



MSD

*Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org*

October 30, 2008

Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
Post Office Box 7611
Washington DC 20044-7611

Subject: Quarterly Report Number 12
September 30, 2008
DOJ Case No. 90-5-1-1-08254

Attention Chief:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 25 of our Consent Decree. This report is for the period July 1, 2008 through September 30, 2008.

This report is organized to deliver the requirements as defined in Paragraph 25 of the Consent Decree and provides an overview of significant program elements, issues, and accomplishments pertaining to Consent Decree compliance activities. Included are sections on: significant accomplishments, current activities review, performance overview, and planned activities.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions or need additional information, please contact me at (502) 649-3850.

Sincerely,

W. Brian Bingham
Regulatory Services Director

Q12 Certification EPA 10-30-08

cc: H. J. Schardein, Jr.

Paula Purifoy

Laurence J. Zielke



*Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com*



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October 30, 2008

Chief, Water Programs Enforcement Branch
Water Management Program
US EPA Region 4
Atlanta Federal Center
61 Forsyth Street SW
Atlanta, GA 30303

Subject: Quarterly Report Number 12
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Sincerely,

W. Brian Bingham
Regulatory Services Director

Q11 Certification EPA 10-30-08

cc: H. J. Schardein, Jr.

Paula Purifoy

Laurence J. Zielke



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October 30, 2008

Jeff Cummins, Acting Director
Division of Enforcement
Department of Environmental Protection
14 Reilly Road
Frankfort, KY 40601

Subject: Quarterly Report Number 12
September 30, 2008
DOJ Case No. 90-5-1-1-08254

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Sincerely,

W. Brian Bingham
Regulatory Services Director

Q12 Certification KDEP 10-30-08

cc: H. J. Schardein, Jr.

Paula Purifoy

Laurence J. Zielke



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www.louisvillegreen.com

Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #12



Reporting Period:

July 1, 2008 through September 30, 2008

Submitted To:

Kentucky Department of Environmental Protection
United States Environmental Protection Agency
United States Department of Justice

Submitted By:

Louisville and Jefferson County Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1911

Submittal Date:

October 30, 2008

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INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into a Consent Decree with the Kentucky Department of Environmental Protection (KDEP) and the United States Environmental Protection Agency (EPA). The Consent Decree was signed by United States District Judge Simpson and entered in United States District Court, Western Division of Kentucky, Louisville Division, on August 12, 2005.

This is the twelfth Quarterly Report submitted in accordance with Paragraph 25 of the Consent Decree. This report covers the time period from July 1, 2008, through September 30, 2008. The structure for this report is outlined as follows:

Section 1: Project WIN Program Activities Performed during the Reporting Period (excluding CMOM) - This section describes the scope, schedule and status for projects and other activities that were active during the reporting period July 1, 2008, through September 30, 2008. The projects and activities described are those that demonstrate the efforts conducted to comply with the Consent Decree.

Section 2: Performance Overview - This section provides an accounting of the number of occurrences of overflows, including unauthorized discharges, from the separate sanitary sewer and combined sewer system and the estimated volumes of each. A discussion of the probable reductions, in both unauthorized discharge points and the discharges from MSD's Combined Sewer Overflow (CSO) locations, identified in the Morris Forman Wastewater Treatment Plant (WWTP) Kentucky Pollutant Discharge Elimination System (KPDES) permit, that are expected to result from MSD's projects and activities during the reporting period are also contained in this section.

Section 3: Project WIN Program Activities for the Next Reporting Period (excluding CMOM) - This section describes the anticipated projects and activities that are scheduled to be performed during the next reporting period (October 1, 2008 through December 31, 2008) for continued compliance with the Consent Decree.

Section 4: Capacity Management, Operations and Maintenance (CMOM) Report - The program activities performed during the reporting period July 1, 2008 through September 30, 2008 and activities planned for the next reporting period (October 1, 2008 through December 31, 2008) are included in this section.

SECTION 1: Project WIN Program Activities Performed during the Reporting Period

1.1 Nine Minimum Controls Implementation

Per Paragraph 23.a. of the Consent Decree, the Nine Minimum Controls (NMC) Compliance Report was initially submitted to EPA and KDEP on February 10, 2006. MSD received an approval letter, dated February 22, 2007 for the NMC Compliance Report. The approved NMC Compliance document can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin. Highlights of the NMC program implementation over this reporting period are outlined below:

NMC 1: Proper Operation and Maintenance Program

- Inspected and cleaned 5686 catch basins within the combined sewer system (CSS) during this reporting period.
- Continued to inspect, maintain and properly operate the CSS pump stations and the Morris Forman WWTP.
- Performed 1439 weekly inspections on CSOs, 273 creek inspections, and initiated over 126 work orders for debris removal and/or repairs as determined to be necessary to allow proper system operation during this reporting period.
- As part of the gravity sewer preventive maintenance program, MSD cleaned 668 sewer line segments in the CSS, ranging in size from 6 inches to 15 inches, during this reporting period.
- CSO Inventory updated to include revised survey information of elevations, and improvements to the system.
- Created inspection work orders for Fats, Oils, and Grease (FOG) inspections in known hotspots. Based on findings, cleaning work orders will be created.
- During this reporting period three enforcement actions were taken against Food Service Establishments for FOG violations.
- Several projects underway to create improved access to some CSO sites to facilitate cleaning activities. Most of these projects are now in the easement acquisition stage.
- Continued evaluation of CSO quick hit eliminations in concert with Long Term Control Plan efforts.
- Revisions to the CSO components were made in Hansen to show that the regulators have been removed.
- Conducted field verification on the CSOs on September 26, 2008 and September 29, 2008. A technical memorandum will be developed to document the findings.

NMC 2: Maximization of Storage in the Collection System

- Continued operation of Phase I of the Real Time Control system. During this reporting period, approximately 140 MG were stored in the system during rain events and routed to the Morris Forman WWTP once the system was able to handle the flow. See Appendix F for a detailed report.

NMC 3: Review and Modification of Pretreatment Requirements

- Continued to send wet weather alerts to the Non-Domestic Dischargers (NDD) prior to rain events, reminding them of their commitment to implement controls during wet weather events.
- Worked with the top five NDDs to review follow-up documentation requested as a result of the meetings held last quarter. MSD continues to encourage the NDDs to take additional measures where feasible.
- Continued the implementation of the CSO-SIU project in conjunction with the LTCP preparation. Metals data was collected in trunk sewers leading to CSOs to compare to the spreadsheet model predictions and establish confidence in the model. Spreadsheet model predictions for metals discharged to the CSOs were compared to acute water quality standards to determine if there are any new pollutants of concern (POC) for specific CSO outfalls. MSD identified additional POCs at two CSO outfalls and began a review of industrial user data to determine if any users discharge a disproportionate share of that pollutant to the particular CSO outfall. This review and evaluation process may result in identification of new NDDs of concern who will be subject to the same evaluation process (relative to opportunities to reduce/eliminate discharges to CSOs) as the currently identified NDDs under the approved NMC #3 program activities.
- Performance measures to monitor the effectiveness of the implementation of NMC #3 within the Pretreatment Program were approved by MSD management for implementation.

NMC 4: Maximization of Flow at the Morris Forman Wastewater Treatment Plant

- Continued operation of RTC Phase I, which minimizes wet weather overflows from the Southwestern Pump Station, providing an optimized method for delivering more consistent flows into Morris Forman WWTP during and after wet weather events. During this reporting period, approximately 140 MG were stored in the system during rain events and routed to the Morris Forman WWTP once the system was able to handle the flow. See Appendix F for a detailed report.
- Implementation of the RTC Phase II programmatic enhancement initiatives.
- The study to evaluate the use of alternatives to sodium hypochlorite for disinfection during high flows continues due to poor results from the initial testing. Lack of rain during this time frame has interfered with the testing schedule.
- Completed modifications to the Operations web page that displays flow, capacity and percent of capacity at the Morris Forman WWTP.
- There were 3 days during this quarter where the peak flow was over 300 MGD at Morris Forman WWTP. There were no KPDES permit violations at Morris Forman WWTP during this reporting period.

NMC 5: Elimination of CSOs During Dry Weather

- The review of flood pump stations within the CSS to determine if additional operational and/or structural modifications are feasible, further maximizing operations and efficiently

transporting more flow to the Morris Forman WWTP for treatment continued. Modifications to these pump stations will eliminate dry weather CSOs due to high river levels. A technical memorandum will be transmitted as part of the IOAP submitted by December 31, 2008.

