streams, rivers, and lakes.
- Use weed-free mulch when reseeding bare spots on your lawn. Use a straw erosion control blanket if restarting or tilling a lawn.
- Put compost or weed-free mulch on your garden to help soil from washing away.
- Avoid mowing within 10 to 25 feet from the edge of a stream or creek. This will help to minimize erosion and naturally filter stormwater runoff containing sediment.
- Either wash your car at a commercial car wash or on a surface that absorbs water, such as grass or gravel.

Source: Operation Brightside

Environmental Friendly Cleaners

Many household cleaning products are considered to be household hazardous waste and should be disposed of properly. We are continuing to look at products that are more environmental friendly. Listed below are some of those recommendations to be used for tub and tile cleaning.

- For prevention, add 2 tablespoons of baking soda to your bath water and you won't have to worry about ring-around-the-tub. Your bath water will be soft, too.
- Sprinkle baking soda like you would a scouring powder. Rub with a damp sponge. Rinse thoroughly.
- Saturate a cloth with vinegar before sprinkling baking soda on the tub. Then clean fiberglass tub with the cloth, no elbow grease is needed. Rinse well and wipe dry for a spotless shine.
- To remove film buildup on bathtubs, apply vinegar full-strength to a sponge and wipe with vinegar first. Next, use baking soda as you would a scouring powder. Rub with a damp sponge and rinse thoroughly with clean water.
- To clean grout, put 3 cups of baking soda into a medium-sized bowl and add 1 cup of warm water. Mix into a smooth paste and scrub into grout with a sponge or toothbrush. Rinse thoroughly and dispose of leftover paste when finished.

Source: Clean and Safe booklet, Regional Prevention Center of Wyandotte County

2012 Household Hazardous Waste Collection Days

The schedule for the Household Hazardous Waste Collection days for Wyandotte County residents has been set for 2012. The site will be open from 8:30 a.m. to 1:00 p.m. on the following Saturdays: August 18, September 15, and October 20. 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.

Back to School: The Way to a Better Future

As you know, it is critical to possess skills and education to compete in today's labor market. The Educational Opportunity Center, a grant program based out of KU and housed in Wyandotte Co, encourages and assists adults to go back to school and assists with securing grants to make it possible. Now is the time to get the word out as most college programs start very soon. If you would like to schedule a program which details Why and How adults can take immediate steps to start an educational or vocational school program, a staff person from the program will present a 45-60 minute Power Point presentation to your neighborhood group or organization. Individuals will receive hand-outs and learn how they can get personal assistance completing the Federal Student Aid application. Please contact Caryl Neinas, Advisor, (cneinas@ku.edu) to schedule a seminar. She will be out of town until August 1 and will respond to you on that date.

Tips for Staying Cool in the Heat

As we are in the work week and we have been seeing a few on-the-job heat related illnesses, we may need to hit the "working outdoor" messages. The Drought and Heat continue to be big stories and the media are doing a lot of stories.

- If you have to work outside or in a non-air-conditioned workplace, take frequent breaks, rest in the shade or cooler environment, and drink plenty of water.
- Check on your neighbors, friends and relatives at least twice a day (morning and night).
- Stay indoors as much as possible during the heat of the day in an air conditioned environment.

We are going to be in it for a long haul. Please keep yourselves safe and healthy.

Source: Unified Government's Emergency Management Department

For a list of cooling centers go to www.wyocck.org/ln or call (913) 573-8737.

Come join the Extension Master Gardener Class of 2012

Master Gardener candidates do *not* have to be gardening experts to enter the program. Some first hand knowledge of gardening basics is helpful but not required.

Extension Master Gardeners are members of this community who have traded K-State classroom training for volunteer time. The group is vast in their horticultural interests. For some they want to know how to improve their lawn, for others it's all about the flowers or veggies. Whatever your horticultural interest.... you will find someone within the group that shares it.

Tuesdays, 9 AM to 4 PM
Sept 11th thru Nov 13th

\$100 fee for MG training & resource materials
Master Gardener candidates receive over 40 hours of basic horticulture training. Courses are taught by *the experts* in their field. All are K-State Research & Extension Specialists or other qualified professionals. Each Tuesday's training includes one morning and one afternoon class.

Course topics included are:

Plant Science
Wildlife Management
Landscape Design
Soils
Flowers -Annuals & Perennials
Fruits
Vegetables
Turf
Trees & Shrubs
Houseplants
Entomology (Insects)
Pesticide Labels
Plant Pathology
Landscape Maintenance



Applications are available at the WYCO Extension office or on-line at www.wyandotte.ksu.edu – lawn & garden. Applications must be received by Sept. 1.

Appendix B3

Operation Brightside Annual Report

2012 Annual Report- Operation Brightside Inc.

The Great American Cleanup is coordinated by Keep America Beautiful nationally. Operation Brightside, Inc. is a local affiliate of KAB. Operation Brightside Inc. 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 May. 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 7,520 GLAD trash bags, 100 color Great American Cleanup posters, 20 large banners, 55 coupons and 144 cases of Pure Life Water. We gave out supplies to those neighborhood groups who requested supplies. As well as giving out Keep America Beautiful GLAD bags, we also distributed trash bags we received from the Unified Government in 2010 that have a stormwater message of not littering to volunteers.

2012 Great American Cleanup Results included:

- There were 45 different cleanup events.
- We estimated that 2,392 volunteers contributed 4,584 hours of cleanup service in the community thru the Great American Cleanup.
- We estimated that 61.81 tons of litter and debris was cleaned during the Great American Cleanup.
- We estimated that 211 miles of streets were cleaned of litter.
- An estimated 5.5 miles of rivers, lakes, stream, and shoreline was cleaned up of litter.
- An estimated 14 acres of park land was cleaned.
- Seven school properties and surrounding neighborhoods were cleaned.

2012 Water Related Cleanup Events:

We assisted Wyandotte High School with bags and pickup of bags for a service day they did on September 29, 2012. It is estimated that 8 students spent 16 hours with cleanup at Big 11 Lake.

We assisted the Healthy Rivers Partnership with UG bags with a stormwater message on them and also with water for a large cleanup they coordinated at Kaw Point Park in KCK. They estimated 800 volunteers at the event cleaning approximately 9 miles of shore along both the Kansas River and the Missouri River. They gathered 6.5 tons of recyclables and 7 tons of trash.

Litter Free Events

In 2012, trash bags with the Unified Government storm water message on them were given for three fishing derbies that were litter free events. 1,200 trash bags with a no littering message on them to be used for cleanup at the fishing derbies. Bags were also sent home with parents of the children who participated in the event. 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 Unified Government Parks Department along with Cabela's hosted a litter free event with their fishing derby at Big 11 Lake. The Leavenworth Road Association also hosted a litter free event at their fishing derby held at the Wyandotte County Lake. An estimated 771 youths participated in these three fishing derby with an estimated 425 adults with them.

School Participation:

In spring 2012 environmental educational materials from KDHE were delivered to local schools. The lessons are in Solid Waste Management. Topics covered include littering, waste, disposal of waste, reducing waste, reusing, recycling, and composting. Two schools, J.F. Kennedy Elementary and Midland Trail Elementary participated. These schools had 31 teachers and 680 students who participated.

In spring 2012 environmental educational materials from KDHE were delivered to local schools. The lessons focused on Household Hazardous Waste for grades 4-8. Topics covered with the Household Hazardous Waste curriculum included definitions of, identification of, health concerns, storage, use, disposal, and reduction of household hazardous waste products. Three schools participated, J.F. Kennedy Elementary, Midland Trail Elementary, and Parker Elementary. These schools had 28 teachers with 627 students involved.

Three schools involved with cleanup activities this spring. They included .F. Kennedy Elementary, Midland Trail Elementary, and Parker Elementary. These three schools had 940 students involved with cleanups in and around their school yards.

In addition, Operation Brightside Inc. gave the Blue River Watershed Association 1,000 storm water no littering message trash bags for Wyandotte County Schools for their 2012 Clean Streams program with schools. There were 1,452 students from 4 schools involved with their Clean Streams program from KCK. Schools participating included: Whittier Elementary, Eisenhower Middle School, Resurrection School, and Turner Middle School.

Appendix C1

Land Disturbance Permits- Inspection Sites and Example
Inspection Report

Unified Government
 Land Disturbance Permits-Issued 2012

PERMITS-OPEN

<u>Site</u>	<u>Permit #</u>	<u>Date Issued</u>	<u>Date Closed</u>
Cerner West Campus	LD 11-62	1/2/2012	
Parallel Senior Villas	LD 12-64	4/2/2012	
KCKCC Field Renovations	LD 12-65	5/24/2012	
Mark Twain Elementary	LD12-70	8/6/2012	
Legends Honda	LD12-71	7/16/2012	
Dollar General Store- 5300 State Ave	LD12-82	10/29/2012	
Epiq Systems	LD12-81	10/29/2012	
7615 Swartz Road Grading	LD12-80	10/24/2012	
KCATA State Ave Corridor	LD12-79	10/12/2012	
Heights at Delaware Ridge	LD12-77	9/17/2012	
Wyandotte MOB	LD12-74	9/4/2012	
Bldg AA-BB Plaza @ Speedway	LD12-73	9/1/2012	
39 Rainbow Phase 2	LD12-72	8/27/2012	
AMR Transport Yard	LD12-75	9/12/2012	
Metal Panels Inc	LD12-83	11/2/2012	
Mill Street Bridge Public Works Project	LD12-85	11/12/2012	
Turkey Creek Restoration Ph.1 Public Works Project	LD12-84	12/1/2012	
Turkey Creek Basin Cherokee Interceptor Public Works Project	LD12-86	11/19/2012	

Erosion and Sediment Control Inspection Report Form

Project Name:	Location:
Date & Time of Inspection:	Inspected By:
Rain in last 24 hrs (inches):	Current Conditions (weather, etc.):

Cause of Inspection: Milestone Complaint Routine Follow Up

Stage of Construction: Pre-Construction Conference Clearing and Grubbing Rough Grading
 Building Construction Finish Grading Final Stabilization

General
 Overall Site Conditions:

Construction Entrances
 Is the entrance clean, with little to no mud, debris, etc. on gravel? YES NO N/A
 Is there evidence of sediment being tracked off site onto public streets? YES NO If YES, type of debris _____
 ACTION NEEDED? YES NO _____

Perimeter Control (Silt Fence/Mulch Berms/Straw Bales)
 Are perimeter controls (silt fences, etc.) properly installed in runoff path and in good condition? YES NO N/A
 Is there evidence of water/sediment getting around or under barrier? YES NO N/A
 Are there areas that need extend or additions to other locations? YES NO N/A
 ACTION NEEDED? YES NO _____

Inlet Protection (sand bags/gutter buddies/ straw wattles)
 Are inlet protectors installed in all inlets and in good condition? YES NO N/A
 Is there ponding water or accumulated sediment at inlet? YES NO N/A
 Is there evidence of water/sediment getting around or under barrier? YES NO N/A
 ACTION NEEDED? YES NO _____

Temporary/Permanent Stabilization
 Are all disturbed/exposed areas (stockpiles, hillsides, individual plots, etc.) that will lie dormant for 3 weeks or more stabilized with seed/straw or mulch? YES NO N/A
 Are all stabilized areas in good condition and not eroding? YES NO N/A
 Do stormwater outfall areas have riprap or concrete (permanent stabilization)? YES NO N/A
 Is at least 70% of area have adequate permanent stabilization? YES NO N/A
 ACTION NEEDED? YES NO _____

Other (Sediment Basins, Stream Crossings, Ditch Checks)
 Conditions of Sediment Basin: Is basin over 1/2 full of sediment? Condition of side slopes? Condition of outfall? In runoff path?

 Condition of Stream Crossings and Ditch Checks:

COMMENTS AND ACTION ITEMS NEEDED

Status of BMP's

1. Steep slope stabilization: Defined as >15% grade and >3 foot elevation difference. Are all elements in place to the extent practicable?
 - a. Top of slope diversion, stabilized and with necessary slope drains.
 - b. Blankets on slope.
 - c. Linear sediment control at toe, with breaks and uphill drains.
 - d. Slope interrupts at 10' vertical interval.
2. Down slope treatment: Is entire down slope perimeter of disturbed area protected with sediment control BMPs? Has accumulated silt been removed?
 - a. Silt fence. Do extents of fence approximate the milestone plan? Is silt fence sliced in, does it face the right way, are stakes spaced 5 feet, does it break at appropriate intervals and ends returned uphill?
 - b. Compost berm. Do extents of compost berm approximate the milestone plan? Does compost berm have minimum 8 inch height.
 - c. Compost sock. Do extents of compost sock approximate the milestone plan? Is compost sock staked at 5 foot intervals?
 - d. Diversion dikes to sediment basin and traps. Do extents of diversion dikes approximate the milestone plan? Are embankments for diversion continuous, are the stabilized with vegetation? Are diversion channels free from rills and gullies?
 - e. Sediment basin. Does location of sediment basin approximate the milestone plan? Is sediment basin embankment free of rills and gullies? Does the basin have an emergency overflow channel, is it at least 10 feet wide and one foot deep, and is the control section level for ___ feet? Does the emergency overflow cross the embankment? Does the sediment basin have a riser with trash rack or a skimmer, is the dewatering system working? (Dewatering should occur in 48 to 72 hours after a storm of 1 inch or greater.) Is there a discrepancy between the plan dimensions of the basin and field-estimated dimensions? If plans call for baffles are they in place? Does the basin have a silt remover marker?
 - f. Sediment trap. Does location of sediment trap approximate the milestone plan? Is sediment trap embankment free from rills and gullies? Does it have a dewatering rock section? Is the dewatering system working? (Dewatering should occur in 48 to 72 hours after a storm of 1 inch or greater.) Does the trap have a silt removal marker?
 - g. Inlet pit. Does location of inlet approximate the milestone plan? Is there a discrepancy between the plan dimensions of the inlet pit and field-estimated dimensions?
3. Stable conveyance. Do the materials and extents of onsite conveyance approximate the mile stone plan? Are there rills and gullies on points of concentrated flow?
4. Upslope Diversion. Do extents of diversion dikes approximate the milestone plan? Are embankments for diversion continuous, are they stabilized with vegetation? Are diversion channels free from rills and gullies? Are they located per plans? Is there evidence of bypass at the inlet of slope drain? Is there rock or other outlet protection for the slope?
5. Good Housekeeping. Is there a construction entry, is rock clean, and is the entry effective? Is there a washout pit, is it signed, is it conveniently located, is it lined? Are there provisions for sediment control of excavation dewatering effluent?

ACTION NEEDED _____

RE-INSPECTION DATE _____

Appendix D1

Turkey Creek Environmental Enhancement Area



**UNIFIED GOVERNMENT OF WYANDOTTE COUNTY
& KANSAS CITY, KANSAS
PUBLIC WORKS DEPARTMENT**

ENGINEERING DIVISION

ONE McDOWELL PLAZA

701 NORTH 7TH STREET, 66101

(913) 573-5700
FAX (913) 573-5727

Flood Reduction Project- Turkey Creek

The Turkey Creek Flood Reduction Project was established by the Kansas City District US Army Corps of Engineers to reduce flooding in the Kansas City Metro area from Turkey Creek. The Unified Government of Wyandotte Co/Kansas City, KS and the City of Kansas City, MO are sponsors of the project and help with both funding and project management.

Turkey Creek is an urban channel that is in both Kansas City, KS and Kansas City, MO and has historically caused multiple instances of flooding in these cities. The project includes multiple sub-projects that were started in 1998 and will continue with construction until 2015.

Project components include hillside interceptors, berms, environmental enhancement area, railroad and bridge widening, and channel protection.





Appendix E1

Street Sweeping Log

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report												
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total	
3	9-Jan	16.00	3-13.	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10-Jan	18.00	3-13.	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	19-Jan	21.00	4-5.	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	20-Jan	27.00	4-6.	11.00	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	23-Jan	31.00	4-6, 4-27	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	24-Jan	25.00	4-7, 4-8	14.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	25-Jan	17.00	4-8, 4-9	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	26-Jan	19	4-9.	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	30-Jan	23	4-9, 4-10	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
Totals:		197.00		82.00	204	108.00		\$1,998.00		\$2,107.08		
					Cubic yds. per Lane Mile	1.036						
					Lane Miles per 8 hour Day	14.593						
					Cost per Lane Mile	\$20.84						
Total Cost For Month:				\$4,105.08								

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report												
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total	
2	23-Feb	28.00	2-2.	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	24-Feb	9.00	2-2.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	24-Feb	43.00	5-17.--5-19.	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	24-Feb	15.00	G	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	26-Feb	6.00	4-18.--4-19	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	27-Feb	3.00	4-17.	2.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	27-Feb	23.00	2-3.	2.50	7.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	28-Feb	33.4	G--3-2	11.00	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	28-Feb	31	5-14--5-19	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	28-Feb	6	4-20, 27th Sorter, Quindaro 22-27th	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	28-Feb	26	2-3, 47th Shawnee Dr.	4.50	13.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	29-Feb	17	G---sec 3-4	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	29-Feb	16	3-2.	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	29-Feb	35	2-4.	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	1-Feb	15	4-11.	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	2-Feb	21	4-11.	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	6-Feb	16	4-11.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	7-Feb	21	4-12.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	9-Feb	22	4-13, 4-14	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	

**Street Division
Sweeping**

3/14/2013

				0	6.00	\$7.00	\$35.00	\$19.51	\$63.35	\$98.35	
4	10-Feb	25	14-Apr	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	15-Feb	41`	4-15.	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	16-Feb	29	4-16, 4-17, Parallel 5th-9th	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
Totals:		440.40		131.00	387	264.00		\$4,877.00		\$5,096.93	
Cubic yds. per Lane Mile				0.879							
Lane Miles per 8 hour Day				13.345							
Cost per Lane Mile				\$22.65							
Total Cost For Month:				\$9,973.93							

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
3	1-Mar	17.00	HR x	3.50	10.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	1-Mar	7.00	3-4, 3-5	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	1-Mar	17.00	2-5.	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	1-Mar	6.00	4-21.	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	1-Mar	28.00	5-20.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	2-Mar	16.00	sec 3-5.	3.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	2-Mar	24.00	5-20.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	2-Mar	21	2-5, 2-6.	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	5-Mar	25	2-7, 2-8	5.50	16.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	5-Mar	17	3-6, 3-7	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	5-Mar	9	3-35, Ruby 14th-9th	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	5-Mar	29	5-20, 5-21	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	5-Mar	5	27th st. north, Parkview 18th to 23rd	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	6-Mar	5	3-6, 3-7	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	6-Mar	20	2-8.	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	6-Mar	30	5-21.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	7-Mar	27	5-9, 5-8, 82nd st, 86th st	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	7-Mar	21	2-8.	5.50	16.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	7-Mar	19	sec, 3-6	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					0	6.00	\$7.00	\$35.00	\$19.51	\$63.35	\$98.35
3	8-Mar	23	sec. 3-6, HR-B	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	9-Mar	23.5	HR-B	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	12-Mar	16.1	HR-B, HR-A	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	12-Mar	21	8-Feb	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12-Mar	5	4-22, 4-23	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	13-Mar	24	2-9,	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	13-Mar	5	4-23, 4-24	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	13-Mar	19.7	HR-A	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	14-Mar	19.8	HR-A, sec 3-9	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	14-Mar	28	9-Feb	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	14-Mar	26	5-9, 5-8	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	15-Mar	24	42nd Swartz to Kansas ave, sec. 2-9	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	15-Mar	31	86th, 82nd, 78th streets	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	15-Mar	37	Dist, 5 area	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	16-Mar	21	55th County Ln to Kansas ave.	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	19-Mar	14	sec. 3-9	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	03/19*201	5	4-24, 4-25, 50th State	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	19-Mar	21	5-2, 5-3	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	20-Mar	13.8	3-36.	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	20-Mar	15.7	3-37.	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	20-Mar	21	5-2, 5-4	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					0	5.00	\$7.00	\$35.00	\$19.51	\$97.55	\$132.55
4	20-Mar	6	4-26, 4-27	10	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	21-Mar	13.2	3-37.	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	21-Mar	19	Armstrong 11th-18th, 3-36, 3-38	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	21-Mar	4	5-4, 5-5	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	22-Mar	28	4-30,	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	22-Mar	4.2	sec. 3-9	0	0	4.00	\$30.00	\$120.00	\$19.51	\$78.04	\$198.04
					0	4.00	\$7.00	\$28.00	\$19.51	\$78.04	\$106.04
5	22-Mar	25	5-5, 5-6	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	23-Mar	14.7	3-24,	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	23-Mar	11.7	3-20.	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	23-Mar	27	4-31.	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	23-Mar	15	5-20.	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	23-Mar	26	5-6, 5-7	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Mar	14	3-34.	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Mar	17.1	3-20.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	26-Mar	22	Kansas ave. 55th-18th	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	26-Mar	5	4-33.	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	26-Mar	28	5-7.--5-8.	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Mar	16	3-25.	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	27-Mar	10	3-20, 3-21	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	27-Mar	15	Kansas ave 55th-26th	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	27-Mar	32	110th State to Parallel, 5-8	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

4	27-Mar	30	4-34, 4-35	6	0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
					18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	28-Mar	25.8	3-21, 3-25	11	33	12.00	\$30.00	\$360.00	\$19.51	\$234.12	\$594.12
					0	12.00	\$7.00	\$84.00	\$19.51	\$234.12	\$318.12
4	28-Mar	24	4-36, 4-37	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	28-Mar	26	5-8, 5-22	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	29-Mar	22	4-37.	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	29-Mar	23	38th State area	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	29-Mar	13	Kansas ave. 55th -26th	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	29-Mar	22	3-23, 3-21. 3-22	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2/3/5.	30-Mar	67	2-15//3-22, 3-23// village west	18	54	24.00	\$30.00	\$720.00	\$19.51	\$468.24	\$1,188.24
					0	24.00	\$7.00	\$168.00	\$19.51	\$468.24	\$636.24
					0						
Totals:		1363.30		330.50	982.5	883.00		\$16,340.00		\$17,173.62	
Cubic yds. per Lane Mile					0.721						
Lane Miles per 8 hour Day					12.352						
Cost per Lane Mile					\$24.58						
Total Cost For Month:				\$33,513.62							