- Continued implementation of the Unusual Discharge Request permit program, to prevent negative impacts on the CSS from discharges not already covered by a wastewater discharge permit.
- MSD reports dry weather overflows from the CSS in accordance with the Sewer Overflow Response Protocol (SORP). During this time period there were no dry weather CSOs.

NMC 6: Control of Solid and Floatable Materials in Combined Sewer Overflows

- Continued inspection and maintenance procedures for the solids and floatables structures as part of the weekly CSO inspections and PM cleaning routines, outlined under NMC 1. During this period, 124 work orders were issued for debris removal at the solids and floatables structures.
- Performed extensive review of CSO 146 baffle vault to determine if the low flow line was adequately sized due to slow drainage from the vault. It was determined that the hydraulic review supported the design of the low flow line and further field investigation would need to occur prior to December 31, 2008.

NMC 7: Pollution Prevention Programs to Reduce Contaminants in CSOs

- Continued coordination of activities performed by Louisville Metro such as: street sweeping, Operation Brightside (garbage pick-up), and other Metro pollution prevention programs.



Installation of Pervious Concrete at the Main Office

- On August 12, 2008, MSD installed pervious pavement in the Main Office parking lot around nine catch basins. The intent is to minimize the amount of runoff water that enters the combined sewer system. MSD installed 258 square yards of pervious concrete.

- Continued administration of the Hazardous Materials Ordinance, which requires users with hazardous materials on site to submit a spill prevention and control plan. Continued response to spills of hazardous materials and incidents involving discharges to the sewer system and provide spill mitigation kits to the Louisville Metro Fire Department to use to absorb vehicle fluids rather than flushing to the sewer.
- Continued administration of the Erosion Prevention and Sediment Control Ordinance.
- Continued issuance of Wastewater Discharge Permits under the Industrial Pretreatment Program.

NMC 8: Public Notification

- Continued to update the Project WIN website. Customers who voluntarily sign up to receive email alerts regarding sewer overflows will now receive a revised notice that indicates when overflow conditions have returned to normal. In addition, there are messages from MSD, a repository of approved documents, Stakeholder meeting minutes and access to a public notification email system. This website can be found at www.msdlouky.org/projectwin.
- Advertisements to inform the public on Project WIN activities were published during the months of August and September in *Business First* and July and September in *Louisville Magazine*.
- Advertisement to inform the public on Project WIN activities was published during the month of September in *Today's Woman*.
- MSD *Update* was sent to customers and staff in July, August and September. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- Article published on the closure of CSO33 and CSO30 in the August 2008 addition of the MSD Update. These CSOs are located on the Central Relief Drain in Old Louisville.
- MSD developed radio spots from the key values defined by the WWT Stakeholders Group. These radio spots ran 2 days in September and will continue to run through November 2008. The messages focus on the five key messages of Project WIN. The thirty second radio commercials on WHAS Radio highlight MSD tips and/or initiatives. Airing 3 times per week Monday-Friday from 6:00am-7:00pm and 1 time per week on Saturdays from 9:00am-11:00am. The five key messages of Project WIN are as follows:
 1. Value clean water.
 2. Your investment is paying dividends and our water is getting cleaner.
 3. Protecting public health is critically important.
 4. MSD and many community partners are working hard to improve water quality.
 5. You can make a difference.
- MSD's Customer Relations Department mailed 310 Project WIN information packets to customers who called the department with questions about the Louisville Consent

Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge.

NMC 9: Monitoring to Characterize CSO Impacts and the Efficacy of CSO Controls

- Continued development of a draft of the Post Construction Monitoring Plan section of the Integrated Overflow Abatement Plan. This plan outlines the monitoring and modeling procedures to be followed to assess combined sewer overflow reduction through traditional overflow controls as well as reductions due to source control related to green infrastructure.
- Continued to monitor the largest CSOs for flow volume to define the wet weather contribution of the overflows to the stream. In addition, the following monitoring activities have occurred:
 - Continued project to install flow meters at CSO62 and CSO146. Project costs are being developed for the meters, telemetry and power needed for installation at each site.
 - CSO97 now has electrical power at the site. Access structure and flow meter housing will be installed and operational in November.
 - Continued project to upgrade existing flow meters with telemetry and power at CSO16, CSO210 and CSO211. Electrical power and telemetry are now available at the sites. The flow meter structures have been installed at each site. Scheduled for completion in November.
 - Developed process to use existing Plant Information data tags to calculate the flow at CSO15 and CSO191.
 - Flow level sensor installed at CSO20 for formula based flow calculations.
- Continued to collect stream flow, sonde and other environmental data sets for use in further characterization of the combined service area.
- Continued the preparation of the Ohio River water quality model for use in the LTCP.
- Design started on the contract for updated radar rainfall services with OneRain. These services will provide 6-hour predictive rainfall estimates to MSD, streamline rainfall data transfer between OneRain and the RTC model simulation, and provide a monthly, calibrated data set for use in historical event analysis. The services should be available in late 2008.

1.2 Sewer Overflow Response Protocol Implementation

Per Paragraph 23.d. of the Consent Decree, MSD initially submitted the Sewer Overflow Response Protocol (SORP) to EPA and KDEP on February 10, 2006, and received comments on March 13, 2006. MSD resubmitted the revised SORP on May 12, 2006, and received an approval letter for the SORP on August 22, 2006. The approved SORP document can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin. The following activities were performed during this reporting period.

Overflow Management and Field Documentation

- Overflow/wet weather inspection routes are being reviewed and coordinated between the various MSD teams as well as the development of an inspection tracking process.
- Continued daily review, monthly review and quarterly reviews with staff from Metro Operations, Infrastructure & Flood Protection (I&FP) and Regulatory Services.
- MSD I&FP staff routinely monitors 11 locations and takes preventive measures to reduce basement backups. Work orders are used to track these various activities. During this period, MSD staff did not have to mobilize.
- MSD's Regulatory Services (RS) staff routinely monitors approximately 60 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause an SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this period, MSD's RS staff did not have to run any routes.



Portable Pumps for Beechwood Village

- MSD Metro Operations continues to monitor over 300 sites via telemetry. There are approximately 20 sites where sewage is routinely hauled from pump stations to prevent overflows during rain events depending on the magnitude and location of the storm. Due to capacity issues during this reporting period, MSD hauled approximately 7 times.
- On September 14, 2008, the Louisville area was hit with a wind storm that knocked out power to most of the city. Metro Operations hauled over 1,000,000 gallons from 56 locations to prevent overflows.
- On August 20, 2008, and August 21, 2008, there were 3 bypass events at the West County WWTP. These events required additional notification to the public and EPA due to the volume of dry weather overflow involved.

Public Notification and Communication

- Continued to update the Project WIN website. Customers who voluntarily sign up to receive email alerts regarding sewer overflows will now receive a revised notice that indicates when overflow conditions have returned to normal. In addition, there are messages from MSD, a repository of approved documents, Stakeholder meeting minutes and access to a public notification email system. This website can be found at www.msdlouky.org/projectwin.

- On August 20, 2008, and August 21, 2008, there were 3 bypass events at the West County WWTP. These events required additional notification to the public and EPA due to the volume of dry weather overflow involved. MSD posted information on the website regarding these bypasses and an email notification was sent out to all parties that have registered for Project WIN email notification.
- Advertisements to inform the public on Project WIN activities were published during the months of August and September in *Business First* and July and September in *Louisville Magazine*.
- Advertisement to inform the public on Project WIN activities was published during the month of September in *Today's Woman*.
- *MSD Update* was sent to customers and staff in July, August and September. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- MSD developed radio spots from the key values defined by the WWT Stakeholders Group. These radio spots ran 2 days in September and will continue to run through November 2008. The messages focus on the five key messages of Project WIN. The thirty second radio commercials on WHAS Radio highlight MSD tips and/or initiatives. Airing 3 times per week Monday-Friday from 6:00am-7:00pm and 1 time per week on Saturdays from 9:00am-11:00am. The five key messages of Project Win are as follows:
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- MSD's Customer Relations Department mailed 310 Project WIN information packets to customers who called the department with questions about the Louisville Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge.

Regulatory Reporting and Data Management

- MSD continued to improve the accessibility of data captured by the SCADA system for pump station and Real Time Control information. MSD continues to standardize various environmental data sets in preparation for integration with an upcoming SharePoint site.
- Monthly meetings continue to be held with staff to perform quality control on discharge work orders.
- The monthly review of discharge work orders was performed. The associated assets in Hansen were updated to track any new overflow locations.
- Templates for the required BYPASS and BLENDING 5 day notification letters were posted on MSDnet on July 9, 2008. Templates for the project certification letters were posted on MSDnet on September 4, 2008.

- Goldsmith Lane/Buechel Branch Interceptor (Budget ID H07296) - Bids were opened on September 29, 2008 and this project is scheduled to be awarded on October 13, 2008. Construction is scheduled to start in October 2008.

These projects will be completed by December 31, 2008, in accordance with the Consent Decree.

- Fern Hill Subdivision Interceptor #8 (Budget ID C94086) - This construction contract was awarded January 28, 2008, and the notice to proceed for construction was issued on February 18, 2008. Included in this scope of work is the elimination of the Holly Oaks Pump Station. The flow which was being treated in the Cedar Creek WWTP service area was diverted to the West County WWTP service area as of April 18, 2008. The elimination of the Holly Oaks Pump Station was certified on May 9, 2008, and therefore completed prior to the March 30, 2009, deadline, in accordance with the Consent Decree. The Fern Hill Subdivision Interceptor #8 Project is complete.
- Thurman Drive Pump Station Elimination (Budget ID B06299) - The construction contract was executed during the first quarter of 2008 with construction beginning in January 2008. The elimination of the Thurman Drive Pump Station was completed on July 2, 2008. The flow will remain in the West County WWTP service area but will be diverted to a new interceptor. The project was certified on July 22, 2008, prior to the September 30, 2008 deadline, in accordance with the Consent Decree.
- Zabel Way Pump Station Elimination (Budget ID C06295) - MSD completed the construction to eliminate this pump station on August 19, 2008. The project was certified on August 20, 2008, prior to the September 30, 2008 deadline, in accordance with the Consent Decree.

1.3.1.2 Interim Sanitary Sewer Discharge Plan

MSD submitted for approval an Interim Sanitary Sewer Discharge Plan (ISSDP) on September 30, 2007. Comments were received on January 8, 2008. MSD resubmitted the revised ISSDP on March 7, 2008, and received an approval letter for the ISSDP on July 24, 2008. The approved ISSDP document can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin. The following activities were performed during this reporting period.

Refer to Appendix A-2 for a chart showing the schedule of the activities described in the section.

- Beechwood Village (Budget IDs E07261 and E08034) - The new collector system design has reached 90% and is now on hold while MSD negotiates necessary easements for the route of the new outlet (Sinking Fork Interceptor Relief Budget ID H08357). At this time it is expected to begin east of Beechwood Village, cross Shelbyville Road, through the Shelbyville Road Plaza to Middle Fork of Beargrass Creek. MSD has also received over 402 of the 574 temporary easements needed to complete the construction project. The project will be completed by April 2011, in accordance with the Consent Decree.
- Southeast Diversion Structure (Budget ID H08358) - Construction will be required for a new relief interceptor parallel to the Southeast Interceptor from the Southeast Diversion Structure to the Northern Ditch Interceptor. A new junction structure is expected to be constructed to connect this relief sewer to the proposed Hikes Lane Interceptor and the

existing Buechel Branch Interceptor. During development of the final SSDP, alternatives have been identified for the Upper Middle Fork Pump Station and the Jeffersontown WWTP that could impact the sizing of this relief interceptor, and require the addition of a flow equalization basin somewhere along the route. Professional services selection and scope development have been put on hold pending selection of the alternatives for eliminating unauthorized discharges at these locations. This project has considerable "float" as it is not required until the proposed Hikes Lane Interceptor is completed. The construction to eliminate the Southeast Diversion overflow will be completed by December 2011, in accordance with the revised ISSDP. The junction structure and the Southeastern Relief Interceptor will be completed in coordination with the Hikes Lane Interceptor by May 2012, in accordance with the Consent Decree.

- Highgate Springs and Hikes Point Area (Budget ID H07286 and H07287) - Work continued on the Preliminary Engineering Report for the design of the Hikes Lane Interceptor and Hikes Point Relief Sewer Improvements. In mid June 2008, a meeting was held at MSD to review status of the preliminary design, discuss information found in the geotechnical investigation, traffic analysis and the recommendations made to date on the Hikes Lane Interceptor pipe materials and alignment. In addition, a review of the necessary Hikes Point Relief Sewer Improvements was made to determine if project scopes could be separated from the large interceptor work. The entire project package will be completed by November 2012, in accordance with the Consent Decree.
- Northern Ditch Diversion Interceptor (Budget ID C85017) - Improvements described in the previous three paragraphs will result in significantly more wet weather flow in the West County WWTP and Morris Forman WWTP service areas. The proposed plan will include the installation of a new interceptor parallel to the Northern Ditch drainage channel, allowing wet weather flow to be diverted from the Morris Forman WWTP service area (currently through the Northern Ditch Pump Station) to the West County WWTP service area. The Interceptor design is underway with the surveying completed and the 90% design milestone reached.
- West County WWTP Wet Weather Equalization and Treatment Project (Budget ID H06302) - A Technical Memorandum (TM) was prepared describing the selected alternative for the flow diversion at the Northern Ditch Diversion Interceptor, the flow equalization basin at the West County WWTP, and an expansion of the existing contact stabilization activated sludge process. Expanding the existing process was found to provide a better overall effluent quality than any of the side-stream high-rate secondary treatment processes evaluated. Work began on a refined implementation schedule and cost estimate based on the revised scope of work. Construction of flow equalization and expanded secondary treatment at the West County WWTP will be completed by December 31, 2011, in accordance with the Consent Decree.
- Increased Performance for ISSDP Elements - Additional overflow eliminations that may require flow to be routed through the conveyance and treatment processes listed above have been analyzed. Adjustments to design parameters (size, storage) of the above were made to allow the projects to accommodate additional wet weather flows. A summary of these elimination projects will be included in the Final SSDP by December 31, 2008, in accordance with the Consent Decree.

1.3.1.3 Final Sanitary Sewer Discharge Plan

MSD is required to submit for approval a Final Sanitary Sewer Discharge Plan (SSDP) by December 31, 2008. During this reporting period, MSD completed the following activities:

- Completed the evaluation of alternatives and developed the list of recommended alternatives for the 1.82 inch cloudburst storm, including those SSOs identified in 2008 as noted above.
- Evaluated differing levels of control (2.25 inch cloudburst storm, and in some cases 2.6 inch cloudburst storm) for the preferred alternative solution addressing each SSO.
- Refined the selected alternatives, developed site-specific cost estimates and developed summary of recommended program.
- Evaluated the full list of selected alternatives against the programmatic values established by the Stakeholder Group.
- Developed programmatic costs related to annual inspection and rehabilitation programs to reduce inflow and infiltration as well as a possible enhanced private property program to eliminate illicit connections.
- Developed preliminary project prioritization, schedule, and program cash flows. Using the preliminary cash flow began an analysis of possible rate impacts due to the site specific cost estimates developed. (Note that this was prepared for the entire suite of final SSDP and final LTCP costs, as rate impacts cannot be separated).
- Presented results of preferred projects to Wet Weather Team Stakeholder Group.
- Completed the first draft of the IOAP Volume 1, Chapters 1, 2, and 3, including attachments and appendices. Drafted portions of Chapters 4 and 6. Completion of Chapters 4, 5, and 6 require completion of Volume 2 Chapter 4, which is scheduled for the next reporting period.
- Finished the first draft of the IOAP Volume 3, Chapters 1, 2, and 3 including attachments and appendices. Began work drafting Chapter 4.

1.3.2 Long Term Control Plan

The Long Term Control Plan (LTCP) will address the overflows and unauthorized discharges from the CSS. Two separate plans will be submitted under this program as described below and outlined in Paragraph 24.b. of the Consent Decree.

1.3.2.1 Interim Long Term Control Plan

The Interim CSO LTCP was initially submitted to EPA and KDEP on February 10, 2006. MSD received an approval letter dated February 22, 2007, for the Interim LTCP. The approved Interim LTCP can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin.

This plan includes an overview of the MSD program, efforts taken to reduce/eliminate discharges from the CSS and the list of proposed improvements to be accomplished by

December 31, 2008. Refer to Appendix A-3 for a chart showing a schedule of the activities described in this section.