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
4	2-Apr	36.00	4-37, 4-38, 4-39	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	2-Apr	8.00	40985.00	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	2-Apr	24.00	2-15.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	3-Apr	9.00	40954.00	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	4-Apr	26.00	47th Shawnee, 18th Merriam, 2-14	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	4-Apr	23.00	4-29.	3.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	5-Apr	22.00	2-14.	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	9-Apr	17	Shawnee, Swartz 42nd-I-635, Strong	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10-Apr	18	3-16.	3.00	9	6.00	\$6.00	\$36.00	\$19.51	\$117.06	\$153.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	10-Apr	19	2-1.	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11-Apr	18	2-1.	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12-Apr	32	4-40, 4-41	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	12-Apr	19	2-2.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	13-Apr	19	2-Feb	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	13-Apr	17	4-41, Farrow 27th-34	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	13-Apr	29	State 38th-69th, State 72nd- V.W	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	16-Apr	29	State 72nd-Village West	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	16-Apr	15	2-3.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	17-Apr	35	2-3.	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					0	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
5	17-Apr	33	Village West area	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	18-Apr	27	Piper area	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	18-Apr	30	Parralel 77th K-7	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	19-Apr	31	State 72nd-130th	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	19-Apr	38	Leav rd. Hutton-91st	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	20-Apr	34	State 72nd-130th, 118th Parallel-State	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	20-Apr	17	2-6.	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	23-Apr	15	2-5.	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	24-Apr	19	94th Par-State,90th Par-State,82nd	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	24-Apr	14	2-5, 2-9	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	24-Apr	10	City Hall area	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	25-Apr	25	78th Parallel-K-32	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	25-Apr	16	2-9.	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	26-Apr	28	75th Par-K-32, Riverview 65th 85th	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Apr	16	3-11, City Hall area	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	26-Apr	18	2-9, 2-8	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	27-Apr	19	7th st Pacific-S.W. Blvd	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	27-Apr	24	I-435 and Holiday area	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	30-Apr	23	2-8.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	30-Apr	20	4-42, 4-44	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	30-Apr	19	Riverview 65th-86th, Village West	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
				0						
Totals:	891.00		148.00	435	480.00		\$8,694.00		\$9,247.74	
				Cubic yds. per Lane Mile	0.488					
				Lane Miles per 8 hour Day	14.850					
				Cost per Lane Mile	\$20.14					
				Total Cost For Month:	\$17,941.74					

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
5	1-May	29.00	Riverview 65th-86th, Kan ave K-32-94th	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	1-May	24.00	2-8, 2-15	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	1-May	32.00	4-44, 4-45	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	2-May	25.00	Kan ave K-32-94th,Swartz K-32-78th	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	2-May	25.00	2-15,	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	3-May	20.00	10th-13th Wash Blvd area	4.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	3-May	14.00	2-14, 2-15	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	3-May	34	4-45, 4-46	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	4-May	25	4-46, 4-47	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	7-May	27	3-32.	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	7-May	34	88th K-32, Gibbs and Midwest area	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	7-May	20	2-14, Steele 14th-34th	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	8-May	30	Shawnee dr. 42nd-County Ln.	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	8-May	18	3-31,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	9-May	16	Dist 3 area	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	9-May	23	2-4.	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	10-May	24	2-5.	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11-May	32	4-46,4-47,4-48	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	14-May	17	3-22.	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					0	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
4	14-May	38	4-49,4-51	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	15-May	9	3-33.	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	15-May	19	5-30.	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	15-May	30	4-50, 4-51	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	16-May	23	2-12, 2-13	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	16-May	14	3-33.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	16-May	39	4-50, 4-52	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	17-May	16	2-12.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	17-May	17	3-33.	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	17-May	40	4-52, 4-53	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	18-May	23	3-33.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	18-May	42	4-53,4-54-4-55	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	21-May	36	4-56,	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	22-May	16	4-1.	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	23-May	26	4-1, 4-2	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	24-May	27	4-2,	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	24-May	19	State ave area	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	25-May	27	4-3, 4-4	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	25-May	20	State 91st - Village West	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	29-May	11	Fairfax area	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	29-May	28	4-4, 4-5	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	30-May	23	5-Apr	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	31-May	16	Fairfax area	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	31-May	32	4-37, 4-37	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
				0							
Totals:		1060.00		164.00	480	516.00		\$9,504.00		\$9,950.10	
				Cubic yds. per Lane Mile	0.453						
				Lane Miles per 8 hour Day	16.434						
				Cost per Lane Mile	\$18.35						
Total Cost For Month:				\$19,454.10							

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report												
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total	
4	1-Jun	22.00	4-6, 4-7	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	5-Jun	6.00	4-6,	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	7-Jun	23.00	4-7, 4-8	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	8-Jun	18.00	4-8, 4-8	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11-Jun	27.00	4-10,4-9	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	11-Jun	33.00	5-25, 5-26	2.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	12-Jun	31.00	5-24, 5-26	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	12-Jun	23	4-10, 4-11	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	13-Jun	28	5-24, 5-27,	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	13-Jun	14	4-11,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	14-Jun	27	5-28, 5-29	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	14-Jun	15	13th Quindaro-state	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	14-Jun	26	4-11, 4-12	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	15-Jun	33	18th parallel area	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	18-Jun	22	4-13, 4-14	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	18-Jun	29	30-May	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	19-Jun	24	14-Apr	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	19-Jun	37	Bonner Park, 5-21	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	20-Jun	18	Central to S.w. blvd	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	

**Street Division
Sweeping**

3/14/2013

					0	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
5	20-Jun	29	5-20, 5-21	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	21-Jun	36	5-20, 5-22	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	21-Jun	34	4-14, Leav rd. 38-99th	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	22-Jun	18	3-10.	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	22-Jun	36	1st-38th thru streets	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	25-Jun	26	4-14, 4-15	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	26-Jun	23	4-16, 4-17	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Jun	26	3-20, 3-19	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	26-Jun	29	sec. 5-4, 5-22	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
					0						
Totals:		713.00		113.00	333	336.00		\$6,174.00		\$6,438.30	
Cubic yds. per Lane Mile					0.467						
Lane Miles per 8 hour Day					16.976						
Cost per Lane Mile					\$17.69						
Total Cost For Month:		\$12,612.30									

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
5	2-Jul	26.00	State 69th-118th, College State- Paralle	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	5-Jul	26.00	2-2.	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	5-Jul	15.00	Dist. 3 area	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	5-Jul	39.00	4-51.	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	6-Jul	38.00	4-52.	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	6-Jul	9.00	3-3.	1.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	6-Jul	12.00	2-2,	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	9-Jul	13	2-2,	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	9-Jul	18	3-3, 3-4	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	9-Jul	26	4-18, 4-19	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	9-Jul	29	5-24, 5-25	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10-Jul	22	4-19, 4-20	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11-Jul	10	2-3,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	16-Jul	10	3-17,	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	16-Jul	18	2-3,	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	17-Jul	21	21-Apr	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	18-Jul	32	Quindaro area	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	19-Jul	15	2-15,	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	19-Jul	26	Dist 4 area	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					0	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
4	20-Jul	29	5th Quindaro area	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	23-Jul	14	2-15,	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	24-Jul	15	2-14,	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	24-Jul	29	4-22, 4-23	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	25-Jul	12	3-38, 3-39	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	25-Jul	33	4-23, State Line-Rainbow,47th Adams	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	25-Jul	12	Rainbow S.W. blve to county line	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	26-Jul	17	3-39, 3-40	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	26-Jul	12	Dist 3 area	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	27-Jul	23	3rd Minn., Wash Blvd. 18-4th	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	27-Jul	15	3-40,	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	30-Jul	18	3-37, United Way parking lot	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	30-Jul	19	4-23,4-24,4-25	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	30-Jul	15	2-14, 2-8	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	31-Jul	13	2-8,	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	31-Jul	24	4-25, 4-26	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
					0						
Totals:		705.00		103.00	306	420.00		\$7,728.00		\$8,077.14	
Cubic yds. per Lane Mile					0.434						
Lane Miles per 8 hour Day					13.429						
Cost per Lane Mile					\$22.42						
Total Cost For Month:				\$15,805.14							

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
4	1-Aug	25.00	4-26, 4-27	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	2-Aug	23.00	4-28, 4-29	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	2-Aug	13.00	3-20,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	3-Aug	16.00	Turner area	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	3-Aug	20.00	3-20,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	6-Aug	27.00	Paralell 5th-47th, 4--1	2.00	0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	7-Aug	15.00	City Hall, Bridges 7th, Mill, 10th	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	7-Aug	9	4-1, 4-2	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	13-Aug	24	4-2,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	14-Aug	56	4-2, 4-3, 4-4, 53rd Nogard	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	16-Aug	24	4-4, 4-5	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	17-Aug	22	4-5, 50th State	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	17-Aug	32	2-1, 2-4	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	20-Aug	27	4-5, 4-6	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	21-Aug	26	4-6,	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	22-Aug	20	42nd Kansas-Swartz	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	23-Aug	38	4-50,	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	23-Aug	20	Argentine and Turner area	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	27-Aug	13	State ave 5th-38th	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

				0	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00	
3	28-Aug	12	18-Mar	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	29-Aug	23	South end Bridges	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	29-Aug	20	Highland Crest area	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	30-Aug	26	South and North Bridges	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
				0	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
				0							
Totals:		531.00		87.00	255	276.00		\$5,064.00		\$5,267.70	
				Cubic yds. per Lane Mile	0.480						
				Lane Miles per 8 hour Day	15.391						
				Cost per Lane Mile	\$19.46						
				Total Cost For Month:	\$10,331.70						

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
2	9/4/12		Goddard Bridge-Strong to 26th	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
			22nd-Steele to Met			6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
			Swartz and 635				\$30.00	\$0.00	\$19.51	\$0.00	\$0.00
3	9/4/12	28.00	North Bridges	1.50	4.5	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/4/12	13.00	4-9,4-10	2.00	6	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
5	9/4/12	20.00	State-38th to College Pkwy	2.00	6	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
			College-State to Parallel			6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/5/12		2-12	7.00	21	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/6/12		2-12,2-13	3.00	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/6/12	9.00	4-10,4-11	1.00	3	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/7/12	22	Central Parade Route	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/7/12		4-11	2.00	6	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/10/12	17	3-20	6.00	18	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/10/12		4-12	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/11/12	19	3-20,3-19	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/11/12	25	4-13,4-15	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/12/12	18	3-19	5.00	15	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/12/12	23	4-15,4-14	5.00	15	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/13/12	20	2-13	5.00	15	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/13/12	17	3-18	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/13/12	26	4-14	4.00	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

2	9/14/12	28	2-9	5	15	6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/14/12	18	3-18	5	15	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/14/12	25	4-16,4-17	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/17/12	19	2-9,2-8	6	18	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/17/12	16	3-17, Minnesota, Wash.	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/17/12	27	4-18,4-19	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/18/12	26	2-8	6	18	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/18/12	15	3-17	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/18/12	26	4-20,4-21	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/19/12	22.7	2-8	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/19/12	17	3-16	6	18	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
5	9/19/12	21	WPC lot	9	27	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/20/12	29.8	2-8,2-7	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/20/12	14	3-15	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/21/12	10	3-15	2	6	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/25/12	28.5	2-7,2-3	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/25/12	16	3-14	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/25/12	26	4-21,4-22	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/24/12	20	3-15,3-14	2.5	7.5	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/26/12	13	3-14	3.5	10.5	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/26/12	18	4-23,4-24	5	15	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

2	9/27/12	19.5	2-3	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
3	9/27/12	18	3-18	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/27/12	27	4-25,4-26	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
2	9/28/12	27.4	2-3	2	6	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
4	9/28/12	4	4-26,4-27	4	12	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
					0						
Totals:		788.90		172.50	517.5	528.00		\$9,726.00		\$10,184.22	
					Cubic yds. per Lane Mile	0.656					
					Lane Miles per 8 hour Day	11.953					
					Cost per Lane Mile	\$25.24					
					Total Cost For Month:	\$19,910.22					

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report												
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total	
2	10/1/12	10.50	2-3	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10/1/12		3-18	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	10/1/12	20.00	4-28,4-29	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	10/1/12	10.00	5-9, 78th Riverview to Parallel	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/2/12	30.00	2-3,2-2	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	10/2/12		47th medials, 5-47	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/3/12	16.60	2-2	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10/3/12	8	N 17th and N 16th	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/4/12	22.1	Strong, Met, and 32nd Strong	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10/4/12	16	3-11	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	10/4/12	22	4-29	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/5/12	20	2-2,2-1	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	10/5/12	16	4-30	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/8/12	33	2-1,2-14	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10/8/12	18	3-10	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	10/8/12		4-30	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/9/12	30	2-14,2-15	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	10/9/12	15	3-9	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	10/10/12	21	2-15	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	

**Street Division
Sweeping**

3/14/2013

						6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
3	10/10/12	16	3-9	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/12/12	11	50th and State	2.5	7.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/15/12	16	3-8	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/16/12	14	3-8	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/17/12	14	3-7, 9th and State Lot	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	10/17/12	29	5-7	5	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/18/12	19	3-7	7.5	22.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/23/12	16		4.5	13.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10/23/12	26	4-1	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/24/12	19	7th Sunshine to SWBLVD	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10/24/12		4-1	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/25/12	13	Fairfax to SWBLVD	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/26/12	17	3-6	6.5	19.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	10/29/12	16	2-1	11	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/29/12	16	3-5	7.5	22.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10/29/12		4-1,4-2	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	10/30/12		2-1	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/30/12	19	3-5	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10/30/12	28	4-1,4-2	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	10/31/12		3-4	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	10/31/12	22	4-2	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

					6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
				0						
Totals:	619.20		203.50	610.5	480.00		\$8,838.00		\$9,247.74	
Cubic yds. per Lane Mile										
0.986										
Lane Miles per 8 hour Day										
10.320										
Cost per Lane Mile										
\$29.21										
Total Cost For Month:										
\$18,085.74										

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report												
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total	
4	11/1/12	17.00	4-51	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/1/12	25.00	4-2,4-3	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/2/12	23.00	4-51,4-50	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/5/12	18.00	3-31	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/5/12		3-33	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/5/12	24.00	4-3,4-4	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/5/12	32.00	4-50,4-49	3.00	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	11/5/12		5-1,5-2	10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/6/12		10th st Montana to KS Ave	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/6/12		3-31	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/6/12	27	4-4	10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/6/12	29	4-48,4-47	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
5	11/6/12	6	5-3	10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
2	11/7/12	20	2-2	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/7/12	25	3-31	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/7/12		Kansas Ave 10th to 18th	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/7/12	23	4-4,4-5	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
4	11/7/12	40	4-47,4-46	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06	
3	11/8/12	16	3-32	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06	

**Street Division
Sweeping**

3/14/2013

						6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
3	11/8/12		3-33	7	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/9/12		2-2	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	11/9/12	11	3-32	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/13/12		2-2	12	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/13/12	40	5-4,5-5	21	63	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/14/12	19	2-3	10	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/14/12	28	4-46,4-45	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/15/12	26	2-3	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/15/12	30	4-45	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/15/12	14	5-5,5-6	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/16/12	13	2-3	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	11/16/12	16	7th and 6th state to central	1.5	4.5	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/16/12	27	4-44	11	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/19/12	34.2	2-7,2-8	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/19/12	16	4-5	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/19/12	14	5-6	12	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/20/12	24.5	2-8, 45th and Douglas	11	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/20/12		4-5	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/20/12	21	5-6,5-7	12	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/21/12		2-8	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
2	11/26/12	28.9	2-8,2-9	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

4	11/26/12	35	4-43	3	9	6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
						6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/26/12	26	4-6	10	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/26/12	16	5-6,5-7	13	39	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	11/27/12	12	Bike Path	2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/27/12		4-6,4-7		0	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/27/12	27	4-42	11	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/27/12	15	5-7,5-8	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/28/12	31	4-42,4-41	12	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/28/12	16	5-8	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	11/29/12	20	City Hall	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/29/12	39	4-40	8	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	11/29/12	17	5-8,5-9	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	11/30/12	10	Met 7th to 14th, 12th St Bridge	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	11/30/12	23	4-39	4	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
					0						
Totals:		974.60		425.50	1276.5	648.00		\$11,946.00		\$12,525.42	
Cubic yds. per Lane Mile					1.310						
Lane Miles per 8 hour Day					12.032						
Cost per Lane Mile					\$25.11						
Total Cost For Month: \$24,471.42											

**Street Division
Sweeping**

3/14/2013

Monthly Sweeping Report											
District	Date	Lane Miles	Maps/Locations	Loads Collected	Est. Mat. In Cu.Yds.	Working Hours	Eq. Cost/Hr	Daily Eq. Cost	Emp. Cost/Hr	Daily Emp. Cost	Daily Total
3	12/3/12	15.00	7th to 14th Met to Douglas	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/3/12	23.00	4-7	8.00	24	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/3/12	29.00	4-39	9.00	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/4/12	28.00	4-38	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/4/12	30.00	5-30	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	12/5/12	17.00		10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/5/12	20.00	4-37	11.00	33	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/5/12	13	5-9	7.00	21	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/5/12	38	5-28,5-29	2.00	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	12/6/12	16	Minnesota and Mill	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/6/12	25	4-37	10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/6/12	25	5-27,5-26,5-25	1.00	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/6/12	26	5-9,5-10	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/9/12	33	4-36	6.00	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/10/12	43	4-35	4.00	12	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/10/12	21	4-8	10.00	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/10/12	38	5-24	5.00	15	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/11/12	41	4-34	12.00	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/11/12		78th and Riverview	1	3	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06

**Street Division
Sweeping**

3/14/2013

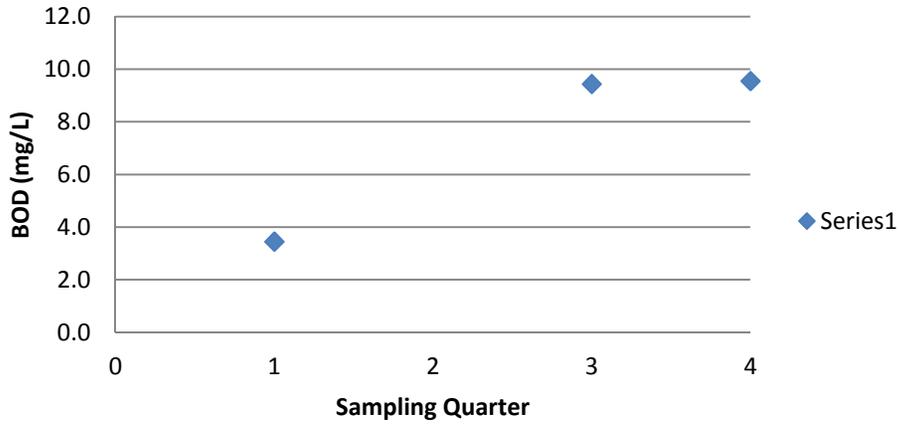
						6.00	\$7.00	\$0.00	\$19.51	\$0.00	\$0.00
4	12/12/12	18	4-8,4-9	6	18	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/13/12		4-32,4-33	12	36	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/13/12	24	5-22	9	27	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
3	12/14/12	14		2	6	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
4	12/14/12	27	4-34,4-33	10	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/14/12	34	Dist 5 Bridges	3	9	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
5	12/18/12	28	5-21,5-20	10	30	6.00	\$30.00	\$180.00	\$19.51	\$117.06	\$297.06
						6.00	\$7.00	\$42.00	\$19.51	\$117.06	\$159.06
					0						
Totals:		626.00		175.00	525	312.00		\$5,730.00		\$5,970.06	
				Cubic yds. per Lane Mile	0.839						
				Lane Miles per 8 hour Day	16.051						
				Cost per Lane Mile	\$18.69						
				Total Cost For Month:	\$11,700.06						