The following projects were active during the reporting period:

SWOR2 Instrumentation



- RTC at Southwestern Outfall SWOR2 (Budget ID I05055) - This project, part of Phase 2 of the RTC program, involves the installation of an inflatable dam for storage near the upper end of the Southwestern Outfall. Storage will primarily occur in the Upper Dry Run Trunk and the Mill Creek Trunk. The storage will be integrated into the Global Optimization RTC system. High water levels in the sewer system are impacting the progress of this project. The dam has been installed and work continues with the installation of instrumentation necessary to commission the project in October. This project will be completed by December 31, 2008, in accordance with the Consent Decree.
- RTC at CSO108 (Budget ID I03588) - This project, part of Phase 2 of the RTC program, involves improving the connection between the Beargrass Interceptor and the Beargrass Interceptor Relief Sewer and automating the control of flow through these systems and, therefore, Nightingale Pump Station. This project scope also includes the removal of the regulator at CSO108. The design phase was completed and MSD signed the Memorandum of Understanding with the property owner. MSD opened bids on July 1, 2008 and awarded a construction contract on July 28, 2008, with the contractor receiving a notice to proceed on September 9, 2008. This project will be completed by December 31, 2008, in accordance with the Consent Decree.
- Integration of Southwestern Pump Station/Main Diversion Structure/Morris Forman WWTP (Budget ID I05056) - This project, part of Phase 2 of the RTC program, links the Southwestern Pump Station, Main Diversion Structure and the Morris Forman WWTP with the Global Optimization RTC system. MSD advertised and opened bids for this project on June 12, 2008, awarded a construction contract on August 11, 2008, and issued a notice to proceed to the contractor on August 29, 2008. Construction has started. This project will be completed by December 31, 2008, in accordance with the Consent Decree.
- Integration of Wheeler Basin (Budget ID I05057) - This project, part of Phase 2 of the RTC program, employs additional controls to better utilize approximately one million gallons of storage in the trunk line that drains the Wheeler Basin. The scope of this work has been combined with the project - Integration of Southwestern Pump Station/Main Diversion Structure/Morris Forman WWTP (Budget ID I05056). MSD advertised and

opened bids for this project on June 12, 2008, awarded a construction contract on August 11, 2008, and issued a notice to proceed to the contractor on August 29, 2008. Construction has started. This project will be completed by December 31, 2008, in accordance with the Consent Decree.

- **CSO206 Separation** - This project includes the separation of combined sewers on the most upstream CSO on Middle Fork of Beargrass Creek. The sewershed had been divided into 15 sub-areas. Areas 1-12 have been completed, with areas 10-12 (Budget ID I01061) being completed within the reporting period. The final design for areas 13 through 15 (Budget ID I01062) (of 15 total) is complete. Bids on this phase of the project were opened on September 25, 2008. Construction is scheduled to start in October 2008. This project will be completed in accordance with the Consent Decree by March 31, 2009.

1.3.2.2 Final Long Term Control Plan

Efforts associated with the Final LTCP continued through this reporting period and included the following activities.

- Final updates to the LTCP modeling were completed and overflow controls sized for the initial level of protection (four overflows per year).
- The list of preferred projects was developed, and an assessment of the potential impacts of a proposed green infrastructure program was performed. Following these steps, the preferred projects were resized to account for the projected level of runoff reduction resulting from green infrastructure projects and programs.
- For the list of preferred projects, levels of control ranging from zero overflows per year to 8 overflows per year were modeled, and facilities resized to achieve the different levels of control. The levels of control were evaluated using the benefit/cost evaluation process for the preferred alternative approaches.
- Programmatic performance of the different levels of control was evaluated, and a recommended level of control selected for each location. A “knee of the curve” evaluation demonstrated that the recommended level of control was past the knee, and at a point that further reductions would have diminishing returns. Both the presumptive and demonstrative approaches to achieving compliance with water quality standards were evaluated. The recommended level of control results in a system-wide wet weather capture of greater than 95%, far exceeding the minimum levels required for the presumptive approach. Water quality modeling performed with no background loads (CSO loads only) indicated that the recommended level of control did not cause water quality standards exceedances on the Ohio River. Water quality modeling of Beargrass Creek with no background loads showed that the recommended level of control does not cause water quality standard exceedances 95% of the time.
- The possible overflow reduction impacts of a green infrastructure program have been analyzed at the CSO basin level and a “business-case” cost model developed to establish and justify annual funding levels related to implementation of various “green” technologies.

- The final recommended list of projects, project schedules and probable cash flow was presented to the MSD Board on September 22, and subsequently discussed with the Wet Weather Team Stakeholder Group on September 23, 2008.
- Work began on evaluating rate impacts of the recommended projects, as discussed previously under the Final SSDP development.
- The first draft of Volume 2, Chapters 1 and 2 were developed, along with attachments and appendices. Work began on Chapters 3 and 4, with completion scheduled in the next reporting period.

1.4 Public Outreach, Education, Notification and Participation

In addition to the technical aspects of Consent Decree implementation, MSD has enhanced programs to inform, educate and involve both staff and the local community. The program is broken down into different components aimed at accomplishing the goals for Discharge Abatement Plan development, as well as Consent Decree program implementation. The programs involve basic understanding of the community's water quality challenges and the personal behavioral changes necessary for complete success. A description of the programs follows.

1.4.1 Public Outreach

MSD has developed a public outreach program aimed at educating the public on MSD's primary business functions with emphasis on wastewater, stormwater and flood protection. Presentations were given to numerous community groups during the reporting period. A portion of the presentation contains information related to the Consent Decree, including potential program direction and anticipated costs.

Below is a chronological summary of the **general outreach activities** during the reporting period.

July 19, 2008	Rain Garden & Rain Barrel Workshop for Louisville Nature Center
July 21, 2008	Presentation on Urban Stormwater, Rain Gardens and Rain Barrels for Germantown Neighborhood Association
July 29, 2008	Field trip to Floyds Fork Wastewater Treatment Plant – Whitney Young Scholars
August 12, 2008	Sustainable Cities Series – Presentation on what you can do to help our waterways.
August 14 – 24, 2008	Educational exhibit at the KY State Fair - exploring the underground world of sewers
September 15, 2008	Presentation on Urban Stormwater, Native Plants, Rain Gardens and Rain Barrels for Federation of Gardens, Bon Air Public Library. Rescheduled due to electrical outage
September 17, 2008	Presentation on Urban Stormwater, Native Plants, Rain Gardens and Rain Barrels for World of Flowers Garden Club. Rescheduled due to electrical outage

September 19-21, 2008	Educational exhibit at the 2008 Jeffersontown Gaslight Festival
September 27, 2008	Beargrass Creek Clean Sweep with Metro Parks and Natural Resource Conservation Service

In addition, MSD staff attended the following **“District 12 Dialogues”** at the request of Councilman Blackwell:

July 15, 2008	Rockford Lane Baptist Church - 2006 Rockford Lane
August 19, 2008	Mt. Everest Baptist Church - 6012 Mt. Everest Drive
September 16, 2008	St. Paul Catholic Church - 6901 Dixie Highway

MSD staff also attended the following **“Mayor’s Community Conversations”**:

July 21, 2008	Carter Elementary School cafeteria, 3600 Bohne Avenue
August 18, 2008	T.J. Middle School large gym, 1501 Rangeland Road
September 15, 2008	Central High School large gym, 1130 W. Chestnut Street

1.4.2 Project WIN Public Meetings

During this reporting period there were no Project WIN public meetings but the draft IOAP was presented to MSD’s Board and a follow-up article was printed in the Courier-Journal on September 23, 2008. Three IOAP public meetings will be held next quarter and there will also be a formal public hearing.

1.4.3 Wet Weather Team Meetings

The process of organizing a Wet Weather Team (WWT) as outlined in Consent Decree Paragraph 22 has been completed and WWT meetings are almost complete. Two WWT meetings were held during this reporting period, as detailed below.

- July 15, 2008 – Presented at this meeting the complete list of preferred alternatives and the initial look at the knee of the curve evaluations.
- September 23, 2008 – Presented the draft IOAP to the group, including the final recommended project list, final “knee of the curve” evaluation, implementation schedule and total program costs.

All information provided to the WWT is available on the Project WIN website, at www.msdlouky.org/projectwin.

1.4.4 Public Education and Notification

MSD produced and distributed a number of products aimed at educating the community on the objectives of Project WIN and how to lessen the risks associated with coming into contact with sewage overflows. The following activities occurred within this reporting period:

- Continued to update the Project WIN website. Customers who voluntarily sign up to receive email alerts regarding sewer overflows now receive a revised notice that indicates when conditions have returned to normal. In addition, there are messages

from MSD, a repository of approved documents, Stakeholder meeting minutes and access to a public notification email system. This website can be found at www.msdlouky.org/projectwin.

- Advertisements to inform the public on Project WIN activities were published during the months of August and September in *Business First* and July and September in *Louisville Magazine*.
- Advertisement to inform the public on Project WIN activities was published during the month of September in *Today's Woman*.
- MSD *Update* sent to customers and staff in July, August and September. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- MSD developed radio spots from the key values defined by the WWT Stakeholders Group. These radio spots ran 2 days in September and will continue to run through November 2008. The messages focus on the five key messages of Project WIN. The thirty second radio commercials on WHAS Radio highlight MSD tips and/or initiatives. Airing 3 times per week Monday-Friday from 6:00 am - 7:00 pm and 1 time per week on Saturdays from 9:00 am - 11:00 am. The five key messages of Project Win are as follows:
 1. Value clean water.
 2. Your investment is paying dividends and our water is getting cleaner.
 3. Protecting public health is critically important.
 4. MSD and many community partners are working hard to improve water quality.
 5. You can make a difference.
- MSD's Customer Relations Department mailed 310 Project WIN information packets to customers who called the department with questions about the Louisville Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge fee.

MSD continues to post Project WIN information on the website. On MSD's home page, the Project WIN area provides important information on the condition of area streams and shows a warning if overflows are likely to be happening or have happened in the past 48 hours. Clicking on the Project WIN logo brings up the Project WIN site, which includes a repository of public documents related to Project WIN, tips for customers to help control overflows through their personal actions, information about the history and background of Project WIN and a place to sign up for overflow advisory emails warning when significant precipitation has caused overflows in MSD's system.

MSD updated the "calendar" of public information activities for the upcoming year. It is anticipated that the calendar will address unique activities such as Project WIN public meetings held in support of SSDP and LTCP development and also repetitive information and outreach activities. An example of repeating activities is MSD's plan to develop and disseminate information about control of household fats, oils and grease prior to the holiday season. MSD anticipates repeating this message every year before the holidays. Messages will also be

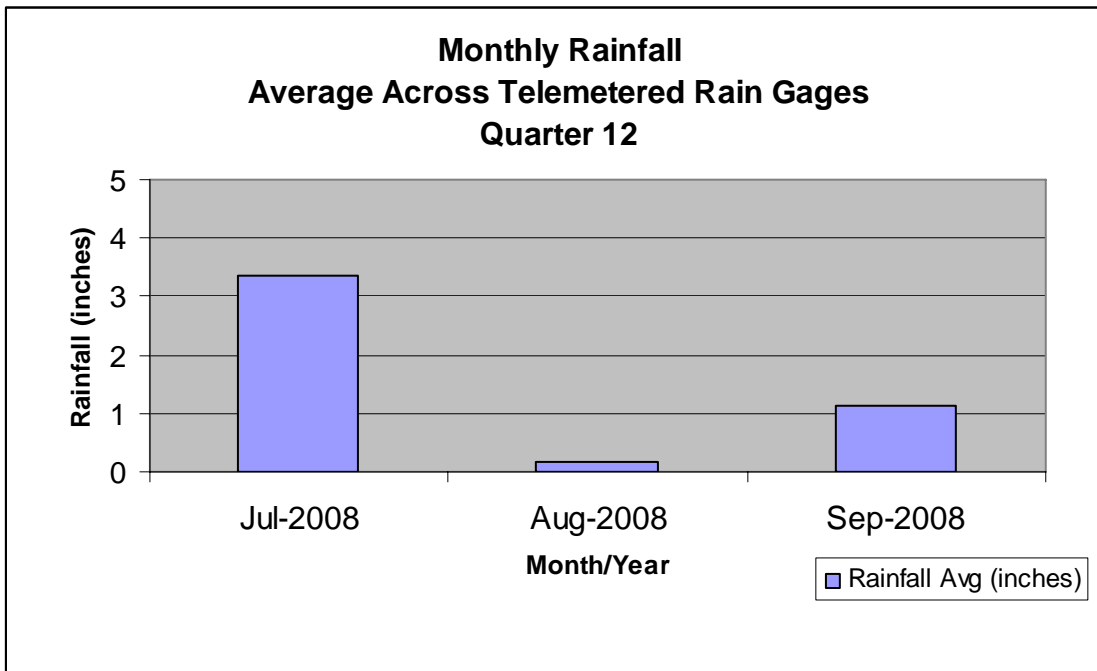
developed and disseminated prior to the winter wet weather season, the summer recreation season and the autumn lawn-clean-up season.

Information related to this Consent Decree and Project WIN may be found at www.msdlouky.org/projectwin.

SECTION 2: Performance Overview

2.1 Rainfall

The number and the volume of the overflows are directly related to the amount of rain that has fallen in the reporting period. The following graph shows the rainfall amounts per month for Jefferson County. Data was pulled from MSD's Rain Gages.



2.2 Unauthorized Discharges to Waters of the United States

Appendix B-1 includes information related to MSD's discharges to waters of the United States for the reporting period. This information is entered and maintained in the Hansen Information Management System (Hansen) utilizing procedures reviewed and improved through efforts associated with various components of the Consent Decree. These discharges have been reported to KDEP and EPA through automated email, telephone calls and monthly wastewater treatment plant discharge monitoring reports (DMRs).

2.2.1 Bypass Events WWTPs

Included in Appendix B-2 is a report that lists the details of the 11 bypasses that occurred at wastewater treatment plants (WWTP) during this reporting period. Bypasses were reported for the following WWTPs:

- Bancroft (2) - KPDES Permit Number KY0039021
- Berrytown - KPDES Permit Number KY0036501
- Cedar Creek - KPDES Permit Number KY0098540

- Chenoweth Hills - KPDES Permit Number KY0029459
- Jeffersontown - KPDES Permit Number KY0025194
- West County (4) - KPDES Permit Number KY0078956
- Yorktown - KPDES Permit Number KY0036323

2.2.2 Blending Events

Included in Appendix B-3 is a report that lists the one blending event that occurred at the Jeffersontown WWTP during this quarter. Blending events, as posted on the Project WIN website, started on the following day(s):

- July 4, 2008

2.3 Overflows to Ground

MSD recorded information related to overflows to the ground that did not reach waters of the United States for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Consent Decree. These overflows will be included in the FY 2009 Annual Report for the period of July 1, 2008 through June 30, 2009.

2.4 Overflows to Interior

MSD recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the period of July 1, 2008 through June 30, 2009.

2.5 CSO Reductions

Appendix C includes the new version of the modeled Annual Average Overflow Volume (AAOV) for the permitted CSOs. The new AAOV was derived from the newly calibrated and detailed InfoWorks CSO hydraulic model. Differences in the previous CSO AAOV table and the new table are showing in Appendix C and are due to the following:

- increased level of detail within the hydraulic model (12,000 nodes versus 2,000);
- new survey information to confirm and adjust weir elevations and system setup;
- increased ability to model RTC locations;
- improved boundary condition information from the separate sanitary models that flow into the combined area;
- and use of the 2001 rainfall year for typical year simulations rather than the synthetic year.

This new table has been developed and used throughout the Final LTCP to be submitted by December 31, 2008. The AAOV table assumes that the ISSDP projects have been constructed and offloaded volume from the combined system and that Real Time Control Phase II projects are functioning. This assumption is not reflected in the AAOV table in Appendix C as it represents system conditions as of September 30, 2008.

In addition, the new InfoWorks model has identified additional CSOs that have AAOVs exceeding 10 million gallons per year. These additional CSOs are as follows: CSO153, CSO149, CSO121, CSO119, CSO105, CSO97, CSO84, CSO58, CSO55, CSO50, CSO23, CSO18, CSO16, and CSOs discharging to Sneads Branch Relief (combined AAOV). A plan for monitoring, measuring, or calculating flows at each location will be developed by June 30, 2009.

No projects were completed during this reporting period that impacted permitted CSOs, and thus no additional reductions in wet weather CSO volume were achieved.

The following additional activities occurred over the reporting period related to CSO monitoring. Appendix D includes CSO flow monitoring information for the reporting period.