Appendix F1

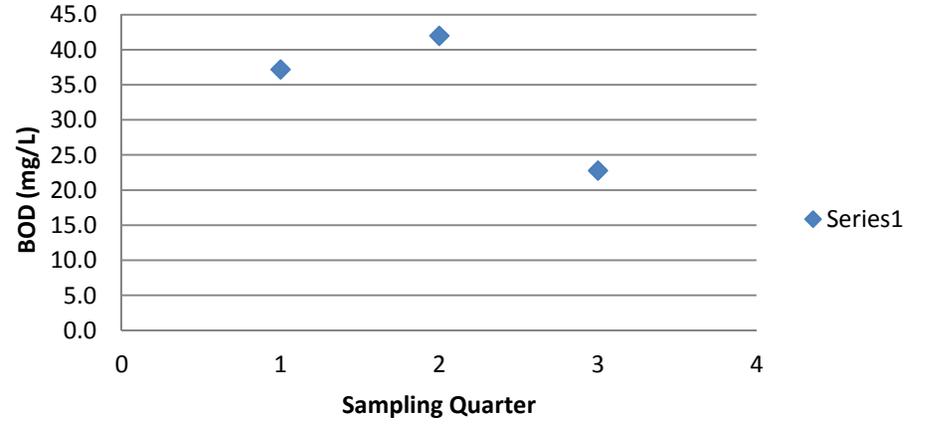
Stormwater Monitoring Results

2012 BOD Results

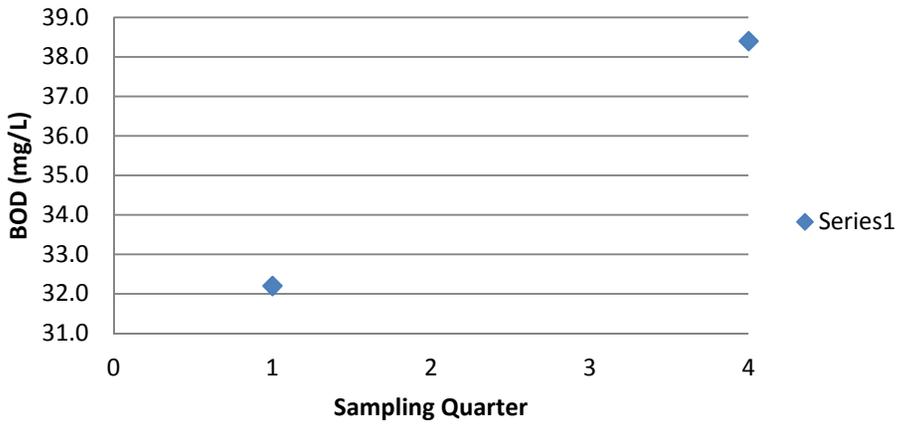
R1-BOD



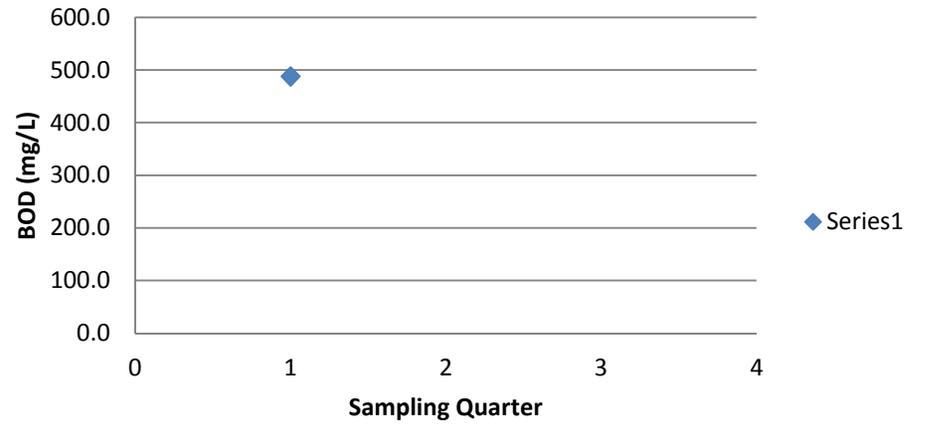
R4-BOD



R2-BOD

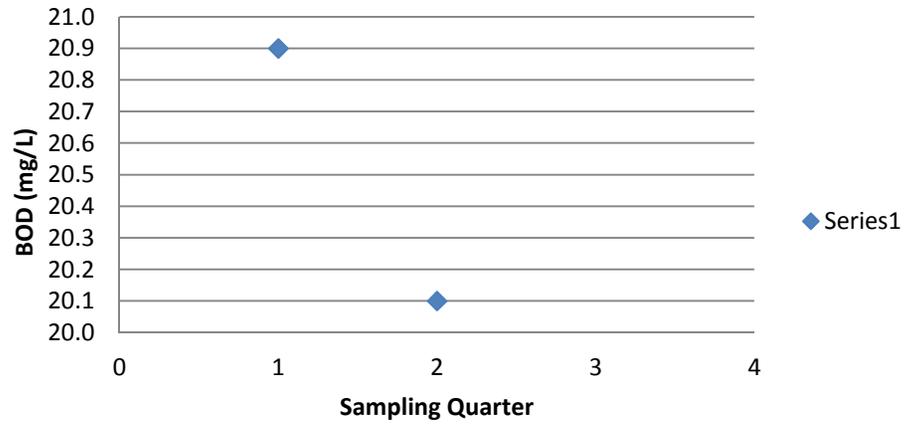


R5-BOD

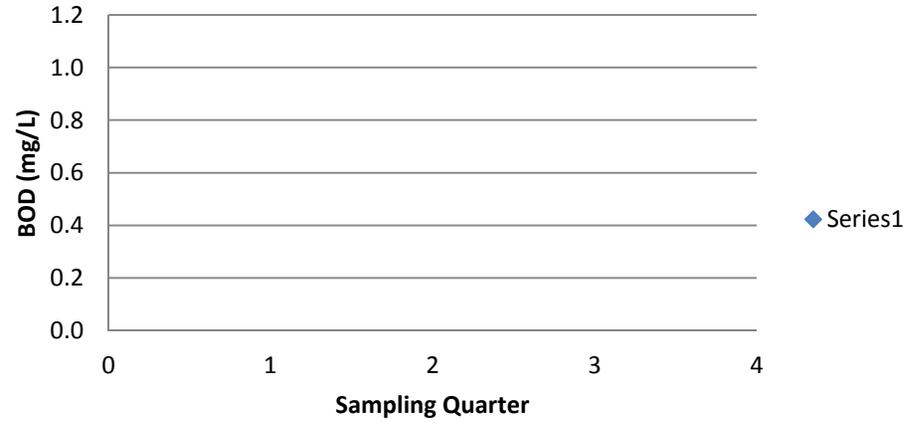


2012 BOD Results

R3-BOD

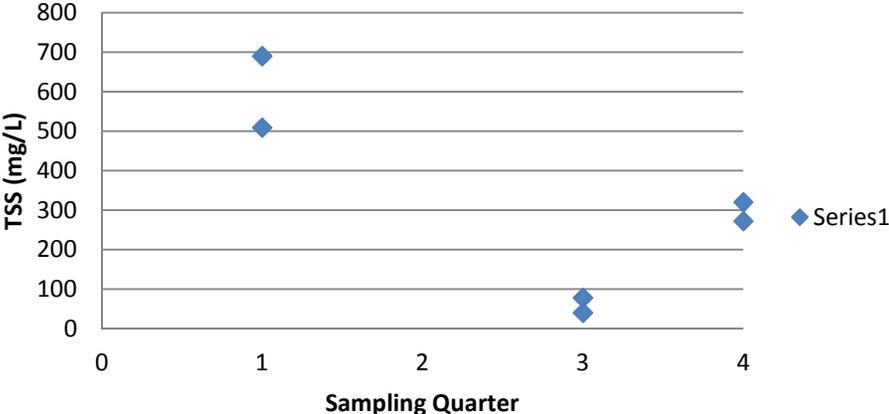


R7-BOD

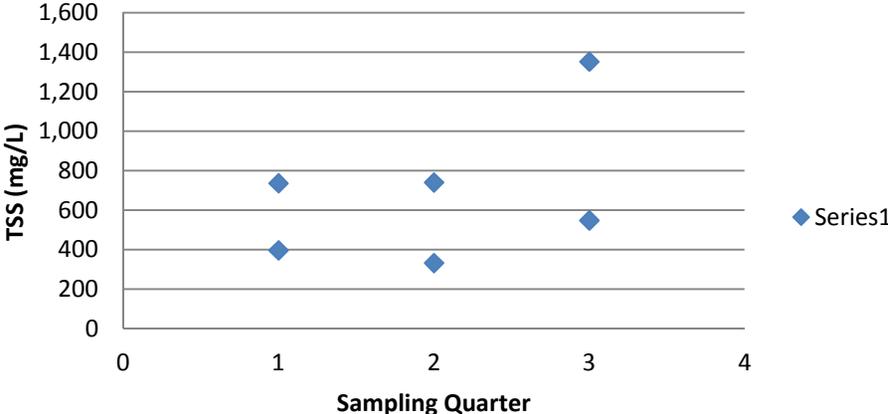


2012 TSS Results

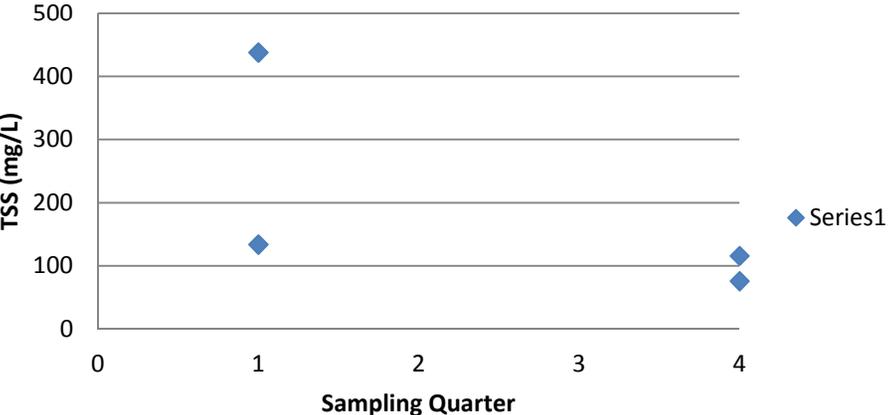
R1-TSS



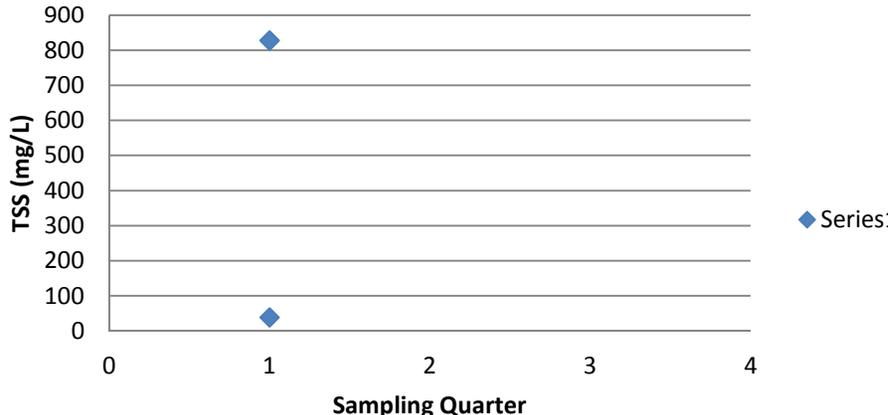
R4-TSS



R2-TSS

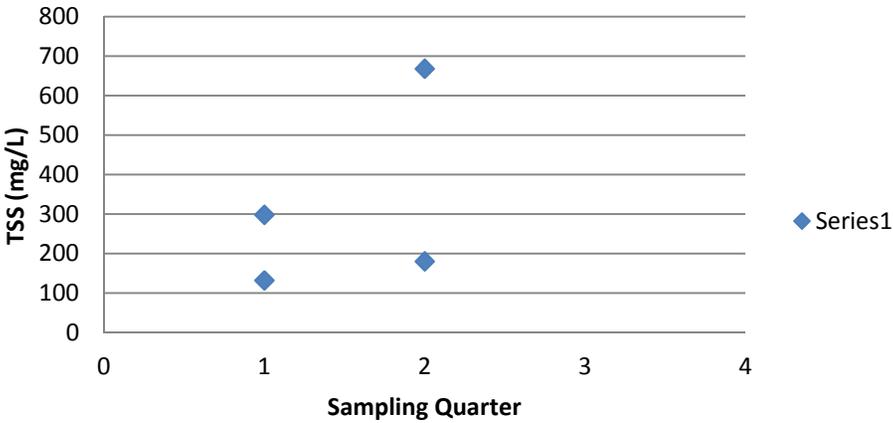


R5-TSS

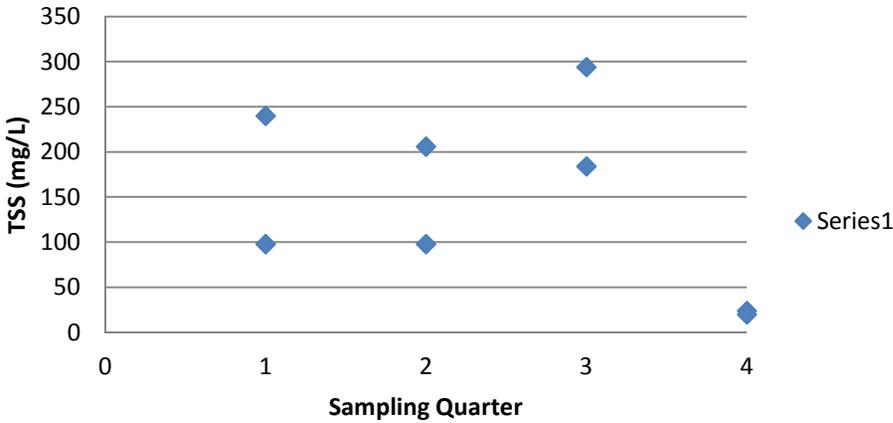


2012 TSS Results

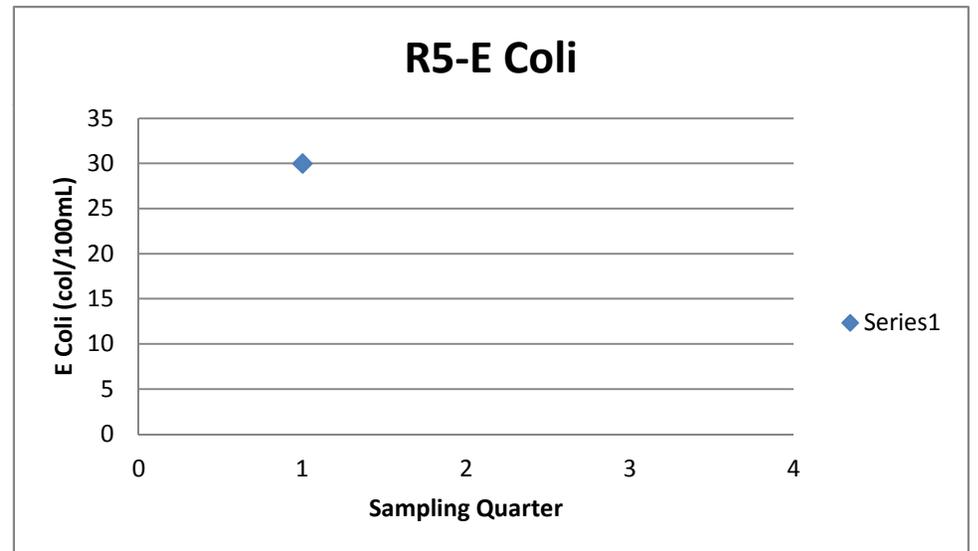
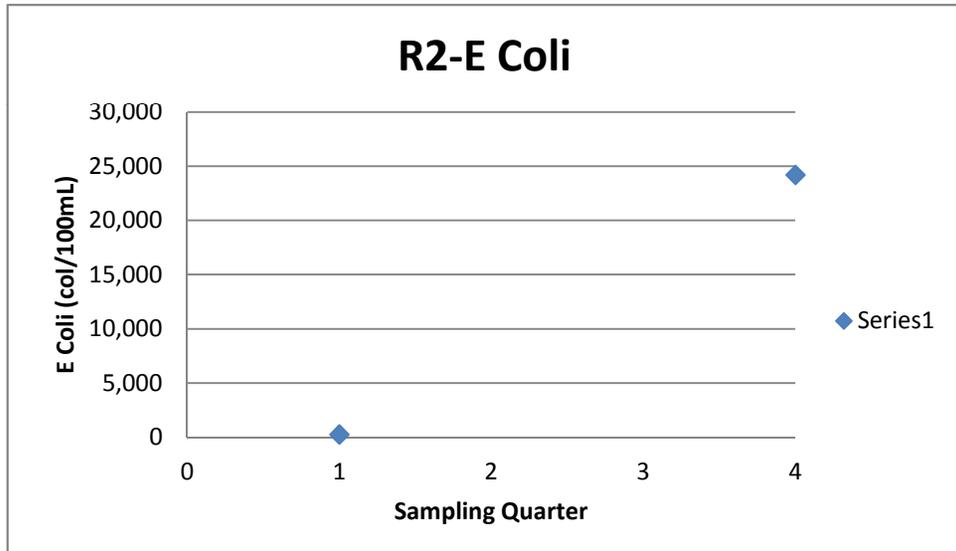
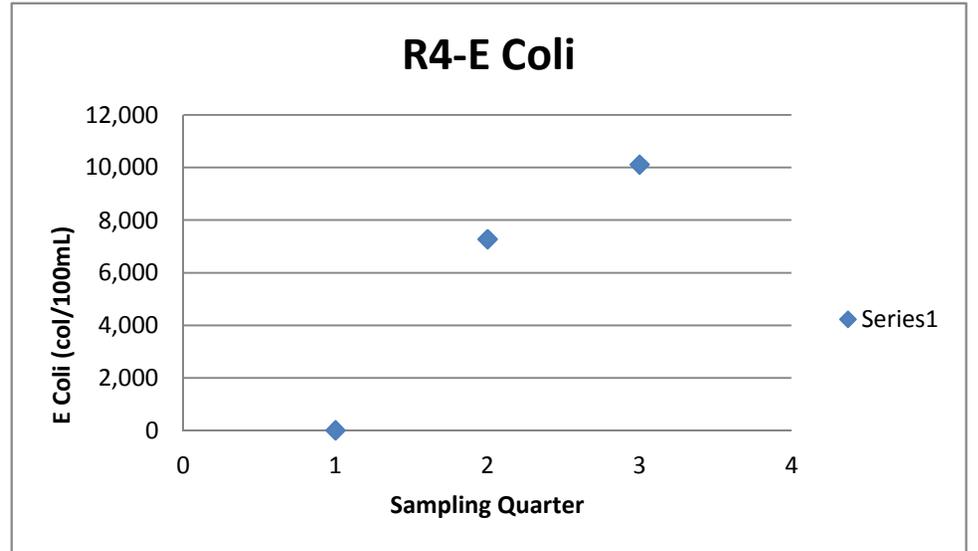
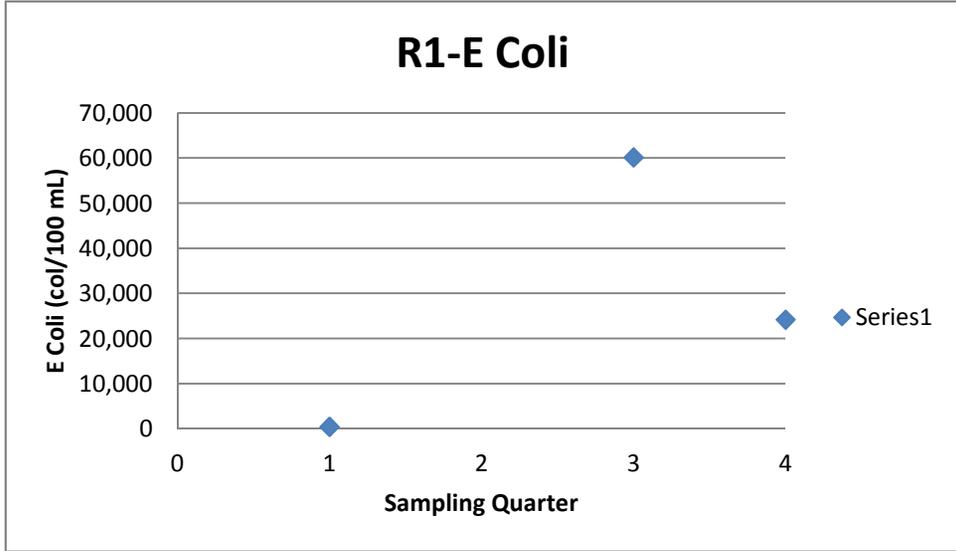
R3-TSS



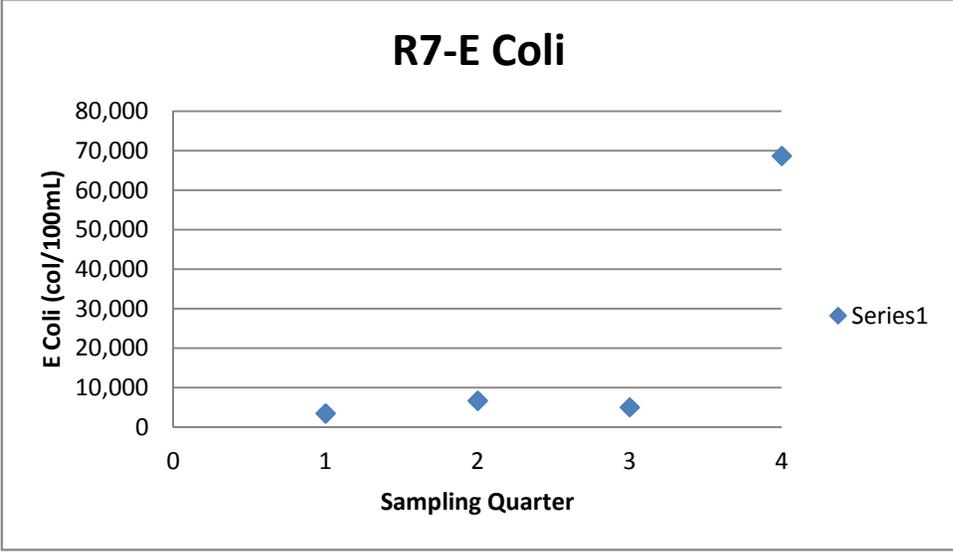
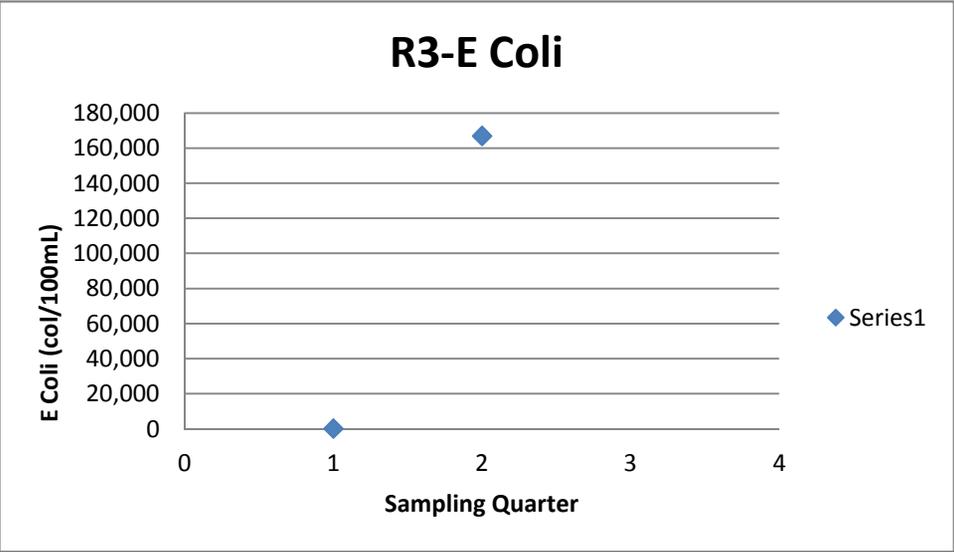
R7-TSS