- Batteries are tested before installation and the CSO flow monitoring sites are inspected every three weeks. Batteries are replaced every 90 days or when the voltage falls below four.
- The CSO117 flow meter experienced a power failure due to bad batteries. MSD was unable to download data from August 28, 2008 to September 30, 2008.
- The CSO151 flow meter experienced a power failure due to bad batteries. MSD was unable to download data from August 29, 2008 to September 30, 2008.
- The CSO182 flow meter experienced a power failure due to bad batteries. MSD was unable to download data from August 28, 2008 to September 30, 2008.
- The CSO190 flow meter experienced a power failure due to bad batteries. MSD was unable to download data from August 28, 2008 to September 30, 2008.
- CSO97 now has electrical power at the site. Access structure and flow meter housing will be installed in October.
- Continued project to upgrade existing flow meters with telemetry and power at CSO16, CSO210 and CSO211. Electrical power and telemetry are now available at the sites. The flow meter structures have been installed at both sites. Scheduled for completion in October.
- Developed process to use existing Plant Information data tags to calculate the flow at CSO15 and CSO191.
- Flow level sensor installed at CSO20 for formula based flow calculations.

2.6 SSO Reductions

Estimation of SSO volume is not available in the same manner as it is for the CSO locations. The SSO volume reductions are estimates based on actual observations or from flow monitoring information. The following SSOs were eliminated during the reporting period.

- The Farnsley Park SSO located at MH 47960A was closed on August 20, 2008.



- The Zabel Way Pump Station was eliminated on August 19, 2008.
- The Thurman Lane Pump Station was eliminated on July 2, 2008.

2.7 Wastewater Treatment Plants

2.7.1 Morris Forman WWTP

There were 3 days during this quarter where the peak flow was over 300 MGD. There were no KPDES permit violations during this reporting period.

2.7.2 Jeffersontown WWTP

Since July 1, 2008, the following activities have occurred for this treatment plant:

- Plant effluent is sampled 7 days per week and analyzed for the parameters listed per the KPDES Permit. This data will now be posted with the DMR packet and available on the Project Win website starting October 30, 2008.
- Electronic monitoring of the water surface elevation in the siphon head box has started. When this level indicates that SSOs are close to occurring, the constructed overflow siphon and manholes on the gravity interceptor within two thousand feet of the headworks of the Jeffersontown WWTP that may overflow are inspected. When these inspections identify an SSO, the occurrence is documented and reported in accordance with the approved SORP for the 24-hour notification. Unauthorized Discharges are submitted in the Quarterly Reports.

2.7.3 Discharge Monitoring Reports

In July 2008, MSD started posting, on the Project WIN website, a Discharge Monitoring Report (DMR) packet for each WWTP. Historical DMR data are available back through January 2007. The new DMR packets include the DMR, Monthly Operating Report (MOR), discharge report and the 5-day follow up letter for any bypass events that occurred during that period.

The information on the DMRs may be found at www.msdlouky.org/projectwin in the section labeled Wastewater Treatment Plant Reports.

2.7.4 Flow Monitoring and Recordkeeping at MSD Wastewater Treatment Plants

On September 30, 2008, MSD submitted to EPA and KDEP a Flow Monitoring and Recordkeeping plan for all MSD's WWTPs (except Morris Forman).

By October 31, 2008 MSD will respond to the following items:

- Eliminate the "noise" in the Jeffersontown WWTP control system that incorrectly shows small flows in the Storm Bypass Line.
- Develop an application to display flow trends in the WWTPs over an adjustable length of time above the fixed 24 hour period previously shown.
- Evaluate the communications system for our SCADA system to see if potential vulnerabilities revealed during the September 14, 2008, Wind Storm can be eliminated.

SECTION 3: Project WIN Program Activities for the Next Reporting Period

This section describes the anticipated projects and activities (CMOM activities can be found in Section 4 of this document) that are scheduled to be performed during the next reporting period (October 1, 2008, through December 31, 2008) for continued compliance with the Consent Decree.

3.1 Nine Minimum Controls Implementation

Implementation of the NMC program is an on-going initiative. MSD will continue to review programs and assess the need to employ programmatic enhancements and CSS improvements. Specific enhancement activities to be implemented during the next reporting period, over and above the routine activities already in place and discussed in Section 1.1, are as follows:

NMC 1: Proper Operation and Maintenance Program

Annual Training

- Development of a technical memorandum describing the results of the annual CSO Field Investigation that was conducted in September 2008 will be completed by December 31, 2008.
- The results of the annual field investigation will be used to adjust and enhance the annual CSO Field training modules.

Annual Asset Review and Documentation

- The text in the CSO Inventory will be reviewed and drawings will be updated to incorporate all of the changes made to the inventory over the past year by December 31, 2008.
- Construction activities were initiated to remove the last mechanical regulator within the CSS at CSO108 scheduled to be completed by December 31, 2008.
- Complete the evaluation of CSO Central Relief Drain eliminations and develop a technical memorandum that documents the findings and plan of action by December 31, 2008. These actions will continue into the reporting period in concert with the Final LTCP development.

NMC 2: Maximization of Storage in the Collection System

Real Time Control Operation

- Construction of RTC Phase II projects: RTC at CSO108, Integration of SWPS/MDS/MFWTP/Wheeler, and SWOR2 will continue. RTC Phase II construction is to be completed by December 31, 2008, as required within the Consent Decree.
- The RTC Phase II programmatic enhancement initiatives will continue in the next reporting period.

Flapgate Evaluation

- To evaluate the need for flap gates to further limiting the possibility for inflow of river/creek water into the CSS during high stream flow events, a field review was

undertaken in September 2008. A technical memorandum will be developed by December 31, 2008, to document the findings. Recommendations and schedule for the implementation of any enhancements will be included in the technical memorandum.

NMC 3: Review and Modification of Pretreatment Requirements

- Continue implementation of the CSO-SIU project in conjunction with the LTCP preparation. Meet with those newly identified NDDs of concern that were identified in quarter 12 to identify opportunities to reduce/eliminate the impact of discharges to CSOs.
- By June 30, 2009, determine if additional data needs to be collected in trunk sewers contributory to CSO outfalls and/or those NDDs identified as possibly impacting overflows, and if so, collect and evaluate the data to further verify the model predictions.
- Begin including specific NMC #3 related language in re-issued permits discharging to the CSS.
- Implement performance measures to monitor the effectiveness of the implementation of NMC #3 within the Pretreatment Program and begin tracking and reporting on the performance measures.

NMC 4: Maximization of Flow at the Morris Forman Wastewater Treatment Plant

- RTC Phase II includes a project that will allow the RTC computer system to regulate the flows into Morris Forman WWTP, based on the current availability of treatment trains. Construction is to be completed by December 31, 2008, as required within the Consent Decree.
- Continue the testing of the use of alternatives to sodium hypochlorite for disinfection since the results of the initial testing were not conclusive. This testing is being performed to determine if a successful replacement or addition may allow MSD to improve disinfection system effectiveness at high flows to ensure that disinfection performance does not become a constraint on treatment capacity.

NMC 5: Elimination of CSOs During Dry Weather

Flood Pumping Stations

- The review of flood pumping stations within the CSS to determine if additional operational and/or structural modifications are feasible, further maximizing operations and efficiently transporting more flow to the Morris Forman WWTP for treatment will be completed. Discussions with the U.S. Army Corps of Engineers (USACE) will continue regarding proposed modifications to these pumping stations that will minimize dry weather CSOs due to high river levels. A technical memorandum will be transmitted as part of the IOAP submitted by December 31, 2008.

Asset Analysis

- Completion of the analysis of locations throughout the District that historically have experienced excessive accumulation of fats, oils or greases (FOG) in sewers to determine if an engineered solution could cost-effectively and efficiently solve the

maintenance problem. A technical memorandum documenting the findings and outlining a plan of action will be completed by December 31, 2008.

- Perform a quarterly evaluation of dry weather overflows to the Waters of the United States, with emphasis on the CSS, to determine causes and to determine if there is a need for corrective activities.

NMC 6: Control of Solid and Floatable Materials in Combined Sewer Overflows

Field Verification

- Evaluate an expanded visual inspection program to determine the efficacy of installed controls by June 30, 2009. The intent of the visual inspections is to verify the installed controls are working by checking the appearance of the creek/river during and after an event compared to a standard for aesthetics.
- Evaluation of the proper placement of the COPA Cyclone removed from CSO30.
- Field investigation of CSO146 scheduled to find the cause of the slow drainage from the vault by December 31, 2008.
- Develop and implement a plan to monitor/document performance of the CSO108 Solids and Floatable structure operation in accordance with the MOU with the Kentucky Nature Preserve by May 30, 2009.

Solids and Floatables Debris Removal

- Develop and implement a process to track the amount of tonnage of solids and floatables materials removed from the CSS by June 30, 2009.

NMC 7: Pollution Prevention Programs to Reduce Contaminants in CSOs

- Continue to facilitate clean sweep events and coordinate volunteers to remove trash and debris from the waterways in Jefferson County.
- Facilitate rain barrel give-away events and sales in partnership with the Louisville Nature Center.
- Prepare and distribute informational pieces, targeted to inform customers and residents on activities that can be practiced within their homes to assist in the reduction of overflows within the collection system.
- Continue to promote Green Infrastructure initiatives within Jefferson County, such as pervious pavement.
- Distribute a rain garden manual outlining design and installation procedures for homeowners.



Typical Residential Rain Garden

- Continue coordination with Louisville Metro staff for programs such as street sweeping, Operation Brightside, “Adopt-a-Highway” cleanup programs and litter pick-up activities to maximize the efficiency of those operations and determine the amounts of materials as they relate to preventing solids and floatables from entering the CSS.

NMC 8: Public Notification

- Continued to update the Project WIN website. Customers who voluntarily sign up to receive email alerts regarding sewer overflows will now receive a revised notice that indicates when overflow conditions have returned to normal. In addition, there are messages from MSD, a repository of approved documents, Stakeholder meeting minutes and access to a public notification email system. This website can be found at www.msdlouky.org/projectwin.
- Advertisements to inform the public on Project WIN activities will be published during the months of October and December in *Business First* and October, November and December in *Louisville Magazine*.
- Advertisements to inform the public on Project WIN activities will be published during the month of October and December in *Today’s Woman*.
- MSD *Update* will be sent to customers and staff in October, November and December. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- Advertisements are to appear in both the Sunday edition and all Neighborhood Sections of the Courier-Journal announcing meeting dates for the IOAP Plan and the Public Hearing, is scheduled for December 2, 2008.
- Legal advertisement will be placed in the Courier-Journal by the end of October requesting public comment on the IOAP Plan.
- MSD will be sending out a *Crosscurrents* in late October. The *Crosscurrents* publication is sent to all customers that have had open drainage requests in the last five years or have had backup requests since January 1, 2008. This mailing will be sent to over 10,000 customers.
- MSD Customer Relations will continue to mail out Project Win Information packages to customers who call in with questions regarding the Consent Decree.

NMC 9: Monitoring to Characterize CSO Impacts and the Efficacy of CSO Controls

- MSD will perform sampling upstream and downstream of CSO206, as well as the overflow stream, during dry and wet weather to establish baseline conditions prior to its elimination. This sampling is scheduled to occur during the 2008 and 2009 recreational contact seasons.
- An enhanced radar/rainfall dataset will be available beginning in the next reporting period that will improve MSD’s ability to simulate past rainfall events. This data will improve model calibration over time and allow MSD to investigate wet weather operations issues more effectively.

- Sonde data will continue to be collected through the USGS Automated Data Processing System (ADAPS) site and additional quality control review procedures will be defined.
- Table 10-7 "CSS Pollutant Characterization", originally submitted in the NMC Compliance Report on September 15, 2006, will be updated and will be included in the IOAP to be submitted on December 31, 2008.
- The 24 CSOs currently fitted with flow monitors will be added to telemetry by June 30, 2009.
- The new InfoWorks model has identified more than 15 CSOs that have AAOVs exceeding 10 million gallons per year. These additional CSOs are as follows: CSO174, CSO153, CSO149, CSO121, CSO119, CSO105, CSO097, CSO084, CSO058, CSO055, CSO050, CSO023, CSO018, CSO016, and the CSOs discharging to Sneads Branch Relief. A plan for monitoring, measuring, or calculating flows at each location will be developed by June 30, 2009. New flow meters will be installed at these locations prior to December 31, 2009.

3.2 Sewer Overflow Response Protocol Implementation

The following activities will be performed in the next reporting period as identified in the approved SORP:

Overflow Management and Field Documentation

- Additional field reviews of SORP procedures will be scheduled after rain events to both ensure successful implementation and to assist with the annual SORP overall review.

Public Notification and Communication

- The feasibility and cost effectiveness of providing public service announcements via local radio channels will be explored.
- MSD will tape the IOAP presentation and investigate showing the meeting on Metro TV.
- Advertisements to inform the public on Project WIN activities will be published during the months of October and December in *Business First* and October, November and December in *Louisville Magazine*.
- Advertisements to inform the public on Project WIN activities will be published during the month of October and December in *Today's Woman*.
- MSD *Update* will be sent to customers and staff in October, November and December. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- Advertisements are to appear in both the Sunday edition and all Neighborhood Sections of the Courier-Journal announcing meeting dates for the IOAP Plan and the Public Hearing which is scheduled for December 2, 2008.
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- MSD Customer Relations will continue to mail out Project Win Information packages to customers who call in with questions regarding the Consent Decree.

Regulatory Reporting and Data Management

- Review of discharge work orders will continue and assets will be updated to reflect status.
- Process to remind staff about the additional reporting requirements on large volume dry weather overflows is in development.

Staff Training and Communication

- 4 SORP classes that focus on field response are scheduled for I&FP staff. Two classes are scheduled for October 3, 2008 and two classes are scheduled for December 19, 2008.
- 3 SORP classes that focus on field response are scheduled for Metro Operations staff. One class is schedule for October 17, 2008 and two classes are scheduled for October 29, 2008.
- The annual SORP Overview Training will be scheduled and administered. The schedule for the annual SORP overview for the next reporting period is as follows:

Location	Date	Time
MFWTP – Admin. Bldg. Training Rm.	10/1/08	8:00 a.m.
MFWTP – Admin. Bldg. Training Rm.	10/1/08	8:30 a.m.
Main Office – Boardroom	10/2/08	9:30 a.m.
Main Office – Boardroom	10/2/08	10:30 a.m.
CMF – Training Room 167 A & B	10/2/08	3:15 p.m.
CMF – Training Room 167 A & B	10/3/08	7:30 a.m.
Main Office – Boardroom	10/6/08	9:30 a.m.
Metro - West Co. WTP	10/7/08	8:30 a.m.
CMF – Training Room 167 A & B	10/7/08	3:15 p.m.
Metro - FFWTP	10/8/08	8:30 a.m.
MFWTP – MEB Training Room	10/8/08	3:00 p.m.
MFWTP – MEB Training Room .	10/8/08	3:30 p.m.
Main Office – Boardroom	10/8/08	4:00 p.m.
Metro - Cedar Creek WTP	10/9/08	8:30 a.m.

CMF – Training Room 167 A & B	10/9/08	3:15 p.m.
CMF – Training Room 167 A & B	10/24/08	10:00 a.m.

Annual SORP Review

- MSD will respond to comments from EPA and KDEP regarding the revised SORP which was submitted in August 2008.

3.3 Discharge Abatement Plans

The activities for the two discharge abatement plans (SSDP and LTCP) are described separately below. While the plans are discussed separately, many of the same activities are required, such as alternative development and evaluation, performance evaluations, etc. In addition, some of the activities such as affordability evaluation and rate impacts are programmatic in nature, applying to both discharge abatement plans. These are scheduled to be completed on an integrated program rather than the individual components and will be submitted as the Integrated Overflow Abatement Plan (IOAP) by December 31, 2008.

3.3.1 Sanitary Sewer Discharge Plan

The following discussion of the Sanitary Sewer Discharge plan includes the implementation of the Updated SSOP, implementation of the Interim SSDP, and development of the Final SSDP.

3.3.1.1 Updated Sanitary Sewer Overflow Plan Implementation

The following projects are under design and/or construction, and will be active during the next reporting period:

Interceptor Condition Assessment Phase 1 (Budget ID H04272) - In the next reporting period, MSD will continue corrective/rehabilitation projects to address the Phase 1 findings from the Interceptor Condition Inspections.

- Northern Ditch Interceptor Rehabilitation (Budget ID H07298) - This project is under construction.
- Sinking Fork Interceptor Rehabilitation/Beechwood Village SSO Abatement Phase 1 (Budget IDs: H07294/H06301) - Construction is scheduled to start on October 27, 2008.
- Middle Fork Interceptor Rehabilitation (Budget ID H04276) - Construction is scheduled to start on October 15, 2008.
- Beargrass Interceptor (Hikes Point) (Budget ID H07295) - This project was originally bid in September but because of issues with the bid, the project scope was adjusted. This project is scheduled to have bids opened on October 7, 2008. Construction is scheduled to start in October 2008.
- Goldsmith Lane/Buechel Branch Interceptor (Budget IDs H07296/H07297) - This project is scheduled to go to the board October 13, 2008. Construction is scheduled to start in October 2008.