2012 E-Coli Results

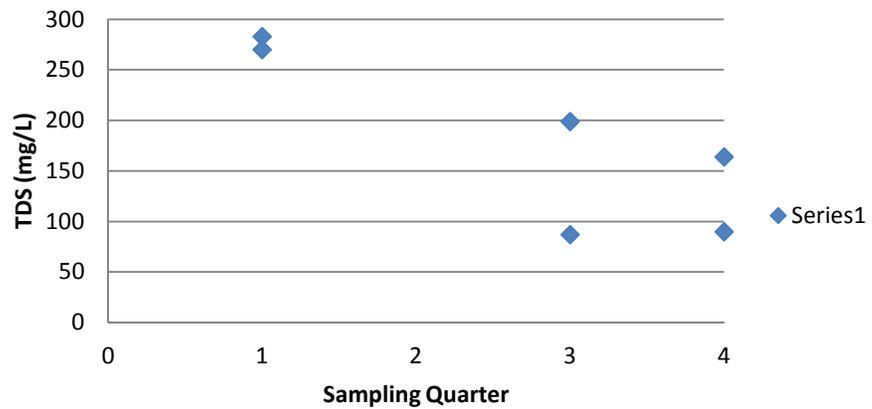


2012 E-Coli Results

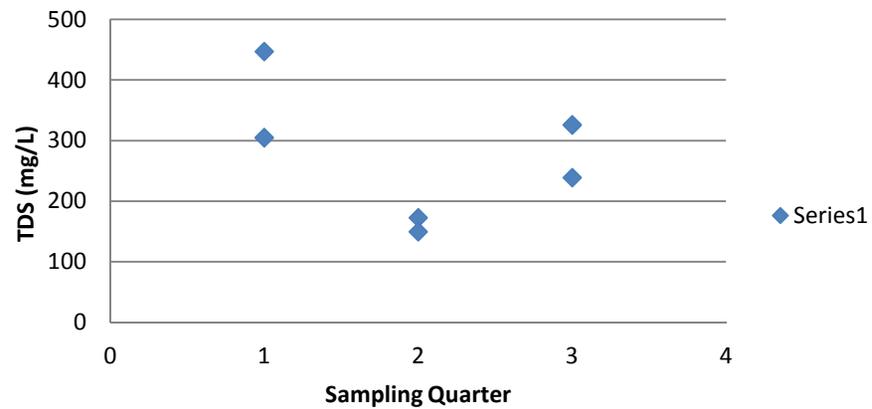


2012 TDS Results

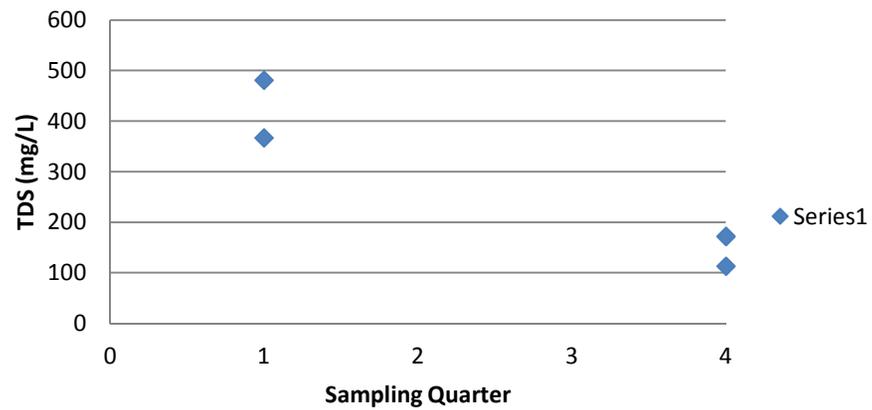
R1-TDS



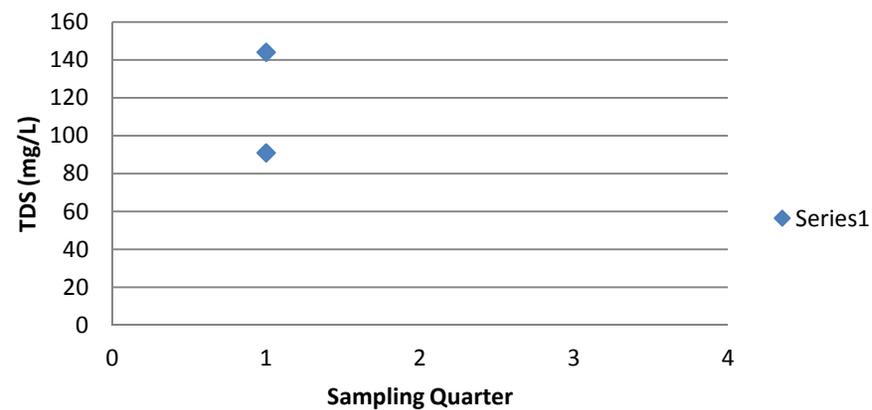
R4-TDS



R2-TDS

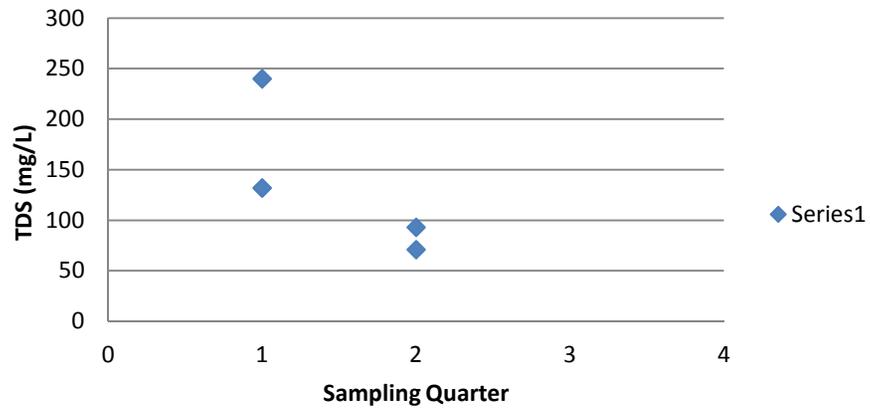


R5-TDS

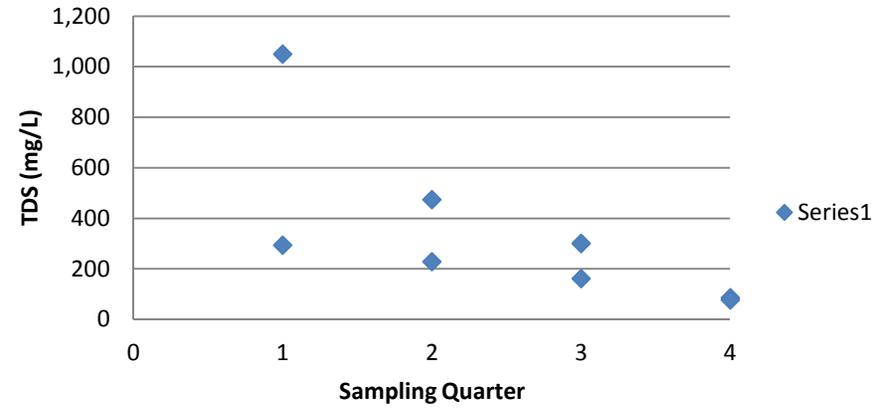


2012 TDS Results

R3-TDS

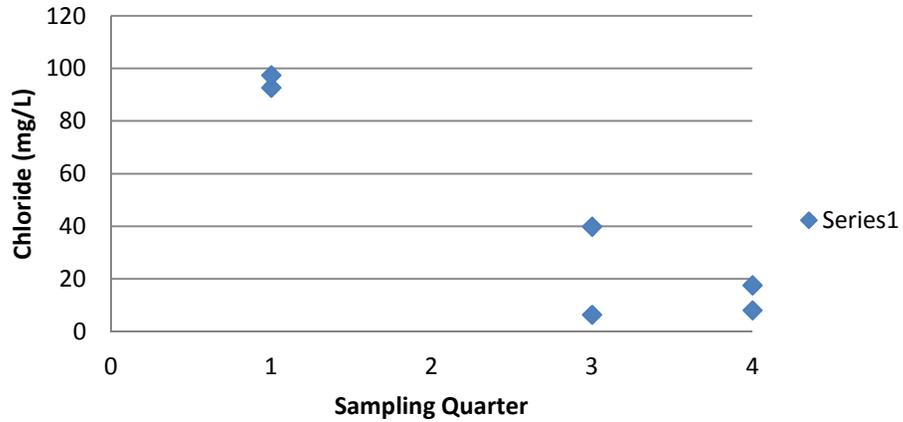


R7-TDS

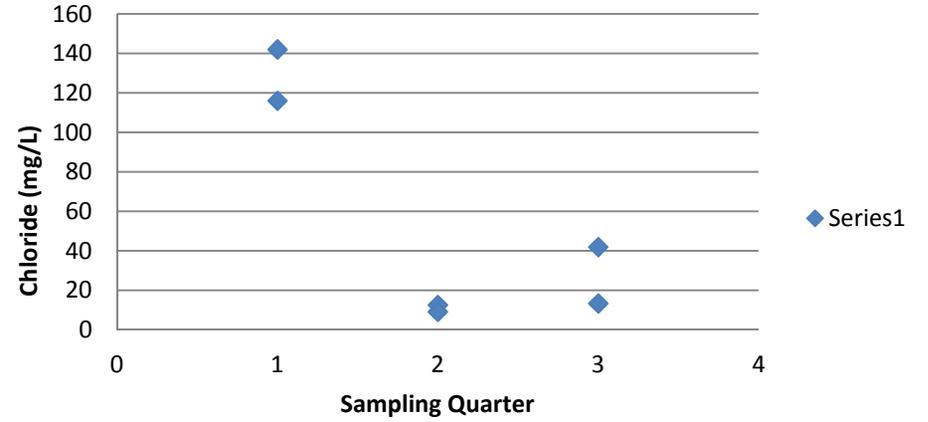


2012 Chloride Results

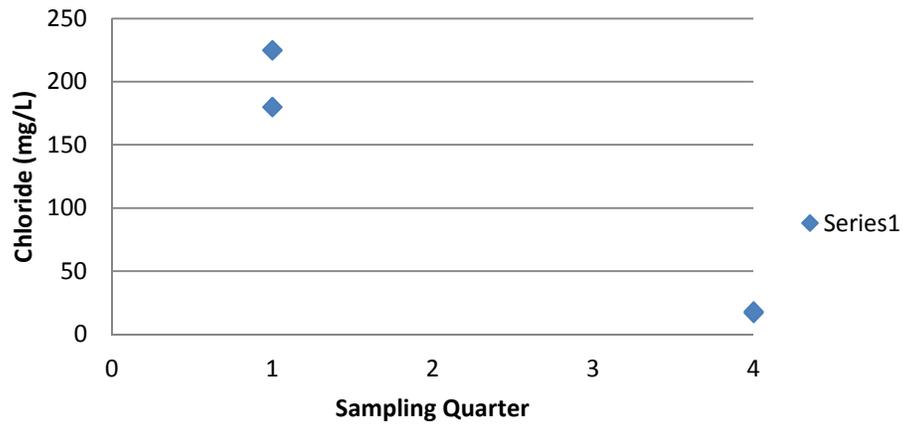
R1-Chloride



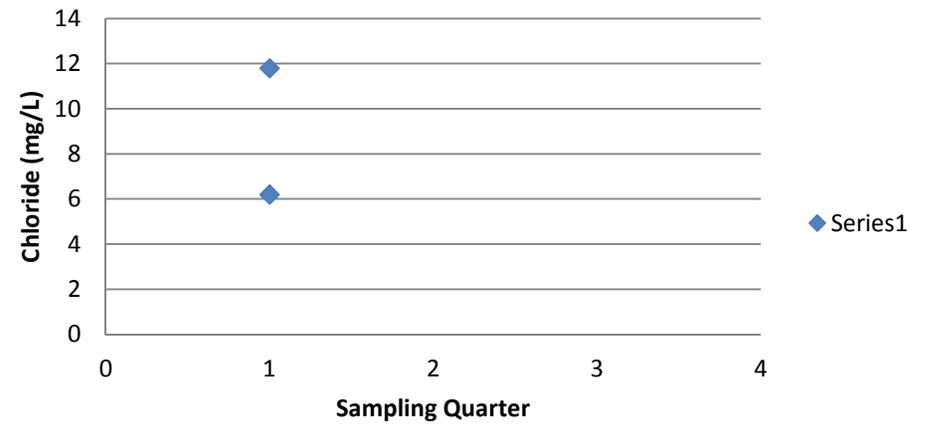
R4-Chloride



R2-Chloride

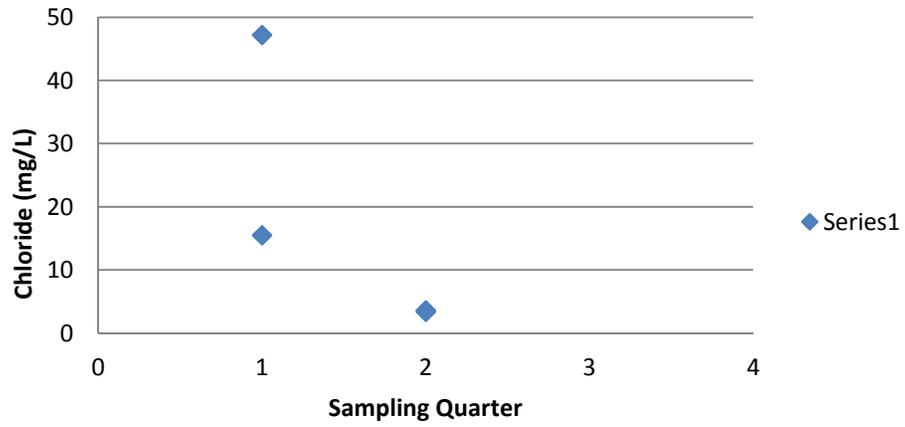


R5-Chloride

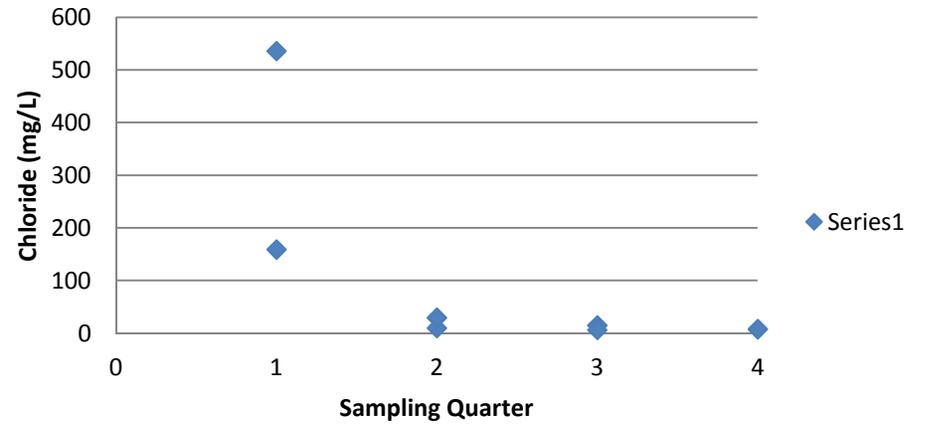


2012 Chloride Results

R3-Chloride



R7-Chloride





UNIFIED GOVERNMENT OF WYANDOTTE COUNTY AND KANSAS CITY, KANSAS

PUBLIC WORKS DEPARTMENT
WATER POLLUTION CONTROL DIVISION
ENVIRONMENTAL COMPLIANCE SECTION

50 MARKET STREET
KANSAS CITY, KANSAS 66118

(913) 573-1300
FAX (913) 573-1351

MEMORANDUM

TO: Sarah Fjell
FROM: Scott Craig *sc*
SUBJECT: 2012 Stormwater NPDES Compliance Report
DATE: January 29, 2013

1. Number of Chlorine residual tests provided for swimming pool discharge – 0
2. Total volume of wastewater accepted from septic haulers in 2012
 - A Septage Volume 2,384,789 Gallons
 - B Grease Interceptor Volume 5,384,040 Gallons
 - C Special Hauled Waste Volume 297,800 Gallons
 - D TOTAL 8,066,629 Gallons
3. Laboratory test results from stormwater sampling sites – See attached. Due to Laboratory Sampler and Laboratory Technician situations, not all samples were taken.

Site	Samples	Goal	%
R-1	3	4	75%
R-2	2	4	50%
R-2 Up	2	2	100%
R-3	2	4	50%
R-3 Up	2	2	100%
R-4	3	4	75%
R-5	1	4	25%
R-6	0	4	0%
R-7	4	4	100%
R-8	0	4	0%
TOTAL	19	36	53%

Stormwater Sites R-6 and R-8 are too deep for the samplers to function properly. I suggest we request a change of location from KDHE.

Site	QTR	Sample ID	Pace Report	TSS (mg/L)	BOD (mg/L)	E Coli (col/100 mL)	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ag ug/L	Zn ug/L	Hardness (mg/L)	O&G (mg/L)	TDS (mg/L)	Chloride (mg/L)	24-hr rain (inches)	24-Hr Vol (gallons)
R-1	1	120203G28	60114867	509		435	<5.0		16.0		<7.0	150	122	<5.0	283	93	1.06	13,603
R-1	1	120203C29	60114867	690	3.5		<5.0		14.7		<7.0	112	116		270	97		
R-1	2																	
R-1	2																	
R-1	3	120808G45	60126794	78		60,150	<5.0		34.8		<7.0	324	247	<5.0	87	6	0.28	1,579
R-1	3	120808C46	60126794	40	9.4		<5.0		<10.0		<7.0	53	903		199	40		
R-1	4	121013G01	60131335	320		24,196	<5.0		41.2	26.4		235	153	<5.0	164	18	N/A	N/A
R-1	4	121013C03	60131335	272	9.6		<5.0		21.2	<5.0		152	75		90	8		
R-2	1	120203G30	60114867	134		256	<5.0		16.5		<7.0	206	108	<5.0	367	180	0.87	N/A
R-2	1	120203C31	60114867	438	32.2		<5.0		85.7		<7.0	694	236		481	225		
R-2	2																	
R-2	2																	
R-2	3																	
R-2	3																	
R-2	4	121013G02	60131335	76		24,196	<5.0		24.8	13.1		80	75	<5.0	172	17	0.82	N/A
R-2	4	121013C04	60131335	116	38.4		<5.0		46.9	16.3		184	62		113	18		
R-2 Up	1	120203G26	60114867		3.0	10,112	<5.0		14.5		<7.0	81						
R-2 Up	2	120228G21	60116157		18.7	152	<5.0		28.4		<7.0	134						
R-3	1	120319G34	60117701	298		221	<5.0		24.9	9.8		135	103	<5.0	240	16	1.48	111,600
R-3	1	120319C35	60117701	132	20.9		<5.0		31.4	11.8		219	168		132	47		
R-3	2	121111G01	60133356	668		167,000	<5.0		28.4	14.6			112	<5.0	93	4		
R-3	2	121111C02	60133356	180	20.1		<5.0		14.4	7.2			53		71	3		
R-3	3																	
R-3	3																	
R-3	4																	
R-3	4																	
R-3 Up	1	120203G27	60114867		22.0	1,785	<5.0		12.3		<7.0	<50						
R-3 Up	2	120228G22	60116157		18.4	2,268	<5.0		22.4		<7.0	69						
R-4	1	120228G29	60116158	396		15	<5.0		40.3	21.4		314	233	8.5	305	116	N/A	N/A

Site	QTR	Sample ID	Pace Report	TSS (mg/L)	BOD (mg/L)	E Coli (col/100 mL)	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ag ug/L	Zn ug/L	Hardness (mg/L)	O&G (mg/L)	TDS (mg/L)	Chloride (mg/L)	24-hr rain (inches)	24-Hr Vol (gallons)
R-4	1	120228C30	60116158	736	37.2		< 5.0		65.8		< 7.0	522	435		447	142	N/A	N/A
R-4	2	120530G23	60122520	740		7,279	< 5.0		48.7	32.2			489	< 5.0	173	13	N/A	N/A
R-4	2	120530C24	60122520	332	42.0		< 5.0		32.0	16.0			242		150	9	N/A	N/A
R-4	3	120808G40	60126794	1,352		10,112	< 5.0		67.1	34.5			920	< 5.0	239	13	0.20	N/A
R-4	3	120808C41	60126794	548	22.8		< 5.0		42.2		< 7.0	292	481		326	42		N/A
R-4	4																	
R-4	4																	
R-5	1	120203G32	60114867	39		30	< 5.0		31.4		< 7.0	51	54		91	6		
R-5	1	120203C33	60114867	828	488.0		< 5.0		34.8		< 7.0	280	147		144	12	1.66	40,098
R-5	2																	
R-5	2																	
R-5	3																	
R-5	3																	
R-5	4																	
R-5	4																	
R-5 Up																		
R-5 Up																		
R-6	1																	
R-6	1																	
R-6	2																	
R-6	2																	
R-6	3																	
R-6	3																	
R-6	4																	
R-6	4																	

Site	QTR	Sample ID	Pace Report	TSS (mg/L)	BOD (mg/L)	E Coli (col/100 mL)	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ag ug/L	Zn ug/L	Hardness (mg/L)	O&G (mg/L)	TDS (mg/L)	Chloride (mg/L)	24-hr rain (inches)	24-Hr Vol (gallons)
R-7	1	120203G34	60114867	98		3,448	< 5.0		12.5		< 7.0	256	82		1,050	536		
R-7	1	120203C35	60114867	240			< 5.0		26.2		< 7.0	672	223		294	159		
R-7	2	120524G44	60122119	98		6,670	< 5.0		37.4				210		229	10	1.46	N/A
R-7	2	120524C45	60122119	206			< 5.0		29.2				273		474	29		
R-7	3	120808G47	60126794	184		5,012	< 5.0		22.6		< 7.0	440	165		301	15	0.20	N/A
R-7	3	120808C48	60126794	294			< 5.0		37.6		< 7.0	1,080	172		162	6		
R-7	4	121017G30	60131585	24		68,670	< 5.0	< 5.0		< 5.0		292	48		86	8	0.10	N/A
R-7	4	121017C31	60131585	20			< 5.0		< 10.0			219	42		78	8		
R-8	1																	
R-8	1																	
R-8	2																	
R-8	2																	
R-8	3																	
R-8	3																	
R-8	4																	
R-8	4																	
R-8 Up																		
R-8 Up																		

* Insufficient DO depletion
N/A No data in database

LAB. IDENTIFICATION NUMBER **120203628** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/107

WPC STORMWATER R-1 GRAB
 W of 3651 MINNESOTA
 KANSAS CITY, KS

RECEIVED IN LAB BY **[Signature]**

DATE **2/3/12** TIME **1215**

PLASTIC 250mL 500 mL 1000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

SENT TO OUTSIDE LAB FOR OVER.

TEST	STANDARD	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B				S.U.		
AMMONIA - N	4500 NH3 E				ug/L		
COD	5220 D				mg/L		
OIL & GREASE	5520 B				mg/L		
PHOSPHOROUS	4500 P E				mg/L		
TKN					mg/L		
TSS	2540 D			504	mg/L	10(CSY)	2/6/12
VSS	2540 E				mg/L		
BOD	5210 B				mg/L		
CBOD	5210 B				mg/L		
SURF (MBAS)	5540 C				mg/L		
ARSENIC (TOTAL)	200.7				mg/L		
CADMIUM (TOTAL)	200.7				mg/L		
CHROMIUM (TOTAL)	200.7				ug/L		
COPPER (TOTAL)	200.7				ug/L		
LEAD (TOTAL)	200.7				ug/L		
NICKEL (TOTAL)	200.7				ug/L		
SILVER (TOTAL)	200.7				ug/L		
ZINC (TOTAL)	200.7				ug/L		
MERCURY (TOTAL)					ug/L		
PHENOL					mg/L		
NITRATE (NO3)							
NITRITE (NO2)							
TPH							
BTEX					mg/L		
CCFP							
CYANIDE					%		
E-COL				435		10 (AS)	2/6/12
ITO IN ODD YEARS					mg/L		
INDUSTRIAL SAMPLING FEE					EACH		

Comments: NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

Notes: GRAB ONLY
 Need 1 sample per quarter

GRAB SAMPLES COLLECTED BY **Michelle Miller**
 DATE **2-3-12** TIME **6:45 AM**

COMPOSITE SAMPLES SET BY _____ DATE SET _____ TIME SET _____

SAMPLE VOL _____ ml EVERY _____ MIN

FIRST SAMPLE TAKEN _____ DATE _____ TIME _____

LAST SAMPLE TAKEN _____ DATE _____ TIME _____

COLLECTED BY _____ DATE _____ TIME _____

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60114867

Sample: 120203G28 R1-GRAB Lab ID: 60114867003 Collected: 02/03/12 13:15 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:00	7440-43-9	
Copper	16.0	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:00	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:00	7440-22-4	
Zinc	150	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:00	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	39.7	mg/L	0.10	1		02/07/12 11:00	7440-70-2	
Magnesium	5.6	mg/L	0.050	1		02/07/12 11:00	7439-95-4	
Total Hardness	122	mg/L	0.50	1		02/07/12 11:00		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		02/14/12 16:19		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	283	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	92.7	mg/L	20.0	20		02/15/12 17:48	16887-00-6	

SENT TO OUTSIDE LAB FOR **OVER**

RECEIVED IN LAB BY **WPC**

DATE **2/2/12** TIME **1315**

PLASTIC 250mL 1000 mL 2000 mL 2.5 Gal

GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal

OTHER 40 mL Vials

Whitpak Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHOD	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B					S.U.		
AMMONIA - N	4500 NH3 E					mg/L		
COD	5220 D					mg/L		
OIL & GREASE	5520 B					mg/L		
PHOSPHOROUS	4500 P E					mg/L		
TKN						mg/L		
TSS	2540 D				100	mg/L	JY	2/6/12
VSS	2540 E					mg/L		
BOD	5210 B				73.45	mg/L	WJ (JY)	2/8/12
CEOD	5210 B					mg/L		
STURF (MBAS)	5540 C					mg/L		
ARSENIC (TOTAL)	200.7					mg/L		
CADMIUM (TOTAL)	200.7					mg/L		
CHROMIUM (TOTAL)	200.7					ug/L		
COPPER (TOTAL)	200.7					ug/L		
LEAD (TOTAL)	200.7					ug/L		
NICKEL (TOTAL)	200.7					ug/L		
SILVER (TOTAL)	200.7					ug/L		
ZINC (TOTAL)	200.7					ug/L		
MERCURY (TOTAL)	200.7					ug/L		
PHENOL						mg/L		
NITRATE (NO3)						mg/L		
NITRITE (NO2)						%		
TPH								
BTEX						mg/L		
CCFP								
CYANIDE								
TTO IN ODD YEARS						mg/L		
INDUSTRIAL SAMPLING FEE						EACH		

Comments: **NO ACCESS NO FLOW COLOR ODOR**

EXCESS FOAM: **FOAM RESPONSE SPILL RESPONSE**

GRAB SAMPLES: **COLLECTED BY DATE TIME**

COMPOSITE SAMPLES: **DATE SET 2-2-12 TIME SET 2:00 PM**

SET BY: **Michael Miller**

SAMPLE VOL: **ml EVERY MIN**

FIRST SAMPLE TAKEN: **DATE 2-3-12 TIME 6:55 AM**

LAST SAMPLE TAKEN: **DATE 2-3-12 TIME 9:55 AM**

COLLECTED BY: **Michael Miller**

DATE: **2-3-12** TIME: **11:15 AM**



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 (813)599-5665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Sample: 120203C29 R1-COMP Lab ID: 60114867004 Collected: 02/03/12 13:15 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:04	7440-43-9	
Copper	14.7	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:04	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:04	7440-22-4	
Zinc	112	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:04	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	38.7	mg/L	0.10	1		02/07/12 11:04	7440-70-2	
Magnesium	4.7	mg/L	0.050	1		02/07/12 11:04	7439-95-4	
Total Hardness	116	mg/L	0.50	1		02/07/12 11:04		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	270	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	97.4	mg/L	20.0	20		02/22/12 07:59	16887-00-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G45-2 R-1 GRAB		Lab ID: 60126794006	Collected: 08/08/12 19:59	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease								
		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		08/20/12 12:54		



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60126794

Sample: 120808G45-3 R-1 GRAB		Lab ID: 60126794007	Collected: 08/08/12 19:59	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/14/12 08:50	08/15/12 12:24	7440-43-9	
Copper	34.8	ug/L	10.0	1	08/14/12 08:50	08/15/12 12:24	7440-50-8	
Silver	ND	ug/L	7.0	1	08/14/12 08:50	08/15/12 12:24	7440-22-4	
Total Hardness by 2340B	247000	ug/L	500	1	08/14/12 08:50	08/15/12 12:24		
Zinc	324	ug/L	50.0	1	08/14/12 08:50	08/15/12 12:24	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G45-4 R-1 GRAB		Lab ID: 60126794008	Collected: 08/08/12 19:59	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	87.0	mg/L	5.0	1		08/10/12 09:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	6.4	mg/L	1.0	1		08/16/12 19:58	18887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER **120808040** SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY **KAC(AS)** DATE **8/1/12** TIME **9:05**

PLASTIC 250mL 500 mL 1000 mL 2.5 Gal

GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal

OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
LAB pH Field	7.50 @ 25°C	2540 D		7.50		KAC(AS)	8/1/12
TSS		5210 B		40		KAC(AS)	8/1/12
BOD		5520B		9244		KAC(AS)	8/1/12
OIL & GREASE (O&G)		4500 NEB E					
AMMONIA - N		4500 P E					
TKN		5520 D					
PHOSPHORUS							
COD							
PHENOL							
ARSENIC (As) TOTAL	200.7						
CADMIUM (Cd) TOTAL	200.7						
CHROMIUM (Cr) TOTAL	200.7						
COPPER (Cu) TOTAL	200.7						
LEAD (Pb) TOTAL	200.7						
NICKEL (Ni) TOTAL	200.7						
MERCURY (Hg) TOTAL	200.7						
SILVER (Ag) TOTAL	200.7						
ZINC (Zn) TOTAL	200.7						
ALUMINUM (Al) TOTAL	200.7						
BERYLLIUM (Be) TOTAL	200.7						
MOLYBDENUM (Mo) TOTAL	200.7						
IRON (Fe) TOTAL	200.7						
SELENIUM (Se) TOTAL	200.7						
THALLIUM (Tl) TOTAL	200.7						
TIN (Sn) TOTAL	200.7						
CHLORINE (Cl) @ 12.45		3500 Cr B		0.06		K	8/1/12
HEXACHROME (Cr-6)		5540 C					
SURFACTANTS (MBAS)							
TPH							
BTEX							
CCFP							
CYANIDE (CN)							
Hardness as CaCO3							
Chloride							
TDS							
ITO IN ODD YEARS							
INDUSTRIAL SAMPLING FEE							EACH

WPC STORMWATER R-1 COMPOSITE
W of 3651 MINNESOTA
KANSAS CITY, KS

Sampling MH in fenced area
GPS N39 06.899 W94 40.283
ANALYZE pH and CHLORINE ON-SITE
COMPOSITE
Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR

EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____

COMPOSITE SAMPLES SET BY **J. Cahar** DATE SET **8/1/12** TIME SET **14:11**

SAMPLE VOL **1.800** ml EVERY **45** MIN

FIRST SAMPLE TAKEN DATE **8/8/12** TIME **19:39**

LAST SAMPLE TAKEN DATE **8/8/12** TIME **22:05**

COLLECTED BY **J. Cahar** DATE **8/1/12** TIME **12:20**



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60126794

Sample: 120808G46-3 R-1 COMP **Lab ID: 60126794009** Collected: 08/08/12 22:05 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/14/12 08:50	08/15/12 12:27	7440-43-9	
Copper	ND	ug/L	10.0	1	08/14/12 08:50	08/15/12 12:27	7440-50-8	
Silver	ND	ug/L	7.0	1	08/14/12 08:50	08/15/12 12:27	7440-22-4	
Total Hardness by 2340B	90300	ug/L	500	1	08/14/12 08:50	08/15/12 12:27		
Zinc	53.2	ug/L	50.0	1	08/14/12 08:50	08/15/12 12:27	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER

Pace Project No.: 60126794

Sample: 120808G46-4 R-1 COMP		Lab ID: 60126794010	Collected: 08/08/12 22:05	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	199	mg/L	5.0	1		08/10/12 09:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	39.9	mg/L	10.0	10		08/16/12 20:16	16887-00-6	

LAB IDENTIFICATION NUMBER **121013601**

WPC STORMWATER R-1 GRAB
W of 3651 MINNESOTA
KANSAS CITY, KS

Sampling MH in fenced area
 GPS N39 06.899 W94 40.283
GRAB ONLY
 Need 1 sample per quarter

3/17/10
 OVER

SENT TO OUTSIDE LAB FOR

RECEIVED IN LAB BY **AK**
 DATE **10-13-12** TIME **16:58**
 PLASTIC 250mL 500 mL 1000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials
 Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
LAB pH Field	4500 H+ B						
TSS	2540 D			320		AKNS	10/17/12
BOD	5210 B						
OIL & GREASE (O&G) -2	5520B	HCl					
AMMONIA - N	4500 NH3 E						
TKN							
PHOSPHORUS	4500 P E						
COD	5520 D						
PHENOL							
ARSENIC (As) TOTAL	200.7						
CADMIUM (Cd) TOTAL -3	200.7	HNO3					
CHROMIUM (Cr) TOTAL	200.7						
COPPER (Cu) TOTAL -3	200.7	HNO3					
LEAD (Pb) TOTAL	200.7	HNO3					
NICKEL (Ni) TOTAL	200.7	HNO3					
MERCURY (Hg) TOTAL							
SILVER (Ag) TOTAL	200.7						
ZINC (Zn) TOTAL -3	200.7	HNO3					
ALUMINUM (Al) TOTAL	200.7						
BERYLLIUM (Be) TOTAL	200.7						
MOLYBDENUM (Mo) TOTAL	200.7						
IRON (Fe) TOTAL	200.7						
SELENIUM (Se) TOTAL	200.7						
THALLIUM (Tl) TOTAL	200.7						
TIN (Sn) TOTAL	200.7						
CHLORIDE							
HEXACHROME (Cr+6)	3500 Cr B						
SURFACTANTS (MBAS)	5540 C						
TPH							
BTEX							
COFP							
CYANIDE (CN)							
Hardness as CaCO3 -3							
Chloride -4		HNO3					
TDS -5							
E COLI -5				224,196		AKNS	10/17/12
TITO IN ODD YEARS							
INDUSTRIAL SAMPLING FEE							

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE
 COLLECTED BY **J.C. Baker**
 DATE **10-13-12** TIME **14:55**
 COMPOSITE SAMPLES DATE SET TIME SET
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN DATE TIME
 LAST SAMPLE TAKEN DATE TIME
 COLLECTED BY DATE TIME

EACH



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2

Pace Project No.: 80131335

Sample: 121013 G01-2 R1 Lab ID: 60131335001 Collected: 10/13/12 14:35 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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HEM, Oil and Grease Analytical Method: EPA 1664A

Oil and Grease	ND	mg/L	5.0	1		10/25/12 07:32		
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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2

Pace Project No.: 60131335

Sample: 121013 G01-3 R1 Lab ID: 60131335002 Collected: 10/13/12 14:35 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:22	7440-43-9	
Copper	41.2	ug/L	10.0	1	10/18/12 16:00	10/20/12 18:22	7440-50-8	
Lead	26.4	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:22	7439-92-1	
Total Hardness by 2340B	153000	ug/L	500	1	10/18/12 16:00	10/20/12 18:22		
Zinc	236	ug/L	50.0	1	10/18/12 16:00	10/20/12 18:22	7440-66-6	



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2

Pace Project No.: 60131336

Sample: 121013 G01-4 R1 Lab ID: 60131335003 Collected: 10/13/12 14:35 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	164	mg/L	5.0	1		10/18/12 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	17.6	mg/L	2.0	2		10/27/12 21:50	16887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER **121013503** RECEIVED IN LAB BY **K** DATE **10-13-12** TIME **1630** 3/11/10
 SENT TO OUTSIDE LAB FOR OVER

WPC STORMWATER R-1 COMPOSITE
W of 3651 MINNESOTA
KANSAS CITY, KS

PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
LAB pH Field	4500 H+B						
TSS	2540 D			27.2		W.A.R.	10/17/12
BOD	5210 B			9.58		W.A.C.K.	10/18/12
OIL & GREASE (O&G)	5520B						
AMMONIA - N	4500 NH3 E						
TKN							
PHOSPHORUS	4500 P E						
COD	5520 D						
PHENOL							
ARSENIC (As) TOTAL	200.7						
CADMIUM (Cd) TOTAL	200.7	H ₂ O ₂					
CHROMIUM (Cr) TOTAL	200.7						
COPPER (Cu) TOTAL	200.7	H ₂ O ₂					
LEAD (Pb) TOTAL	200.7						
NICKEL (Ni) TOTAL	200.7						
MERCURY (Hg) TOTAL	200.7						
SILVER (Ag) TOTAL	200.7						
ZINC (Zn) TOTAL	200.7	H ₂ O ₂					
ALUMINUM (Al) TOTAL	200.7						
BERYLLIUM (Be) TOTAL	200.7						
MOLYBDENUM (Mo) TOTAL	200.7						
IRON (Fe) TOTAL	200.7						
SELENIUM (Se) TOTAL	200.7						
THALLIUM (Tl) TOTAL	200.7						
TIN (Sn) TOTAL	200.7						
HEXACHROME (Cr+6)	3500 Cr B						
SURFACTANTS (MBAS)	5540 C						
TPH							
BTEX							
CCFP							
CYANIDE (CN)							
Hardness as CaCO ₃	-3						
Chloride	7-4						
IDS							
TITO IN ODD YEARS							
INDUSTRIAL SAMPLING FEE							

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____

COMPOSITE SAMPLES SET BY **J. Calher** DATE SET **10-1-12** TIME SET **1448** MIN
 SAMPLE VOL **3600** ml EVERY **180** MIN
 FIRST SAMPLE TAKEN DATE **10-13-12** TIME **138**
 LAST SAMPLE TAKEN DATE **10-13-12** TIME **353**

COLLECTED BY **J. Calher** DATE **10-13-12** TIME **240**



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2
 Pace Project No.: 60131335

Sample: 121013 C03-3 R1 Lab ID: 60131335007 Collected: 10/13/12 15:53 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:26	7440-43-9	
Copper	21.2	ug/L	10.0	1	10/18/12 16:00	10/20/12 18:26	7440-50-8	
Lead	ND	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:26	7439-92-1	
Total Hardness by 2340B	74500	ug/L	500	1	10/18/12 16:00	10/20/12 18:26		
Zinc	152	ug/L	50.0	1	10/18/12 16:00	10/20/12 18:26	7440-86-6	



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2

Pace Project No.: 60131335

Sample: 121013 C03-4 R1	Lab ID: 60131335008	Collected: 10/13/12 15:53	Received: 10/17/12 15:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	90.0	mg/L	5.0	1		10/18/12 11:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	8.1	mg/L	1.0	1		10/27/12 22:25	16887-00-6	

LAB IDENTIFICATION NUMBER **1202030300** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/1/07

SENT TO OUTSIDE LAB FOR _____ OVER _____
 RECEIVED IN LAB BY _____
 DATE **2/3/12** TIME **08:31B**
 PLASTIC 250mL 1000 mL 2000 mL
 GLASS 375 mL Disc. 1000 mL
 OTHER 40 mL Vials Wbirdpak Sterile Fecal Coliform ON ICE / COOLED

WPC STORMWATER R-2 GRAB
 5000 KANSAS AVENUE
 KANSAS CITY, KS

Sampling MH in fenced area
Notes
GRAB ONLY
Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE
 COLLECTED BY **Michael Miller**
 DATE **2-3-12** TIME **7:45 AM**

TEST	STD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B	500 mL			S.U.		
AMMONIA - N	4500 NH3 E	500 mL			mg/L		
COD	5220 D	2000 mL			mg/L		
OIL & GREASE	5520 B	2000 mL			mg/L		
PHOSPHOROUS	4500 P_E	2000 mL			mg/L		
TKN					mg/L		
TSS	2540 D			134	mg/L	JK	2/6/12
VSS	2540 E				mg/L		
BOD	5210 B				mg/L		
CBOD	5210 B				mg/L		
SURF (MBAS)	5540 C				mg/L		
ARSENIC (TOTAL)	200.7				mg/L		
CADMIUM (TOTAL)	200.7				mg/L		
CHROMIUM (TOTAL)	200.7				mg/L		
COPPER (TOTAL)	200.7				mg/L		
LEAD (TOTAL)	200.7				mg/L		
NICKEL (TOTAL)	200.7				mg/L		
SILVER (TOTAL)	200.7				mg/L		
ZINC (TOTAL)	200.7				mg/L		
MERCURY (TOTAL)					mg/L		
PHENOL					mg/L		
NITRATE (NO3)					mg/L		
NITRITE (NO2)					mg/L		
TPH					%		
BTEX					mg/L		
CCFP							
CYANIDE							
E. coli			256		MPN	KA (AS)	2/4/12
ITD IN ODD YEARS					mg/L		
INDUSTRIAL SAMPLING FEE					EACH		

COMPOSITE SAMPLES SET BY _____ DATE SET _____ TIME SET _____
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN _____ DATE _____ TIME _____
 LAST SAMPLE TAKEN _____ DATE _____ TIME _____
 COLLECTED BY _____ DATE _____ TIME _____

ANALYTICAL RESULTS

Project: STORMWATER

Pace Project No.: 60114867

Sample: 120203G30 R2-GRAB Lab ID: 60114867005 Collected: 02/03/12 13:15 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:07	7440-43-9	
Copper	16.5	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:07	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:07	7440-22-4	
Zinc	206	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:07	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	38.3	mg/L	0.10	1		02/07/12 11:07	7440-70-2	
Magnesium	2.9	mg/L	0.050	1		02/07/12 11:07	7439-95-4	
Total Hardness	108	mg/L	0.50	1		02/07/12 11:07		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		02/14/12 16:19		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	367	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	180	mg/L	50.0	50		02/22/12 09:22	16887-00-6	

LAB IDENTIFICATION NUMBER **120203031** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/1/07

SENT TO OUTSIDE LAB FOR OVER
 RECEIVED IN LAB BY **WPC**
 DATE **2/3/12** TIME **1315**
 250mL 1000 mL 2000 mL
 375 mL Disc. 500 mL 1000 mL
 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

WPC STORMWATER R-2 COMPOSITE
 5000 KANSAS AVENUE
 KANSAS CITY, KS

PLASTIC
 GLASS
 OTHER

TEST	STD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B				S.U.		
AMMONIA - N	4500 NH3 E				mg/L		
COD	5220 D				mg/L		
OIL & GREASE	5520 B				mg/L		
PHOSPHOROUS	4500 P E				mg/L		
TKN					mg/L		
TSS	2540 D			438	mg/L	J.Y.	2/6/12
VSS	2540 E				mg/L		
BOD	5210 B			3214	mg/L	K.A.S.Y.	2/6/12
CBOD	5210 B				mg/L		
SURF (MBAS)	5540 C				mg/L		
ARSENIC (TOTAL)	200.7				mg/L		
CADMIUM (TOTAL)	200.7				mg/L		
CHROMIUM (TOTAL)	200.7				mg/L		
COPPER (TOTAL)	200.7				ug/L		
LEAD (TOTAL)	200.7				ug/L		
NICKEL (TOTAL)	200.7				ug/L		
SILVER (TOTAL)	200.7				ug/L		
ZINC (TOTAL)	200.7				ug/L		
MERCURY (TOTAL)	200.7				ug/L		
PHENOL					mg/L		
NITRATE (NO3)					mg/L		
NITRITE (NO2)					mg/L		
TPH					%		
BTEX					mg/L		
COFP							
CYANIDE							
TTO IN ODD YEARS					mg/L		
INDUSTRIAL SAMPLING FEE					EACH		

Notes
 COMPOSITE
 Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____
 COMPOSITE SAMPLES SET BY _____ DATE SET **2-2-12** TIME SET **7:58AM**
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN DATE **2-3-12** TIME **7:58AM**
 LAST SAMPLE TAKEN DATE **2-3-12** TIME **10:58AM**
 COLLECTED BY _____ DATE **2-3-12** TIME **11:45AM**



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 120203C31 R2-COMP		Lab ID: 60114867006		Collected: 02/03/12 13:15		Received: 02/04/12 09:18		Matrix: Water
200.7 Metals, Total								
		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:21	7440-43-9	
Copper	85.7	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:21	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:21	7440-22-4	
Zinc	694	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:21	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	83.6	mg/L	0.50	5		02/07/12 15:24	7440-70-2	
Magnesium	6.6	mg/L	0.050	1		02/07/12 11:21	7439-95-4	
Total Hardness	236	mg/L	2.5	5		02/07/12 15:24		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	481	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	225	mg/L	50.0	50		02/22/12 09:38	16887-00-6	

LAB IDENTIFICATION NUMBER **121013602** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 3/11/10

SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY **W** DATE **10-13-12** TIME **1630**
 PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHOD	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
X	TSS -1	4500 H+B			TL		KACD	10/17/12
X	BOD	2540 D						
X	OIL & GREASE (O&G) -2	5210 B	H4					
	AMMONIA - N	5520B						
	TKN	4500 NH3 E						
	PHOSPHORUS	4500 P E						
	COD	5520 D						
	PHENOL							
	ARSENIC (As) TOTAL	200.7						
X	CADMIUM (Cd) TOTAL -3	200.7	MH H403					
X	CHROMIUM (Cr) TOTAL	200.7						
X	COPPER (Cu) TOTAL 7-3	200.7	H403					
	LEAD (Pb) TOTAL	200.7						
	NICKEL (Ni) TOTAL	200.7						
	MERCURY (Hg) TOTAL							
	SILVER (Ag) TOTAL	200.7						
	ZINC (Zn) TOTAL -3	200.7	H403					
	ALUMINUM (Al) TOTAL	200.7						
	BERYLLIUM (Be) TOTAL	200.7						
	MOLYBDENUM (Mo) TOTAL	200.7						
	IRON (Fe) TOTAL	200.7						
	SELENIUM (Se) TOTAL	200.7						
	THALLIUM (Tl) TOTAL	200.7						
	TIN (Sn) TOTAL	200.7						
	HEXACHROME (Cr+6)	3500 Cr B						
	SURFACTANTS (MBAS)	5540 C						
	TPH							
	BTEX							
	COCP							
	CYANIDE (CN)							
X	Hardness as CaCO3 -3		H403					
X	Chloride							
X	EDS							
X	E COLI							
X	TYO IN ODD YEARS							
X	INDUSTRIAL SAMPLING FEE							

Comments: NO ACCESS NO FLOW COLOR SPILL RESPONSE
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE
 GRAB SAMPLES COLLECTED BY **S. Carher** DATE **10-13-12** TIME **1415**
 COMPOSITE SAMPLES DATE SET TIME SET
 SET BY
 SAMPLE VOL ml EVERY MIN
 FIRST SAMPLE TAKEN DATE TIME
 LAST SAMPLE TAKEN DATE TIME
 COLLECTED BY DATE TIME



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Lenexa, KS 66219
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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2
Pace Project No.: 60131335

Sample: 121013 G02-2 R2 Lab ID: 60131335004 Collected: 10/13/12 14:15 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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HEM, Oil and Grease Analytical Method: EPA 1664A

Oil and Grease	ND	mg/L	5.0	1		10/25/12 07:32		
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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2
 Pace Project No.: 60131335

Sample: 121013 G02-3 R2 Lab ID: 60131335005 Collected: 10/13/12 14:15 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:24	7440-43-9	
Copper	24.8	ug/L	10.0	1	10/18/12 16:00	10/20/12 18:24	7440-50-8	
Lead	13.1	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:24	7439-92-1	
Total Hardness by 2340B	74600	ug/L	500	1	10/18/12 16:00	10/25/12 19:01		
Zinc	79.9	ug/L	50.0	1	10/18/12 16:00	10/20/12 18:24	7440-66-6	



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2

Pace Project No.: 60131335

Sample: 121013 G02-4 R2	Lab ID: 60131335006	Collected: 10/13/12 14:15	Received: 10/17/12 15:35	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	172 mg/L		5.0	1		10/19/12 11:01			
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	17.1 mg/L		2.0	2		10/27/12 22:07	16887-00-6		

LAB IDENTIFICATION NUMBER **121013C04** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 3/11/10

WPC STORMWATER R-2 COMPOSITE
 5000 KANSAS AVENUE
 KANSAS CITY, KS

RECEIVED IN LAB BY **J. Caiber** DATE **10-13-12** TIME **1630**
 PLASTIC 250mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whitpak Sterile Fecal Colliform ON ICE / COOLED

SENT TO OUTSIDE LAB FOR OVER

TEST	PH	Field	STANDARD METHODS 20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
X			4500 H+ B			11.0		WALBY	10/17/12
X			2540 D			38.4		WALBY	10/10/12
			5210 B						
			5520 B						
			4500 NH3 E						
			4500 PE						
			5520 D						
			PHENOL						
			TKN						
			PHOSPHORUS						
			OIL & GREASE (O&G)						
			AMMONIA - N						
			ARSENIC (As) TOTAL		200.7				
X			CADMIUM (Cd) TOTAL	-3	200.7				
			CHROMIUM (Cr) TOTAL		200.7				
X			COPPER (Cu) TOTAL	-3	200.7				
X			LEAD (Pb) TOTAL		200.7				
			NICKEL (Ni) TOTAL		200.7				
			MERCURY (Hg) TOTAL		200.7				
			SILVER (Ag) TOTAL		200.7				
			ZINC (Zn) TOTAL	-3	200.7				
			ALUMINUM (Al) TOTAL		200.7				
			BERYLLIUM (Be) TOTAL		200.7				
			MOLYBDENUM (Mo) TOTAL		200.7				
			IRON (Fe) TOTAL		200.7				
			SELENIUM (Se) TOTAL		200.7				
			THALLIUM (Tl) TOTAL		200.7				
			TIN (Sn) TOTAL		200.7				
X			HEXACHROME (Cr+6)		3500 Ct B				
			SURFACTANTS (MBAS)		5540 C				
			TPH						
			BTEX						
			CCP						
			CYANIDE (CN)						
X			Hardness as CaCO3	-3					
X			Chloride	7-4					
X			TDS						
			ITO IN ODD YEARS						
X			INDUSTRIAL SAMPLING FEE						EACH

COMMENTS: Sampling MH in fenced area
 GPS N39 05.372 W94 41.468
 COMPOSITE
 Need 1 sample per quarter

EXCESS FOAM: NO ACCESS NO FLOW COLOR ODOR
 FOAM RESPONSE: SPILL RESPONSE

GRAB SAMPLES: COLLECTED BY DATE TIME SET

COMPOSITE SAMPLES: DATE SET 10-12 1207
 SET BY J. Caiber

SAMPLE VOL: 3600 mL EVERY 180 MIN

FIRST SAMPLE TAKEN: DATE 10-13-12 TIME 125

LAST SAMPLE TAKEN: DATE 10-13-12 TIME 152

COLLECTED BY: J. Caiber DATE 10-13-12 TIME 215

ANALYTICAL RESULTS

Project: STORMWATER R1 & R2
Pace Project No.: 60131335

Sample: 121013 C04-3 R2 Lab ID: 60131335009 Collected: 10/13/12 14:52 Received: 10/17/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:28	7440-43-9	
Copper	46.9	ug/L	10.0	1	10/18/12 16:00	10/20/12 18:28	7440-50-8	
Lead	16.3	ug/L	5.0	1	10/18/12 16:00	10/20/12 18:28	7439-92-1	
Total Hardness by 2340B	61600	ug/L	500	1	10/18/12 16:00	10/20/12 18:28		
Zinc	184	ug/L	50.0	1	10/18/12 16:00	10/20/12 18:28	7440-66-6	



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ANALYTICAL RESULTS

Project: STORMWATER R1 & R2
Pace Project No.: 60131335

Sample: 121013 C04-4 R2		Lab ID: 60131335010	Collected: 10/13/12 14:52	Received: 10/17/12 15:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	113	mg/L	5.0	1		10/18/12 11:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	18.2	mg/L	2.0	2		10/27/12 22:42	16887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

11/1/07

LAB IDENTIFICATION NUMBER **170203 G2L**

SENT TO OUTSIDE LAB FOR

OVER

RECEIVED IN LAB BY CAF DATE 2/3/12 TIME 0845
 PLASTIC 250mL 1000 mL 2000 mL
 GLASS 375 mL Disc. 500 mL
 OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform

ON ICE / COOLED

TEST	STD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
LAB pH	4500 H + B				S.U.		
FIELD	5220 D				mg/L		
COD	2540 D				mg/L		
TSS	2540 E				mg/L		
VSS	5210 B			<u>23</u>	mg/L	<u>CAF</u>	<u>2/3/12</u>
BOD	5210 B				mg/L		
CBOD	5520 B				mg/L		
OIL & GREASE	5540 C				mg/L		
SURE (MBAS)	200.7				mg/L		
Cd Cadmium (total)	200.7				ug/L		
Cr Chromium (total)	200.7				ug/L		
Cu Copper (total)	200.7				ug/L		
Pb Lead (total)	200.7				ug/L		
Mn Manganese (total)	200.7				ug/L		
Zn Zinc (total)	200.7				ug/L		
Hexachloro	3500 Cr. B				ug/L		
As Arsenic (total)	200.7				ug/L		
Hg Mercury (total)	200.7				ug/L		
Ag Silver (total)	200.7				ug/L		

COLLECTED BY Michael Miller DATE 2-3-12 TIME 7:30am

COMMENTS	NO ACCESS	NO FLOW	COLOR	ODOR
EXCESS FOAM				
GRAB SAMPLES				
COMPOSITE SAMPLES				
SET BY				
SAMPLE VOL				
FIRST SAMPLE TAKEN				
LAST SAMPLE TAKEN				
COLLECTED BY				

TEST	UNIT	RESULT	ANALYZED BY	ANALYSIS DATE
LAB pH	S.U.			
FIELD	mg/L			
COD	mg/L			
TSS	mg/L			
VSS	mg/L			
BOD	mg/L			
CBOD	mg/L			
OIL & GREASE	mg/L			
SURE (MBAS)	mg/L			
Cd Cadmium (total)	ug/L			
Cr Chromium (total)	ug/L			
Cu Copper (total)	ug/L			
Pb Lead (total)	ug/L			
Mn Manganese (total)	ug/L			
Zn Zinc (total)	ug/L			
Hexachloro	ug/L			
As Arsenic (total)	ug/L			
Hg Mercury (total)	ug/L			
Ag Silver (total)	ug/L			
E.coli	col/100mL	<u>1012</u>	<u>JH</u>	<u>2/3/12</u>
PHENOL	mg/L			
AMMONIA - N	mg/L			
TKN	mg/L			
PHOSPHOROUS	mg/L			
PERACETIC ACID	mg/L			
CYANIDE	%			
NITRATE (NO3)				
NITRITE (NO2)				
IPH				
BTEX	mg/L			
CCFP	mg/L			
INDUSTRIAL SAMPLING FEE	EACH			

Notes
R2 upstream



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ANALYTICAL RESULTS

Project: STORMWATER

Pace Project No.: 60114867

Sample: 120203G26 R2-UPSTREAM Lab ID: 60114867001 Collected: 02/03/12 08:45 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 10:53	7440-43-9	
Copper	14.5	ug/L	10.0	1	02/06/12 15:45	02/07/12 10:53	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 10:53	7440-22-4	
Zinc	81.4	ug/L	50.0	1	02/06/12 15:45	02/07/12 10:53	7440-66-6	

3/11/10

SENT TO OUTSIDE LAB FOR OVER

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER 1202286721

WPC STORMWATER R-2 UPSTREAM GRAB
Near 200 S 42nd ST
KANSAS CITY, KS

RECEIVED IN
LAB BY

DATE 2-28-12 TIME 1450
2000 mL 2.5 Gal
500 mL 1000 mL
375 mL Disc. 1000 mL
40 mL Vials Winipak Sterile Fecal Colliborm ON ICE / COOLED

TEST	STANDARD METHODS 20 mL EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
G LAB pH Field	4500 H+ B						
G TSS	2540 D						
X BOD	5210 B	4°C		18-72		KAC(JY)	2/5/12
G OIL & GREASE (O&G)	5520B						
G AMMONIA - N	4500 NH3 E						
G TKN							
G PHOSPHORUS	4500 P E						
G COD	5520 D						
G PHENOL							
G ARSENIC (As) TOTAL	200.7						
X CADMIUM (Cd) TOTAL	200.7	4°C					
G CHROMIUM (Cr) TOTAL	200.7						
X COPPER (Cu) TOTAL	200.7						
G LEAD (Pb) TOTAL	200.7						
G NICKEL (Ni) TOTAL	200.7						
G MERCURY (Hg) TOTAL	200.7						
G SILVER (Ag) TOTAL	200.7						
G ZINC (Zn) TOTAL	200.7						
G ALUMINUM (Al) TOTAL	200.7						
G BERYLLIUM (Be) TOTAL	200.7						
G MOLYBDENUM (Mo) TOTAL	200.7						
G IRON (Fe) TOTAL	200.7						
G SELENIUM (Se) TOTAL	200.7						
G THALLIUM (Tl) TOTAL	200.7						
G TIN (Sn) TOTAL	200.7						
G HEXACHROME (Cr+6)	3500 Cr B						
G SURFACTANTS (MBAS)	5540 C						
G TPH							
G BTEX							
G CCFP							
G CYANIDE (CN)							
G E COLI							
X TIO IN ODD YEARS		4°C		152		KAC(B)	2/28/10
X INDUSTRIAL SAMPLING FEE							

MH in street N of Martin Gillet on 42nd St
GPS N39 05.681 W94 40.632

GRAB ONLY
Need 2 samples per year

COMMENTS NO FLOW COLOR ODOR
EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY KA+CK
DATE 2/27/12 TIME 13:59

COMPOSITE SAMPLES SET BY DATE SET TIME SET

SAMPLE VOL ml EVERY MIN

FIRST SAMPLE TAKEN DATE TIME

LAST SAMPLE TAKEN DATE TIME

COLLECTED BY DATE TIME



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ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60116157

Sample: 120228G21 R2 UPSTREAM Lab ID: 60116157001 Collected: 02/28/12 14:50 Received: 02/29/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/01/12 08:40	03/05/12 12:30	7440-43-9	
Copper	28.4	ug/L	10.0	1	03/01/12 08:40	03/05/12 12:30	7440-50-8	
Silver	ND	ug/L	7.0	1	03/01/12 08:40	03/05/12 12:30	7440-22-4	
Zinc	134	ug/L	50.0	1	03/01/12 08:40	03/05/12 12:30	7440-66-6	

LAB IDENTIFICATION NUMBER **120319634** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/1/07

RECEIVED IN LAB BY *my* SENT TO OUTSIDE LAB FOR DATE **3/20/12** TIME **1030**
 PLASTIC 250ml. 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whip Pak Sterile Fecal Coliform ON ICE / COOLED

WPC STORMWATER R-3 GRAB Behind 1803 N 77th St KANSAS CITY, KS

Sampling MH in fenced area
Notes
GRAB ONLY
 Need 1 sample per quarter

TEST	STANDARD METHOD	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B			S.U.		
AMMONIA - N	4500 NH3 E			ug/L		
COD	5220 D			mg/L		
OIL & GREASE	5520 B			mg/L		
PHOSPHOROUS	4500 P E			mg/L		
TKN				mg/L		
TSS	2540 D		296	mg/L	371	3/20/12
BOD	5210 B			mg/L		
CBOD	5210 B			mg/L		
SURF (MBAS)	5540 C			mg/L		
ARSENIC (TOTAL)	200.7			mg/L		
CADMIUM (TOTAL)	200.7			ug/L		
CHROMIUM (TOTAL)	200.7			ug/L		
COPPER (TOTAL)	200.7			ug/L		
LEAD (TOTAL)	200.7			ug/L		
NICKEL (TOTAL)	200.7			ug/L		
SILVER (TOTAL)	200.7			ug/L		
ZINC (TOTAL)	200.7			ug/L		
MERCURY (TOTAL)	200.7			ug/L		
PHENOL				mg/L		
NITRATE (NO3)				mg/L		
NITRITE (NO2)				mg/L		
TPH				%		
BTEX				mg/L		
COFP						
CYANIDE						
Hardness			221,176		165(CK)	3/20/12
Foam Chloride						
TTO IN ODD YEARS				mg/L		
INDUSTRIAL SAMPLING FEE				EACH		

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE
 GRAB SAMPLES COLLECTED BY *Michael Miller*
 DATE **3-19-12** TIME **12:26 PM**
 COMPOSITE SAMPLES SET BY *mm* DATE SET **3-19-12** TIME SET **12:26 PM**
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN DATE _____ TIME _____
 LAST SAMPLE TAKEN DATE _____ TIME _____
 COLLECTED BY _____ DATE _____ TIME _____



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60117701

Sample: 120319G34 R3 GRAB Lab ID: 60117701001 Collected: 03/20/12 10:30 Received: 03/20/12 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/22/12 17:00	03/24/12 15:09	7440-43-9	
Copper	24.9	ug/L	10.0	1	03/22/12 17:00	03/24/12 15:09	7440-50-8	
Lead	9.8	ug/L	5.0	1	03/22/12 17:00	03/24/12 15:09	7439-92-1	
Total Hardness by 2340B	103000	ug/L	500	1	03/22/12 17:00	03/24/12 15:09		
Zinc	135	ug/L	50.0	1	03/22/12 17:00	03/24/12 15:09	7440-66-6	
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		03/29/12 11:55		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	240	mg/L	5.0	1		03/23/12 13:31		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	15.5	mg/L	1.0	1		03/22/12 11:30	16887-00-6	

LAB IDENTIFICATION NUMBER **120319C35** UNITED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/1/07

SENT TO OUTSIDE LAB FOR OVER
 RECEIVED IN LAB BY **WPC**
 DATE **3/20/12** TIME **1030**
 PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

TEST	STANDARD METHODS	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B				S.U.		
AMMONIA - N	4500 NH3 E				mg/L		
COD	5220 D				mg/L		
OIL & GREASE	5520 B				mg/L		
PHOSPHOROUS	4500 P E				mg/L		
TKN					mg/L		
TSS	2540 D			132	mg/L	571	3/20/12
VSS	2540 E				mg/L		
BOD	5210 B				mg/L		
COD	5210 B				mg/L		
STURF (MBAS)	5540 C				mg/L		
ARSENIC (TOTAL)	200.7				mg/L		
CADMIUM (TOTAL)	200.7				mg/L		
CHROMIUM (TOTAL)	200.7				mg/L		
COPPER (TOTAL)	200.7				ug/L		
LEAD (TOTAL)	200.7				ug/L		
NICKEL (TOTAL)	200.7				ug/L		
SILVER (TOTAL)	200.7				ug/L		
ZINC (TOTAL)	200.7				ug/L		
MERCURY (TOTAL)	200.7				ug/L		
PHENOL					mg/L		
NITRATE (NO3)							
NITRITE (NO2)							
TPH							
PTX					mg/L		
CCP							
CYANIDE					%		
Hardness Chloride							
TTO IN ODD YEARS					mg/L		
INDUSTRIAL SAMPLING FEE					EACH		

Notes
 COMPOSITE
 Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY DATE TIME

COMPOSITE SAMPLES DATE SET **3-19-12** TIME SET **12:36PM**
 SET BY **Michael Miller**

SAMPLE VOL ml EVERY MIN

FIRST SAMPLE TAKEN DATE **3-19-12** TIME **12:36PM**
 LAST SAMPLE TAKEN DATE **3-19-12** TIME **2:36PM**
 COLLECTED BY **Michael Miller**

DATE **3-20-12** TIME **9:15AM**



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60117701

Sample: 120319G34 R3 COMP Lab ID: 60117701002 Collected: 03/20/12 10:30 Received: 03/20/12 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/22/12 17:00	03/24/12 15:13	7440-43-9	
Copper	31.4	ug/L	10.0	1	03/22/12 17:00	03/24/12 15:13	7440-50-8	
Lead	11.8	ug/L	5.0	1	03/22/12 17:00	03/24/12 15:13	7439-92-1	
Total Hardness by 2340B	168000	ug/L	500	1	03/22/12 17:00	03/24/12 15:13		
Zinc	219	ug/L	50.0	1	03/22/12 17:00	03/24/12 15:13	7440-66-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	132	mg/L	5.0	1		03/23/12 13:31		
4500 Chloride		Analytical Method: SM 4500-CLE						
Chloride	47.2	mg/L	1.0	1		03/22/12 11:31	16887-00-6	

ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 60133356

Sample: 121111G01-2 R-3 GRAB Lab ID: 60133356001 Collected: 11/11/12 05:59 Received: 11/13/12 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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HEM, Oil and Grease Analytical Method: EPA 1664A

Oil and Grease	ND	mg/L	5.0	1		11/26/12 09:21		
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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 60133356

Sample: 121111G01-3 R-3 GRAB Lab ID: 60133356002 Collected: 11/11/12 05:59 Received: 11/13/12 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	11/16/12 17:00	11/19/12 11:38	7440-43-9	
Copper	28.4	ug/L	10.0	1	11/16/12 17:00	11/19/12 11:38	7440-50-8	
Lead	14.6	ug/L	5.0	1	11/16/12 17:00	11/19/12 11:38	7439-92-1	
Total Hardness by 2340B	112000	ug/L	500	1	11/16/12 17:00	11/19/12 11:38		



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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 60133356

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	93.0	mg/L	5.0	1		11/15/12 15:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	3.6	mg/L	1.0	1		11/22/12 14:01	16887-00-6	

LAB IDENTIFICATION NUMBER 1211102 UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/15/12 OVER

SENT TO OUTSIDE LAB FOR ACASD RECEIVED IN ACASD DATE 11/11/12 TIME 1320

WPC STORMWATER R-3 COMPOSITE Behind 1803 N 77th St KANSAS CITY, KS

PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whipapak Sterile Fecal Coliform ON ICE / COOLED

LAB	TEST	STANDARD METHODS	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
X	LAB pH Field	4500 H+ B				
X	TSS	2540 D	180		BAAS	11/14/12
X	BOD	5210 B	28.1		CSVA	11/17/12
	OIL & GREASE (O&G)	5520B				
	AMMONIA - N	4500 NH ₃ E				
	TKN					
	PHOSPHORUS	4500 P E				
	COD	5520 D				
	PHENOL					
	ARSENIC (As) TOTAL	200.7				
X	CADMIUM (Cd) TOTAL	200.7				
	CHROMIUM (Cr) TOTAL	200.7				
X	COPPER (Cu) TOTAL	200.7				
X	LEAD (Pb) TOTAL	200.7				
	NICKEL (Ni) TOTAL	200.7				
	MERCURY (Hg) TOTAL					
	SILVER (Ag) TOTAL	200.7				
	ZINC (Zn) TOTAL	200.7				
	ALUMINUM (Al) TOTAL	200.7				
	BERYLLIUM (Be) TOTAL	200.7				
	MOLYBDENUM (Mo) TOTAL	200.7				
	IRON (Fe) TOTAL	200.7				
	SELENIUM (Se) TOTAL	200.7				
	THALLIUM (Tl) TOTAL	200.7				
	TIIN (Sn) TOTAL	200.7				
	HEXACHROME (Cr+6)	3500 Cr B				
	SUREACTACTS (MBAS)	5540 C				
	TPH					
	BTEX					
	CCFP					
	CYANIDE (CN)					
X	Hardness as CaCO ₃					
X	TDS					
	TTO IN ODD YEARS					
	INDUSTRIAL SAMPLING FEE					EACH

Sampling MH in fenced area
 GPS N39 07.525 W94 45.450
 COMPOSITE
 Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____

COMPOSITE SAMPLES DATE SET 10/16/12 TIME SET 8:12
 FIRST SAMPLE TAKEN DATE 11/1/12 TIME 6:00

LAST SAMPLE TAKEN DATE 11/1/12 TIME 8:15

SAMPLE VOL _____ ml EVERY _____ MIN

SET BY Scott Craig

COLLECTED BY _____ DATE 11/1/12 TIME 11:35



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ANALYTICAL RESULTS

Project: Stormwater
 Pace Project No.: 60133356

Sample: 121111C02-3 R-3 COMP Lab ID: 60133356004 Collected: 11/11/12 08:15 Received: 11/13/12 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	11/16/12 17:00	11/19/12 11:42	7440-43-9	
Copper	14.4	ug/L	10.0	1	11/16/12 17:00	11/19/12 11:42	7440-50-8	
Lead	7.2	ug/L	5.0	1	11/16/12 17:00	11/19/12 11:42	7439-92-1	
Total Hardness by 2340B	53400	ug/L	500	1	11/16/12 17:00	11/19/12 11:42		



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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 60133356

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 121111C02-4 R-3 COMP	Lab ID: 60133356005		Collected: 11/11/12 08:15		Received: 11/13/12 13:45		Matrix: Water	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	71.0	mg/L	5.0	1		11/15/12 15:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	3.4	mg/L	1.0	1		11/22/12 14:49	16887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

11/1/07

LAB IDENTIFICATION NUMBER **100203 GAT**

SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY **WJF** DATE **2/3/12** TIME **0845**
 FLASTIC 250mL 500 mL 1000 mL 2000 mL
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL. Vials Whipak Sterile Fecal Coliform **ON ICE / COOLED**

TEST	STD METHODS	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
LAB pH FIELD	4500 H + B					S.U.		
COD	5220 D					mg/L		
TSS	2540 D					mg/L		
VSS	2540 E					mg/L		
BOD	5210 B				> 300	mg/L	KACST	2/3/12
CBOID	5210 B					mg/L		
OIL & GREASE	5520 B					mg/L		
SURF (MBAS)	5540 C					mg/L		
Cd Cadmium (total)	200.7					mg/L		
Cr Chromium (total)	200.7					ug/L		
Cu Copper (total)	200.7					ug/L		
Pb Lead (total)	200.7					ug/L		
Se Nickel (total)	200.7					ug/L		
Zn Zinc (total)	200.7					ug/L		
Hexachrome	3500 Cr B					ug/L		
As Arsenic (total)	200.7					mg/L		
Hg Mercury (total)						ug/L		
Ag Silver (total)	200.7					ug/L		
Ecdi					1785	mg/L	JH	2/3/12
PHENOL						ug/L		
AMMONIA - N	4500 NED B					mg/L		
TKN						mg/L		
PHOSPHOROUS	4500 P E					mg/L		
PHOSPHOROUS	9222 D					cell / 100mL		
CYANIDE						%		
NITRATE (NO3)								
NITRITE (NO2)								
TPH						mg/L		
BTEX								
CCFP						mg/L		
LTO IN ODD YEARS								
INDUSTRIAL SAMPLING FEE						EACH		

Notes

R3 Upstream

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY **Michael Miller**
 DATE **2-3-12** TIME **8:00AM**

COMPOSITE SAMPLES SET BY DATE SET TIME SET
 SAMPLE VOL ml EVERY MIN
 FIRST SAMPLE TAKEN DATE TIME
 LAST SAMPLE TAKEN DATE TIME
 COLLECTED BY DATE TIME



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ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Sample: 120203G27 R3-UPSTREAM Lab ID: 60114867002 Collected: 02/03/12 08:45 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 10:57	7440-43-9	
Copper	12.3	ug/L	10.0	1	02/06/12 15:45	02/07/12 10:57	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 10:57	7440-22-4	
Zinc	ND	ug/L	50.0	1	02/06/12 15:45	02/07/12 10:57	7440-66-6	

LAB IDENTIFICATION NUMBER **120228922**

3/11/10

SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY **CU** DATE **2-28-12** TIME **1450**

WPC STORMWATER R-3 UPSTREAM GRAB
Behind Presbyterian Manor
KANSAS CITY, KS

PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

MH in street N of Martin Gillet on 42nd St
GPS N39 07.407 W94 45.748

GRAB ONLY
Need 2 samples per year

TEST	FIELD	LAB	PH	STANDARD METHODS	20th EDITION	PRESERVED	LMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
G				4500 H+ B							
X				2540 D				18.34		KAY	3/5/12
				5210 B		4°C					
				5520B							
				4500 NEB E							
				4500 PE							
				5520 D							
				ARSENIC (As) TOTAL	200.7						
X				CADMIUM (Cd) TOTAL	200.7						
				CHROMIUM (Cr) TOTAL	200.7						
X				COPPER (Cu) TOTAL	200.7						
				LEAD (Pb) TOTAL	200.7						
				NICKEL (Ni) TOTAL	200.7						
				MERCURY (Hg) TOTAL	200.7						
				SILVER (Ag) TOTAL	200.7						
				ZINC (Zn) TOTAL	200.7						
				ALUMINUM (Al) TOTAL	200.7						
				BERYLLIUM (Be) TOTAL	200.7						
				MOLYBDENUM (Mo) TOTAL	200.7						
				IRON (Fe) TOTAL	200.7						
				SELENIUM (Se) TOTAL	200.7						
				THALLIUM (Tl) TOTAL	200.7						
				TIN (Sn) TOTAL	200.7						
				HEXACHROME (Cr+6)	3500 Cr B						
				SURFACTANTS (MBAS)	5540 C						
				TPH							
				BTEX							
				CCP							
				CYANIDE (CN)							
X				E COLI				4°C			
X				TITO IN ODD YEARS				2268.3			2/28/12
				INDUSTRIAL SAMPLING FEE							

COLLECTED BY **CV + AS** DATE **2/21/12** TIME **1430**

DATE SET _____ TIME SET _____

DATE _____ TIME _____

DATE _____ TIME _____

DATE _____ TIME _____

DATE _____ TIME _____



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ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60116157

Sample: 120228G22 R3 UPSTREAM Lab ID: 60116157002 Collected: 02/28/12 14:50 Received: 02/29/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/01/12 08:40	03/05/12 12:32	7440-43-9	
Copper	22.4	ug/L	10.0	1	03/01/12 08:40	03/05/12 12:32	7440-50-8	
Silver	ND	ug/L	7.0	1	03/01/12 08:40	03/05/12 12:32	7440-22-4	
Zinc	68.6	ug/L	50.0	1	03/01/12 08:40	03/05/12 12:32	7440-66-6	

LAB IDENTIFICATION NUMBER **120228 G 29** UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 3/11/10

SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY **CK** DATE **2-29-12** TIME **0950**

WPC STORMWATER R-4 GRAB
Near 88th St & Woodend
KANSAS CITY, KS

PLASTIC 250mL 500 mL 1000 mL 2000 mL
GLASS 375 mL Disc. 500 mL 1000 mL
OTHER 40 mL Vials Wipepack Sterile Fecal Coliform ON ICE / COOLED

Sampling MH in fenced area
GPS N39 03.090 W94 47.004
GRAB ONLY
Need 1 sample per quarter

TEST	STANDARD METHOD	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
<input checked="" type="checkbox"/> LAB pH Field		4500 H+B						
<input checked="" type="checkbox"/> TSS		2540 D	400		396		JY	2/29/12
<input checked="" type="checkbox"/> BOD		5210 B						
<input checked="" type="checkbox"/> OIL & GREASE (O&G)		5520B	HEI					
<input checked="" type="checkbox"/> AMMONIA - N		4500 NH3 E						
<input checked="" type="checkbox"/> TKN								
<input checked="" type="checkbox"/> PHOSPHORUS		4500 P E						
<input checked="" type="checkbox"/> COD		5520 D						
<input checked="" type="checkbox"/> PHENOL								
<input checked="" type="checkbox"/> ARSENIC (As) TOTAL		200.7						
<input checked="" type="checkbox"/> CADMIUM (Cd) TOTAL		200.7	HA03					
<input checked="" type="checkbox"/> CHROMIUM (Cr) TOTAL		200.7						
<input checked="" type="checkbox"/> COPPER (Cu) TOTAL		200.7						
<input checked="" type="checkbox"/> LEAD (Pb) TOTAL		200.7						
<input checked="" type="checkbox"/> NICKEL (Ni) TOTAL		200.7						
<input checked="" type="checkbox"/> MERCURY (Hg) TOTAL								
<input checked="" type="checkbox"/> SILVER (Ag) TOTAL		200.7						
<input checked="" type="checkbox"/> ZINC (Zn) TOTAL		200.7						
<input checked="" type="checkbox"/> ALUMINUM (Al) TOTAL		200.7						
<input checked="" type="checkbox"/> BERYLLIUM (Be) TOTAL		200.7						
<input checked="" type="checkbox"/> MOLYBDENUM (Mo) TOTAL		200.7						
<input checked="" type="checkbox"/> IRON (Fe) TOTAL		200.7						
<input checked="" type="checkbox"/> SELENIUM (Se) TOTAL		200.7						
<input checked="" type="checkbox"/> THALLIUM (Tl) TOTAL		200.7						
<input checked="" type="checkbox"/> TIN (Sn) TOTAL		200.7						
<input checked="" type="checkbox"/> HEXACHROME (Cr+6)		3500 Cr B						
<input checked="" type="checkbox"/> SURFACTANTS (MBAS)		5540 C						
<input checked="" type="checkbox"/> ITPH								
<input checked="" type="checkbox"/> BTIX								
<input checked="" type="checkbox"/> CCP								
<input checked="" type="checkbox"/> CYANIDE (CN)								
<input checked="" type="checkbox"/> Hardness as CaCO3								
<input checked="" type="checkbox"/> Chloride								
<input checked="" type="checkbox"/> TDS								
<input checked="" type="checkbox"/> E COLI			40		141,83106		KA(L)	29 29/12
<input checked="" type="checkbox"/> TITO IN ODD YEARS								
<input checked="" type="checkbox"/> INDUSTRIAL SAMPLING FEE								

COMMENTS NO ACCESS NO FLOW COLOR ODOR
EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY DATE TIME
COMPOSITE SAMPLES DATE SET TIME SET
SAMPLE VOL ml EVERY MIN
FIRST SAMPLE TAKEN DATE TIME
LAST SAMPLE TAKEN DATE TIME
COLLECTED BY DATE TIME



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60116158

Sample: R4 GRAB 120228G29 Lab ID: 60116158001 Collected: 02/28/12 09:50 Received: 02/29/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/01/12 08:40	03/05/12 12:35	7440-43-9	
Copper	40.3	ug/L	10.0	1	03/01/12 08:40	03/05/12 12:35	7440-50-8	
Lead	21.4	ug/L	5.0	1	03/01/12 08:40	03/05/12 12:35	7439-92-1	
Zinc	314	ug/L	50.0	1	03/01/12 08:40	03/05/12 12:35	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	84.0	mg/L	0.10	1		03/05/12 12:35	7440-70-2	
Magnesium	5.7	mg/L	0.050	1		03/05/12 12:35	7439-95-4	
Total Hardness by 2340B	233	mg/L	0.50	1		03/05/12 12:35		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	8.5	mg/L	5.0	1		03/07/12 14:37		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	305	mg/L	5.0	1		03/03/12 10:37		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	116	mg/L	20.0	20		03/14/12 14:38	16887-00-6	

LAB IDENTIFICATION NUMBER 120229630

3/11/10

SENT TO OUTSIDE LAB FOR OVER

WPC STORMWATER R-4 COMPOSITE
Near 88th St & Woodend
KANSAS CITY, KS

RECEIVED IN LAB BY CW
DATE 2-28-12 TIME 0950
250mL 500 mL 1000 mL 2000 mL 2.5 Gal
375 mL Disc 500 mL 1000 mL 2.5 Gal
40 mL Vials Whirlpak Sterile Fecal Coliform

STANDARD METHODS 20th EDITION	TEST	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
4500 H+ B	LAB pH Field				
2540 D	TSS	736		JY	2/29/12
5210 B	BOD	37.2		KCSY	3/5/12
5520 B	OIL & GREASE (O&G)				
4500 NH3 E	AMMONIA - N				
	TKN				
4500 PE	PHOSPHORUS				
5520 D	COD				
	PHENOL				
	ARSENIC (As) TOTAL				
200.7	CADMIUM (Cd) TOTAL				
200.7	CHROMIUM (Cr) TOTAL				
200.7	COPPER (Cu) TOTAL				
200.7	LEAD (Pb) TOTAL				
200.7	NICKEL (Ni) TOTAL				
200.7	MERCURY (Hg) TOTAL				
200.7	SILVER (Ag) TOTAL				
200.7	ZINC (Zn) TOTAL				
	ALUMINUM (Al) TOTAL				
200.7	BERYLLIUM (Be) TOTAL				
200.7	MOLYBDENUM (Mo) TOTAL				
200.7	IRON (Fe) TOTAL				
200.7	SELENIUM (Se) TOTAL				
200.7	THALIUM (Tl) TOTAL				
200.7	TIN (Sn) TOTAL				
	HEXACHROME (Cr+6)				
3500 Cr-B	SURFACTANTS (MBAS)				
5540 C	TPH				
	BTEX				
	CCFP				
	CYANIDE (CN)				
	Hardness as CaCO3				
	Chloride				
	TDS				
	TTO IN ODD YEARS				
	INDUSTRIAL SAMPLING FEE				
					EACH

Sampling MH in fenced area
GPS N39 03.090 W94 47.004
COMPOSITE
Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY DATE TIME

COMPOSITE SAMPLES DATE SET TIME SET

SAMPLE VOL ml EVERY MIN
FIRST SAMPLE TAKEN DATE TIME
LAST SAMPLE TAKEN DATE TIME
COLLECTED BY DATE TIME



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 9608 Loiret Blvd.
 Lenexa, KS 66219
 (913)599-8665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60116158

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: R4 COMP 120228C30		Lab ID: 60116158002		Collected: 02/28/12 09:50		Received: 02/29/12 15:00		Matrix: Water
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	03/01/12 08:40	03/05/12 12:43	7440-43-9	
Copper	65.8	ug/L	10.0	1	03/01/12 08:40	03/05/12 12:43	7440-50-8	
Silver	ND	ug/L	7.0	1	03/01/12 08:40	03/05/12 12:43	7440-22-4	
Zinc	622	ug/L	50.0	1	03/01/12 08:40	03/05/12 12:43	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	156	mg/L	0.10	1		03/05/12 12:43	7440-70-2	
Magnesium	10.7	mg/L	0.050	1		03/05/12 12:43	7439-95-4	
Total Hardness by 2340B	435	mg/L	0.50	1		03/05/12 12:43		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	447	mg/L	5.0	1		03/03/12 10:37		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	142	mg/L	20.0	20		03/14/12 16:09	16887-00-6	

SENT TO OUTSIDE LAB FOR OVER

RECEIVED IN LAB BY

PLASTIC 500 mL 1000 mL 2000 mL 2.5 Gal

GLASS 375 mL Disc 500 mL 1000 mL 2.5 Gal

OTHER 40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

STANDARD METHODS	TEST	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
20th Edition 4500 H+B	LAB pH Field				
2540 D	G TSS	740		KACY	10/12
5210 B	G BOD				
5520 B	G OIL & GREASE (O&G)				
4500 NH3 E	G AMMONIA - N				
	G TKN				
4500 P H	G PHOSPHORUS				
5520 D	G COD				
	G PHENOL				
	G				
200.7	G ARSENIC (As) TOTAL				
200.7	G CADMIUM (Cd) TOTAL				
200.7	G CHROMIUM (Cr) TOTAL				
200.7	G COPPER (Cu) TOTAL				
200.7	G LEAD (Pb) TOTAL				
200.7	G NICKEL (Ni) TOTAL				
200.7	G MERCURY (Hg) TOTAL				
200.7	G SILVER (Ag) TOTAL				
200.7	G ZINC (Zn) TOTAL				
	G				
200.7	G ALUMINUM (Al) TOTAL				
200.7	G BERYLLIUM (Be) TOTAL				
200.7	G MOLYBDENUM (Mo) TOTAL				
200.7	G IRON (Fe) TOTAL				
200.7	G SELENIUM (Se) TOTAL				
200.7	G THALLIUM (Tl) TOTAL				
200.7	G TIN (Sn) TOTAL				
	G				
3500 C-B	G HEXACHROME (Cr+6)				
5540 C	G SURFACTANTS (MBAS)				
	G TPH				
	G BTEX				
	G CCP				
	G CYANIDE (CN)				
	G				
	G Hardness as CaCO3				
	G				
	G TDS				
	G E COLI				
	G TITO IN ODD YEARS				
	INDUSTRIAL SAMPLING FEE				

WPC STORMWATER R-4 GRAB
Near 88th St & Woodend
KANSAS CITY, KS

Sampling MH in fenced area
GPS N39 03.090 W94 47.004

GRAB
Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY DATE TIME

COMPOSITE SAMPLES DATE SET DATE TIME SET DATE TIME SET

LAST SAMPLE TAKEN DATE TIME SET

SAMPLE VOL SET BY

COLLECTED BY DATE TIME SET

INDUSTRIAL SAMPLING FEE EACH



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 Lenexa, KS 66219
 (913)599-5665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60122520

Sample: 120530G23 R4 GRAB Lab ID: 60122520001 Collected: 05/30/12 12:30 Received: 06/04/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	06/05/12 12:30	06/06/12 12:12	7440-43-9	
Copper	48.7	ug/L	10.0	1	06/05/12 12:30	06/06/12 12:12	7440-50-8	
Lead	32.2	ug/L	5.0	1	06/05/12 12:30	06/06/12 12:12	7439-92-1	
Total Hardness by 2340B	489000	ug/L	500	1	06/05/12 12:30	06/06/12 12:12		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		06/15/12 08:50		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	173	mg/L	5.0	1		06/06/12 13:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	12.5	mg/L	2.0	2		06/14/12 12:57	16887-00-6	

11/5/12

SENT TO OUTSIDE LAB FOR OVER

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER **120530024**

WPC STORMWATER R-4 COMPOSITE
Near 88th St & Woodend
KANSAS CITY, KS

RECEIVED IN
LAB BY

PLASTIC
GLASS
OTHER

DATE _____ TIME _____
2000 mL 2.5 Gal
1000 mL 2.5 Gal
Whirlpak Sterile Fecal Coliform ON ICE / COOLED

STANDARD METHODS 20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE	TEST	
							LAB	pH Field
4500 H+B	500 mL	1000 mL	2000 mL				C	
2540 D	500 mL Disc.	1000 mL	2000 mL				C	
5210 B	40 mL Vials	Whirlpak	2000 mL				C	
5220 B							C	
4500 NH3 E							C	
4500 P E							C	
5520 D							C	
							C	
ARSENIC (As) TOTAL		200.7					C	
CADMIUM (Cd) TOTAL		200.7					C	
CHROMIUM (Cr) TOTAL		200.7					C	
COPPER (Cu) TOTAL		200.7					C	
LEAD (Pb) TOTAL		200.7					C	
NICKEL (Ni) TOTAL		200.7					C	
MERCURY (Hg) TOTAL		200.7					C	
SILVER (Ag) TOTAL		200.7					C	
ZINC (Zn) TOTAL		200.7					C	
ALUMINUM (Al) TOTAL		200.7					C	
BERYLLIUM (Be) TOTAL		200.7					C	
MOLYBDENUM (Mo) TOTAL		200.7					C	
IRON (Fe) TOTAL		200.7					C	
SELENIUM (Se) TOTAL		200.7					C	
THALLIUM (Tl) TOTAL		200.7					C	
TIN (Sn) TOTAL		200.7					C	
HEXACHROME (Cr+6)	3500 Cr B						C	
SURFACTANTS (MBAS)	5540 C						C	
IPH							C	
BTEX							C	
CCFP							C	
CYANIDE (CN)							C	
Hardness as CaCO3							C	
TDS							C	
TTO IN ODD YEARS							C	
INDUSTRIAL SAMPLING FEE							C	

Sampling MH in fenced area

GPS N39 03.090 W94 47.004

COMPOSITE

Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____

COMPOSITE SAMPLES FIRST SAMPLE TAKEN DATE _____ TIME SET _____ TIME
LAST SAMPLE TAKEN DATE _____ TIME SET _____ TIME

SAMPLE VOL _____ ml EVERY _____ MIN

SET BY _____ DATE _____ TIME _____

COLLECTED BY _____ DATE _____ TIME _____

INDUSTRIAL SAMPLING FEE _____ EACH



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 9608 Loiret Blvd.
 Lenexa, KS 66219
 (913)598-5865

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60122520

Sample: 120530G24 R4 COMP Lab ID: 60122520002 Collected: 05/30/12 03:06 Received: 06/04/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	5.0	1	06/05/12 12:30	06/06/12 12:14	7440-43-9	
Copper	32.0	ug/L	10.0	1	06/05/12 12:30	06/06/12 12:14	7440-50-8	
Lead	16.0	ug/L	5.0	1	06/05/12 12:30	06/06/12 12:14	7439-92-1	
Total Hardness by 2340B	242000	ug/L	500	1	06/05/12 12:30	06/06/12 12:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	150	mg/L	5.0	1		06/06/12 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	9.1	mg/L	2.0	2		06/14/12 14:14	16887-00-6	

LAB IDENTIFICATION NUMBER **120808610** UNIFIED GOVERNMENT OF WYANDOTTIE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 3/11/10

SENT TO OUTSIDE LAB FOR OVER
 RECEIVED IN LAB BY **KACAS** DATE **9/05** TIME
 PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whirlpak Sterile Feed Coliform ON ICE / COOLED

LAB	TEST	STANDARD METHOD	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
X	TSS	2540 D			1352		KACE	8/13/12
X	BOD	5210 B						
X	OIL & GREASE (O&G)	5520 B						
	AMMONIA - N	4500 NH3 E						
	TKN							
	PHOSPHORUS	4300 P E						
	COD	5520 D						
	PHENOL							
X	ARSENIC (As) TOTAL	200.7						
X	CADMIUM (Cd) TOTAL	200.7						
X	CHROMIUM (Cr) TOTAL	200.7						
X	COPPER (Cu) TOTAL	200.7						
X	LEAD (Pb) TOTAL	200.7						
	NICKEL (Ni) TOTAL	200.7						
	MERCURY (Hg) TOTAL	200.7						
	SILVER (Ag) TOTAL	200.7						
	ZINC (Zn) TOTAL	200.7						
	ALUMINUM (Al) TOTAL	200.7						
	BERYLLIUM (Be) TOTAL	200.7						
	MOLYBDENUM (Mo) TOTAL	200.7						
	IRON (Fe) TOTAL	200.7						
	SELENIUM (Se) TOTAL	200.7						
	THALLIUM (Tl) TOTAL	200.7						
	TIEN (Sn) TOTAL	200.7						
	CHLORINE							
	HEXACHROME (Cr+6)	3500 Cr B						
	SURFACTANTS (MBAS)	5540 C						
	TPH							
	BTEX							
	COFP							
	CYANIDE (CN)							
X	Hardness as CaCO3	-3						
X	Chloride	-4						
X	TDS	-4						
X	E COLI	-5						
	TTO IN ODD YEARS				10,112		KACAS	8/13/12
X	INDUSTRIAL SAMPLING FEE							EACH

WPC STORMWATER R-4 GRAB
 Near 88th St & Woodend
 KANSAS CITY, KS

Sampling MH in fenced area
 GPS N39 03.090 W94 47.004
 ANALYZE pH ON-SITE
 GRAB ONLY
 Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY **S. Calhoun** DATE **8/12** TIME **7:23**

COMPOSITE SAMPLES DATE SET TIME SET
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN DATE TIME
 LAST SAMPLE TAKEN DATE TIME
 COLLECTED BY DATE TIME



ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G40-2 R-4 GRAB		Lab ID: 60126794001	Collected: 08/08/12 19:23	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		08/17/12 10:18		



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60126794

Sample: 120808G40-3 R-4 GRAB		Lab ID: 60126794002	Collected: 08/08/12 19:23	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/13/12 12:30	08/14/12 10:29	7440-43-9	
Copper	67.1	ug/L	10.0	1	08/13/12 12:30	08/14/12 10:29	7440-50-8	
Lead	34.5	ug/L	5.0	1	08/13/12 12:30	08/14/12 10:29	7439-92-1	
Total Hardness by 2340B	920000	ug/L	500	1	08/13/12 12:30	08/14/12 10:29		



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60126794

Sample: 120808G40-4 R-4 GRAB		Lab ID: 60126794003	Collected: 08/08/12 19:23	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	239	mg/L	5.0	1		08/10/12 09:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	13.3	mg/L	2.0	2		08/16/12 18:45	16887-00-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G41-3 R-4 COMP		Lab ID: 60126794004	Collected: 08/08/12 20:59	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/14/12 08:50	08/15/12 12:21	7440-43-9	
Copper	42.2	ug/L	10.0	1	08/14/12 08:50	08/15/12 12:21	7440-50-8	
Silver	ND	ug/L	7.0	1	08/14/12 08:50	08/15/12 12:21	7440-22-4	
Total Hardness by 2340B	481000	ug/L	500	1	08/14/12 08:50	08/15/12 12:21		
Zinc	292	ug/L	50.0	1	08/14/12 08:50	08/15/12 12:21	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G41-4 R-4 COMP		Lab ID: 60126794005	Collected: 08/08/12 20:59	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	326	mg/L	5.0	1		08/10/12 09:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	41.9	mg/L	10.0	10		08/16/12 19:39	16887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER 12003632 11/1/07
 WPC STORMWATER R-5 GRAB
 1001 S 68th Street
 KANSAS CITY, KS

RECEIVED IN LAB BY WMS DATE 2/3/12 TIME 2:5 Gal
 PLASTIC 250mL 1000 mL 2000 mL
 GLASS 375 mL Disc. 500 mL 1000 mL
 OTHER 40 mL Vials
 Sterile Feed Coliform

TEST	STANDARD METHOD	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B					S.U.		
AMMONIA - N	4500 NH3 E					ug/L		
COD	5220 D					mg/L		
OIL & GREASE	5520 B					mg/L		
PHOSPHOROUS	4500 P E					mg/L		
TKN						mg/L		
TSS	2540 D				39	mg/L	JY	2/6/12
VSS	2540 E					mg/L		
MOD	5210 B					mg/L		
CPD	5210 B					mg/L		
SURF (MBAS)	5540 C					mg/L		
ARSENIC (TOTAL)	200.7					mg/L		
CADMIUM (TOTAL)	200.7					ug/L		
CHROMIUM (TOTAL)	200.7					ug/L		
COPPER (TOTAL)	200.7					ug/L		
LEAD (TOTAL)	200.7					ug/L		
NICKEL (TOTAL)	200.7					ug/L		
SILVER (TOTAL)	200.7					ug/L		
ZINC (TOTAL)	200.7					ug/L		
MERCURY (TOTAL)						ug/L		
PHENOL						mg/L		
NITRATE (NO3)						mg/L		
NITRITE (NO2)						mg/L		
TPH						%		
BTEX						mg/L		
CCP								
CYANIDE								
E. Coli					30		KA (RJ)	2/4/12
ITO IN ODD YEARS						mg/L		
INDUSTRIAL SAMPLING FEE								

Sampling MH in fenced area

Notes

GRAB ONLY

Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR

EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY Michael Miller

DATE 2-3-12 TIME 7:30AM

COMPOSITE SAMPLES DATE SET TIME SET

SET BY

SAMPLE VOL ml EVERY MIN

FIRST SAMPLE TAKEN DATE TIME 7:30AM

LAST SAMPLE TAKEN DATE TIME 7:45AM

COLLECTED BY

DATE TIME



Pace Analytical Services, Inc.
 9608 Loiret Blvd.
 Lenexa, KS 66219
 (913)599-5665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Sample: 120203G32 R5-GRAB Lab ID: 60114867007 Collected: 02/03/12 13:15 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:24	7440-43-9	
Copper	31.4	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:24	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:24	7440-22-4	
Zinc	50.9	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:24	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	17.8	mg/L	0.20	2		02/07/12 15:28	7440-70-2	
Magnesium	2.3	mg/L	0.050	1		02/07/12 11:24	7439-95-4	
Total Hardness	53.6	mg/L	1.0	2		02/07/12 15:28		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	91.0	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	6.2	mg/L	1.0	1		02/22/12 09:55	16887-00-6	



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 120203C33 R5-COMP Lab ID: 60114867008 Collected: 02/03/12 13:15 Received: 02/04/12 09:18 Matrix: Water								
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:28	7440-43-9	
Copper	34.8	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:28	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:28	7440-22-4	
Zinc	280	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:28	7440-66-6	
2340B Hardness, Total (Calc.) Analytical Method: SM 2340B								
Calcium	46.9	mg/L	0.20	2		02/07/12 15:31	7440-70-2	
Magnesium	7.4	mg/L	0.050	1		02/07/12 11:28	7439-95-4	
Total Hardness	147	mg/L	1.0	2		02/07/12 15:31		
2540C Total Dissolved Solids Analytical Method: SM 2540C								
Total Dissolved Solids	144	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	11.8	mg/L	2.0	2		02/22/12 10:11	16887-00-6	

UNIFIED GOVERNMENT OF WYANDOTTIE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY

LAB IDENTIFICATION NUMBER **1202026734** SENT TO OUTSIDE LAB FOR **11/1/07** OVER

WPC STORMWATER R-7 GRAB
4900 Speaker Road
KANSAS CITY, KS

RECEIVED IN LAB BY *[Signature]*

DATE **2/3/12** TIME **1015**
 2000 mL 2.5 Gal
 500 mL 500 mL
 375 mL Diss. Whirlpak
 40 mL Vials Sterile Fecal Coliform

TEST	STD METHODS	PRESERVED	LIMIT	RESULT	UNT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B				S.U.		
AMMONIA - N	4500 NH3 E				ug/L		
COD	5220 D				mg/L		
OIL & GREASE	5520 B				mg/L		
PHOSPHOROUS	4500 P E				mg/L		
TKN					mg/L		
TSS	2540 D			98	mg/L	KASJY	2/7/12
VSS	2540 F				mg/L		
BOD	5210 B				mg/L		
CBOD	5210 B				mg/L		
SURF (MBAS)	5540 C				mg/L		
ARSENIC (TOTAL)	200.7				mg/L		
CADMIUM (TOTAL)	200.7				mg/L		
CHROMIUM (TOTAL)	200.7				ug/L		
COPPER (TOTAL)	200.7				ug/L		
LEAD (TOTAL)	200.7				ug/L		
NICKEL (TOTAL)	200.7				ug/L		
SILVER (TOTAL)	200.7				ug/L		
ZINC (TOTAL)	200.7				ug/L		
MERCURY (TOTAL)	200.7				ug/L		
PHENOL					mg/L		
NITRATE (NO3)							
NITRITE (NO2)							
TPH							
BTEX					mg/L		
CCFP							
CYANIDE					%		
ES				3448		KASJY	2/3/12
TTO IN ODD YEARS					mg/L		
INDUSTRIAL SAMPLING FEE							

Sampling MH in fenced area

Notes

GRAB ONLY

Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR

EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY **Michael Miller**

DATE **2-3-12** TIME **7:45 AM**

COMPOSITE SAMPLES DATE SET TIME SET

SET BY

SAMPLE VOL ml EVERY MIN

FIRST SAMPLE TAKEN DATE TIME

LAST SAMPLE TAKEN DATE TIME

COLLECTED BY DATE TIME



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 120203G34 R7-GRAB Lab ID: 60114867009 Collected: 02/03/12 16:15 Received: 02/04/12 09:18 Matrix: Water								
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:31	7440-43-9	
Copper	12.5	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:31	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:31	7440-22-4	
Zinc	256	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:31	7440-66-6	
2340B Hardness, Total (Calc.) Analytical Method: SM 2340B								
Calcium	30.4	mg/L	0.20	2		02/07/12 15:35	7440-70-2	
Magnesium	1.5	mg/L	0.050	1		02/07/12 11:31	7439-95-4	
Total Hardness	82.1	mg/L	1.0	2		02/07/12 15:35		
2540C Total Dissolved Solids Analytical Method: SM 2540C								
Total Dissolved Solids	1050	mg/L	5.0	1		02/08/12 13:32		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	536	mg/L	100	100		02/22/12 10:28	16887-00-6	

LAB IDENTIFICATION NUMBER 120203020 UNIFIED GOVERNMENT OF WYANDOTTIE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/1/07

SENT TO OUTSIDE LAB FOR _____ RECEIVED IN LAB BY _____
 WPC STORMWATER R-7 COMPOSITE
 4900 Speaker Road
 KANSAS CITY, KS

DATE 2/3/12 TIME 11:10
 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 40 mL Vials W/stripak Sterile Fecal Coliform ON ICE / COOLED

TEST	STD METHODS	20th EDITION	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
GRAB FIELD pH LAB	4500 H + B					S.U.		
AMMONIA - N	4500 NH3 E					mg/L		
COD	5220 D					mg/L		
OIL & GREASE	5520 B					mg/L		
PHOSPHOROUS	4500 P E					mg/L		
TKN						mg/L		
TSS	2540 D					mg/L		
VSS	2540 E					mg/L		
BOD	5210 B					mg/L		
CHOD	5210 B					mg/L		
STURF (MBAS)	5540 C					mg/L		
ARSENIC (TOTAL)	200.7					mg/L		
CADMIUM (TOTAL)	200.7					mg/L		
CHROMIUM (TOTAL)	200.7					mg/L		
COPPER (TOTAL)	200.7					ug/L		
LEAD (TOTAL)	200.7					ug/L		
NICKEL (TOTAL)	200.7					ug/L		
SILVER (TOTAL)	200.7					ug/L		
ZINC (TOTAL)	200.7					ug/L		
MERCURY (TOTAL)						ug/L		
PHENOL						mg/L		
NITRATE (NO3)						mg/L		
NITRITE (NO2)						%		
IPH								
BTEX						mg/L		
CCFP								
CYANIDE								
ITO IN ODD YEARS						mg/L		
INDUSTRIAL SAMPLING FEE						EACH		

Notes
 Composite
 Need 1 sample per quarter

Comments NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE

GRAB SAMPLES COLLECTED BY _____ DATE _____ TIME _____
 COMPOSITE SAMPLES DATE SET 2-2-12 TIME SET 2:00PM
 SET BY Michael Miller
 SAMPLE VOL _____ ml EVERY _____ MIN
 FIRST SAMPLE TAKEN DATE 2-3-12 TIME 7:43AM
 LAST SAMPLE TAKEN DATE 2-3-12 TIME 8:43AM
 COLLECTED BY Michael Miller
 DATE 2-3-12 TIME 3:30PM



ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60114867

Sample: 120203C35 R7-COMP Lab ID: 60114867010 Collected: 02/03/12 16:15 Received: 02/04/12 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	02/06/12 15:45	02/07/12 11:35	7440-43-9	
Copper	26.2	ug/L	10.0	1	02/06/12 15:45	02/07/12 11:35	7440-50-8	
Silver	ND	ug/L	7.0	1	02/06/12 15:45	02/07/12 11:35	7440-22-4	
Zinc	672	ug/L	50.0	1	02/06/12 15:45	02/07/12 11:35	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Calcium	82.6	mg/L	0.50	5		02/07/12 15:38	7440-70-2	
Magnesium	4.1	mg/L	0.050	1		02/07/12 11:35	7439-95-4	
Total Hardness	223	mg/L	2.5	5		02/07/12 15:38		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	294	mg/L	5.0	1		02/08/12 13:33		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	159	mg/L	20.0	20		02/23/12 12:59	16887-00-6	

LAB IDENTIFICATION NUMBER **120524944** UNITED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 11/5/12

SENT TO OUTSIDE LAB FOR _____
 RECEIVED IN LAB BY _____
 DATE _____ TIME _____
 WPC STORMWATER R-7 GRAB
 4900 Speaker Road
 KANSAS CITY, KS

STANDARD METHODS	TEST	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
250mL	G LAB pH				
1000 mL	G TSS				
500 mL	G BOD				
500 mL	G OIL & GREASE (O&G)				
Whispak	G AMMONIA - N				
40 mL Vials	G TKN				
	G PHOSPHORUS				
	G COD				
	G PHENOL				
	G ARSENIC (As) TOTAL				
	G CADMIUM (Cd) TOTAL				
	G CHROMIUM (Cr) TOTAL				
	G COPPER (Cu) TOTAL				
	G LEAD (Pb) TOTAL				
	G NICKEL (Ni) TOTAL				
	G MERCURY (Hg) TOTAL				
	G SILVER (Ag) TOTAL				
	G ZINC (Zn) TOTAL				
	G ALUMINUM (Al) TOTAL				
	G BERYLLIUM (Be) TOTAL				
	G MOLYBDENUM (Mo) TOTAL				
	G IRON (Fe) TOTAL				
	G SELENIUM (Se) TOTAL				
	G THALLIUM (Tl) TOTAL				
	G TIN (Sn) TOTAL				
	G HEXACHROME (Cr+6)				
	G SURFACTANTS (MBAS)				
	G TPH				
	G BTEX				
	G COPP				
	G CYANIDE (CN)				
	G Hardness as CaCO3				
	G TDS				
	G E COLI				
	G TIO IN ODD YEARS				
	INDUSTRIAL SAMPLING FEE				

PLASTIC 250mL 500 mL 1000 mL 2000 mL 2.5 Gal
 GLASS 375 mL Disc. 500 mL 1000 mL 2.5 Gal
 OTHER 40 mL Vials Whispak Sterile Feat Coliform ON ICE / COOLED

Sampling MH in fenced area
 GPS N39 05.927 W94 41.202
 GRAB
 Need 1 sample per quarter

COMMENTS NO ACCESS NO FLOW COLOR ODOR
 EXCESS FOAM FOAM RESPONSE SPILL RESPONSE
 GRAB SAMPLES COLLECTED BY DATE TIME
 COMPOSITE SAMPLES DATE SET TIME SET TIME
 FIRST SAMPLE TAKEN DATE TIME
 LAST SAMPLE TAKEN DATE TIME
 SAMPLE VOL ml EVERY MN
 SET BY
 COLLECTED BY DATE TIME

DATE 11/5/12
 TIME 1:10
 ANALYZED BY (KAY) 5/26/12
 UNIT EACH



Pace Analytical Services, Inc.
 9608 Loiret Blvd.,
 Lenexa, KS 66219
 (813)598-5685

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60122119

Sample: 120524G44 R-7 GRAB Lab ID: 60122119001 Collected: 05/25/12 13:20 Received: 05/25/12 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	05/31/12 16:20	06/04/12 20:15	7440-43-9	
Copper	37.4	ug/L	10.0	1	05/31/12 16:20	06/04/12 20:15	7440-50-8	
Total Hardness by 2340B	210000	ug/L	500	1	05/31/12 16:20	06/05/12 12:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	229	mg/L	5.0	1		05/31/12 16:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	9.8	mg/L	2.0	2		06/09/12 12:49	16887-00-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60122119

Sample: 120524C45 R-7 COMP Lab ID: 60122119002 Collected: 05/25/12 13:20 Received: 05/25/12 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	05/31/12 16:20	06/04/12 20:18	7440-43-9	
Copper	29.2	ug/L	10.0	1	05/31/12 16:20	06/04/12 20:18	7440-50-8	
Total Hardness by 2340B	273000	ug/L	500	1	05/31/12 16:20	06/05/12 12:05		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	474	mg/L	5.0	1		05/31/12 16:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	29.4	mg/L	2.0	2		06/09/12 13:04	16887-00-6	

LAB IDENTIFICATION NUMBER **120808G47** UNITED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS CHAIN OF CUSTODY AND SAMPLE REPORT SUMMARY 3/11/10

WPC STORMWATER R-7 GRAB
4900 Speaker Road
KANSAS CITY, KS

SENT TO OUTSIDE LAB FOR OVER
DATE **8/1/12** TIME
2000 mL 2.5 Gal
500 mL 500 mL
375 mL Disc. 1000 mL
40 mL Vials Whirlpak Sterile Fecal Coliform ON ICE / COOLED

RECEIVED IN LAB BY **KACAJ**
LABORATORY TEST FIELD
FLASTIC
GLASS
OTHER

STANDARD METHODS 20th EDITION	TEST	PRESERVED	LIMIT	RESULT	UNIT	ANALYZED BY	ANALYSIS DATE
4500 H-B	G LAB PH Field						
2540 D	C TSS			184		KACAJ	8/1/12
5210 B	C BOD						
5320 B	G OIL & GREASE (O&G)						
4500 NH-B	C AMMONIA - N						
	C IKN						
4500 P-E	C PHOSPHORUS						
5520 D	C COD						
	C PHENOL						
200.7	C ARSENIC (As) TOTAL						
200.7	C CADMIUM (Cd) TOTAL						
200.7	C CHROMIUM (Cr) TOTAL						
200.7	C COPPER (Cu) TOTAL						
200.7	C LEAD (Pb) TOTAL						
200.7	C NICKEL (Ni) TOTAL						
200.7	C MERCURY (Hg) TOTAL						
200.7	C SILVER (Ag) TOTAL						
200.7	C ZINC (Zn) TOTAL						
200.7	C ALUMINUM (Al) TOTAL						
200.7	C BERYLLIUM (Be) TOTAL						
200.7	C MOLYBDENUM (Mo) TOTAL						
200.7	C IRON (Fe) TOTAL						
200.7	C SELENIUM (Se) TOTAL						
200.7	C THALIUM (Tl) TOTAL						
200.7	C TIN (Sn) TOTAL						
3500 C-B	G HEXACHROME (Cr+6)						
5540 C	G SURFACTANTS (MBAS)						
	G TPH						
	G BTEX						
	G COPP						
	G CYANIDE (CN)						
	G Hardness as CaCO3						
	C Chloride						
	C TDS						
	C E COLI						
	G TPO IN ODD YEARS						
	INDUSTRIAL SAMPLING FEE						

COMMENTS: NO ACCESS NO FLOW COLOR ODOR
FOAM RESPONSE SPILL RESPONSE

EXCESS FOAM

GRAB SAMPLES COLLECTED BY **J. Cahoon**
DATE **7/6/12** TIME **7:43**

COMPOSITE SAMPLES SET BY
DATE SET TIME SET

SAMPLE VOL ml EVERY MIN

FIRST SAMPLE TAKEN DATE TIME

LAST SAMPLE TAKEN DATE TIME

COLLECTED BY DATE TIME

Sampling MH in fenced area
GPS N39 05.927 W94 41.202
GRAB ONLY
Need 1 sample per quarter

EACH

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G47-2 R-7 GRAB **Lab ID: 60126794011** Collected: 08/08/12 19:43 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/14/12 08:50	08/15/12 12:44	7440-43-9	
Copper	22.6	ug/L	10.0	1	08/14/12 08:50	08/15/12 12:44	7440-50-8	
Silver	ND	ug/L	7.0	1	08/14/12 08:50	08/15/12 12:44	7440-22-4	
Total Hardness by 2340B	165000	ug/L	500	1	08/14/12 08:50	08/15/12 12:44		
Zinc	440	ug/L	50.0	1	08/14/12 08:50	08/15/12 12:44	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G47-3 R-7 GRAB		Lab ID: 60126794012	Collected: 08/08/12 19:43	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	301	mg/L	5.0	1		08/10/12 09:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	14.9	mg/L	2.0	2		08/16/12 20:34	16887-00-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G48-2 R-7 COMP		Lab ID: 60126794013	Collected: 08/08/12 21:18	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	08/14/12 08:50	08/15/12 12:48	7440-43-9	
Copper	37.6	ug/L	10.0	1	08/14/12 08:50	08/15/12 12:48	7440-50-8	
Silver	ND	ug/L	7.0	1	08/14/12 08:50	08/15/12 12:48	7440-22-4	
Total Hardness by 2340B	172000	ug/L	500	1	08/14/12 08:50	08/15/12 12:48		
Zinc	1080	ug/L	50.0	1	08/14/12 08:50	08/15/12 12:48	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60126794

Sample: 120808G48-3 R-7 COMP		Lab ID: 60126794014	Collected: 08/08/12 21:18	Received: 08/09/12 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	162	mg/L	5.0	1		08/10/12 09:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	6.2	mg/L	2.0	2		08/16/12 20:52	16887-00-6	



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 9608 Lolret Blvd.
 Lenexa, KS 66219
 (913)599-5665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60131585

Sample: 121017G30-2 Lab ID: 60131585001 Collected: 10/18/12 09:50 Received: 10/19/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Cadmium	ND	ug/L	5.0	1	10/27/12 14:45	10/29/12 17:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/27/12 14:45	10/29/12 17:56	7440-47-3	
Lead	ND	ug/L	5.0	1	10/27/12 14:45	10/29/12 17:56	7439-92-1	
Total Hardness by 2340B	47500	ug/L	500	1	10/27/12 14:45	10/29/12 17:56		
Zinc	292	ug/L	50.0	1	10/27/12 14:45	10/29/12 17:56	7440-66-6	

ANALYTICAL RESULTS

Project: STORMWATER

Pace Project No.: 60131585

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 121017G30-3 Lab ID: 60131585002 Collected: 10/18/12 09:50 Received: 10/19/12 10:00 Matrix: Water								
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	86.0	mg/L	5.0	1		10/24/12 15:35		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	7.7	mg/L	2.0	2		10/29/12 13:25	16887-00-6	

ANALYTICAL RESULTS

Project: STORMWATER
Pace Project No.: 60131585

Sample: 121017G31-2	Lab ID: 60131585003	Collected: 10/18/12 15:14	Received: 10/19/12 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND ug/L		5.0	1	10/27/12 14:45	10/29/12 18:03	7440-43-9	
Copper	ND ug/L		10.0	1	10/27/12 14:45	10/29/12 18:03	7440-50-8	
Total Hardness by 2340B	41800 ug/L		500	1	10/27/12 14:45	10/29/12 18:03		
Zinc	219 ug/L		50.0	1	10/27/12 14:45	10/29/12 18:03	7440-66-6	



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 9808 Loiret Blvd.
 Lenexa, KS 66219
 (913)598-5665

ANALYTICAL RESULTS

Project: STORMWATER
 Pace Project No.: 60131585

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 121017G31-3 Lab ID: 60131585004 Collected: 10/18/12 15:14 Received: 10/19/12 10:00 Matrix: Water								
2540C Total Dissolved Solids Analytical Method: SM 2540C								
Total Dissolved Solids	78.0	mg/L	5.0	1		10/24/12 15:35		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	7.6	mg/L	2.0	2		10/29/12 13:43	16887-00-6	

Appendix G1

Stormwater Customer Drainage Fee – Rate Increase Documentation



Unified Government Finance Office

Lew Levin
Chief Financial Officer

701 North 7th Street, Suite 330
Kansas City, Kansas 66101-3065

Phone: (913) 573-5186
Fax: (913) 573-5003

August 18, 2011

Terry Eidson, President Board of Public Utilities
Board of Public Utilities
540 Minnesota Avenue
Kansas City, KS 66101-2930

Don Gray, General Manager
Board of Public Utilities
540 Minnesota Avenue
Kansas City, KS 66101-2930

Dear Mr. Eidson and Mr. Gray:

The intent of this letter is to provide formal notification of various actions taken by the Unified Government Board of Commissioners on July 28th of 2011. These actions will impact future customer billing for BPU. I have attached copies of the specific resolution regarding the PILOT rate and an ordinance pertaining to sewer and storm and surface water fees. In addition, the Commission approved as part of the budget a billing change for County-owned buildings. A brief summary of the actions is detailed below.

1. Ordinance No. O-32-11 increases the storm water customer drainage fee for each and every developed property within the city from \$4.00 per month to \$4.50 per month, effective January 1, 2012. *(This increase should be reflected on all billings on or after January 1, 2012.)*
2. Ordinance No. R-32-11 increases the Sewer System Abatement Fees as shown in the attachment for water purchased on or after January 1, 2012. This rate increase is effective January 1, 2012.
3. Resolution R-50-11 extends the Economic Crisis Emergency PILOT for an additional year. However, effective January 1, 2012, the PILOT percentage is reduced from 11.9% to 10.9%.
4. Included in the 2011 amended budget and the 2012 budget is the ceasing of BPU utility payments for County-owned facilities, effective September 1st of 2011. Utility charges will continue for facilities of the Water Pollution Control Division and the Sunflower Hills golf course. Based on an initial discussion, the BPU Finance Department will provide a listing of Unified Government County facilities that this action applies to for verification by Unified Government Finance staff.

We are appreciative of your staff's assistance in the implementation of these fee and billing changes. Feel free to call, if you have any specific questions.

Sincerely,

Lew Levin, Chief Financial Officer

cc: Dennis Hays, County Administrator
Jody Boeding, Chief Legal Counsel
Bob Roddy, Assistant County Administrator
Lori Austin, BPU Manager of Accounting and Finance/CFO

**REGULATION ESTABLISHING RATES
FOR SEWER SERVICE CHARGES**

**Adopted Pursuant to Section 30-96 of the Code
of the Unified Government of Wyandotte County/Kansas City, Kansas
July 29, 2010**

Effective January 1, 2012

Water Pollution Abatement Rate Structure

The rate structure is as follows:

	Current	1-1-2012 15% Increase
Monthly Base Charge	\$11.18	\$12.86
Unit Charges (per 100 cubic feet)		
Class IA	\$2.52	\$2.90
Class IB	\$2.52	\$2.90
Class II (Restaurant (Food Establishment))	\$3.40	\$3.91
Surcharges for Excess Loadings (Per Pound)		
TSS above 250mg/l	\$0.1978	\$0.2275
COD above 375 mg/l	\$0.1484	\$0.1707
O&G above 30mg/l	\$0.0695	\$0.0800
LPS Class 080A Monthly Base Charge	\$18.72	\$21.53