These projects will be completed by December 31, 2008, in accordance with the Consent Decree.



3.3.1.2 Interim Sanitary Sewer Discharge Plan

The revised ISSDP was submitted on March 7, 2008. The implementation of this plan, upon approval, will continue during the next reporting period, with preliminary engineering, route selection, easement acquisition and related activities underway on the following projects:

- Beechwood Village (Budget ID E07261 & E08036) - Design is expected to progress to 100% with the revisions in the existing sewer plans to address the change in the outlet sewer. MSD will continue to negotiate for the remaining temporary easements needed to complete the Beechwood Village construction project. In the upcoming three months, it is also expected that easement negotiations for the Sinking Fork Interceptor Relief Sewer (Budget ID H08357) will be completed. The projects will be completed by April 2011, in accordance with the Consent Decree.
- Southeast Diversion Structure (Budget ID H08359) - Professional services selection for design of the relief interceptor will be initiated during this reporting period. The construction to eliminate the Southeast Diversion overflow will be completed by December 2011, in accordance with the Consent Decree. The junction structure and the Southeastern Relief Interceptor will be completed in coordination with the Hikes Lane Interceptor by May 2012, in accordance with the Consent Decree.
- Highgate Springs and Hikes Point Area (Budget ID H07286 & H07287) - The Preliminary Design Report will continue and a preliminary alignment will be selected so MSD can move forward with affected utility agency and property owner discussions. A final design contract will be negotiated in order to address one of the Hikes Point Relief Sewer efforts in the Carson-Ribble area separately from the Hikes Lane Interceptor contract. Construction will be completed by November 2012, in accordance with the Consent Decree.
- Northern Ditch Diversion Interceptor (Budget ID C08507) - The design of the Northern Ditch Diversion Interceptor to divert wastewater to the West County WWTP will continue, with easement negotiations expected to continue in the next reporting period. MSD will continue communications with USACE regarding stream crossing and wetlands permits.
- West County WWTP Wet Weather Equalization and Treatment Project (Budget ID H06302) - A preliminary engineering report will be completed which will include the selected alternative for the flow equalization and wet weather treatment process. A refined implementation schedule and cost estimate will be included. Construction of flow equalization and a wet weather treatment facility at the West County WWTP will be completed by December 31, 2011, in accordance with the Consent Decree.

3.3.1.3 Final Sanitary Sewer Discharge Plan

The following activities are planned for the next reporting period:

- Finalize the hydraulic and water quality model simulations.
- Complete project costing, sizing, and level of control selection.
- Update of comparative costs for selected projects for use in budget and rate impact projections.

- Integration of Wheeler Basin (Budget ID I05057) - During the next reporting period, construction will be completed. This project will be completed by December 31, 2008, in accordance with the Consent Decree.
- RTC at Southwestern Outfall SWOR2 (Budget ID I05055) - During the next reporting period, construction will be completed. This project will be completed by December 31, 2008, in accordance with the Consent Decree.
- CSO206 Sewer Separation (Budget ID I01062) - This project is scheduled to be awarded on October 13, 2008. In the next reporting period, construction on areas 13 through 15 will begin. This project will be completed in accordance with the Consent Decree by March 31, 2009.
- Integration of Southwestern Pump Station/Main Diversion Structure/Morris Forman Wastewater Treatment Plant (Budget ID I05056) - During the next reporting period, construction will be completed. This project will be completed by December 31, 2008, in accordance with the Consent Decree.

3.3.2.2 Final Long Term Control Plan

The following activities are planned for the next reporting period:

- Finalize hydraulic and water quality model simulations.
- Complete project costing, sizing, and level of control selection.
- Update of comparative costs for selected projects for use in budget and rate impact projections.
- Complete project schedule – LTCP through 2020 and SSDP through 2024.
- Develop cash flow analysis and balance through duration of programs and develop a rate impact analysis.
- Based upon the cash flow and rate impact analysis, complete an affordability analysis for Louisville Metro customers.
- Complete drafts of the 3 volumes of the Integrated Overflow Abatement Plan (IOAP).
- Presentation to the MSD Board of the draft IOAP – integrated document covering the final SSDP and LTCP.
- IOAP Draft to be released for 30-day public comment period at the end of October 2008. To be posted at all Louisville public libraries, MSD, and online at www.msdlouky.org.
- 3 Project WIN Public Meetings to be held on November 10, 2008, November 12, 2008 and November 20, 2008, to present the IOAP to the public (presentation to be taped for replay on Metro Circuit Television).
- Initial discussion of IOAP results with the KDEP and EPA Region IV will be scheduled for a November 2008 meeting.
- Final Wet Weather Stakeholder Meeting scheduled for December 4, 2008 to solicit endorsement of final IOAP and to review public responsiveness.

- MSD Board Meeting scheduled for December 6, 2008 to approve the IOAP and to review public responsiveness.
- IOAP Plan will be submitted by December 31, 2008.

3.4 Public Outreach, Education, Notification and Participation

The public participation process consists of several related components: Stakeholder involvement as part of the WWT; public outreach through community meetings and MSD's Speaker's Bureau; public education through MSD mailings, brochures, newsletters and MSD's webpage; and public input through a series of public meetings and a public hearing.

3.4.1 Public Outreach

A series of public outreach meetings will be held during the next reporting period. The intent of these meetings is to discuss with the public the extent of the CSO and SSO issues, and potential mitigation/elimination strategies. This will be an opportunity to hear from the public what concerns they have about projects that might occur in their neighborhood and what other opportunities for problem solving they might see.

Below is a chronological summary of the **general outreach activities** scheduled to occur during the next reporting period.

October 7, 2008	Presentation on Urban Storm Water, Native Plants, Rain Gardens and Rain Barrels Crescent Hill Library
October 11, 2008	Rain Garden Installation and On-site Workshop, 2105 and 2107 Dorothy Street, Douglass Blvd. Neighborhood Association
October 13, 2008	Presentation on Urban Storm Water, Native Plants, Rain Gardens for Indian Trail/Preston Neighborhood Annual Meeting
October 14, 2008	Presentation on Urban Storm Water, Native Plants, Rain Gardens for Beckham Bird Club
November 6, 2008	Educational booth at the Louisville Chapter Kentucky Restaurant Association Day at the Races at Churchill Downs: FOG information and Rain Barrel information will be presented.
November 19, 2008	Greening of Earth: Who's Responsibility? Common Experience Series, Indiana University Southeast

MSD staff is scheduled to attend the following "**District 12 Dialogues**" at the request of Council Member Blackwell during the next reporting period.

October 21, 2008	St. Polycarp Catholic Church - 7718 Columbine Drive
November 18, 2008	PRP High School - 5901 Greenwood Road

Mayor's Community Conversation meetings are scheduled for the next reporting period:

October 20, 2008	Waggener High School (small gym), 330 Hubbards Lane
November 17, 2008	Pleasure Ridge Park High School (large gym), 5901 Greenwood Road

3.4.2 Project WIN Public Meetings

There are three Project WIN public meetings schedule during the next reporting period to present the Final IOAP and engage the community in the related discussions.

Monday, November 10, 2008

6:00 p.m.
Southwest Government Center
7219 Dixie Highway
Louisville, KY 40258

Wednesday, November 12, 2008

6:00 p.m.
Jeffersontown Fire Department
10540 Watterson Trail
Louisville, KY 40299

Thursday, November 20, 2008

6:00 p.m.
East Government Center
200 Juneau Road
Louisville, KY 40243

There is one Formal Public Hearing scheduled on the Integrated Overflow Abatement Plan (IOAP) during the next reporting period.

Tuesday, December 2, 2008

6:00 p.m.
MSD Board Room, Main Office
700 W. Liberty Street
Louisville, KY 40203

3.4.3 Wet Weather Team Meetings

The WWT has been formed and regular meetings are being conducted approximately every four to six weeks. As previously discussed, this team will address the issues related both to the development of the SSDP and LTCP. The stakeholder component of this team is comprised of community leaders, environmental advocates and industry representatives. The stakeholder group will assist MSD in the development and implementation of programs and projects that will satisfy the requirements of the Consent Decree while meeting the level of service objectives of the community.

There is one WWT meeting planned for the next reporting period.

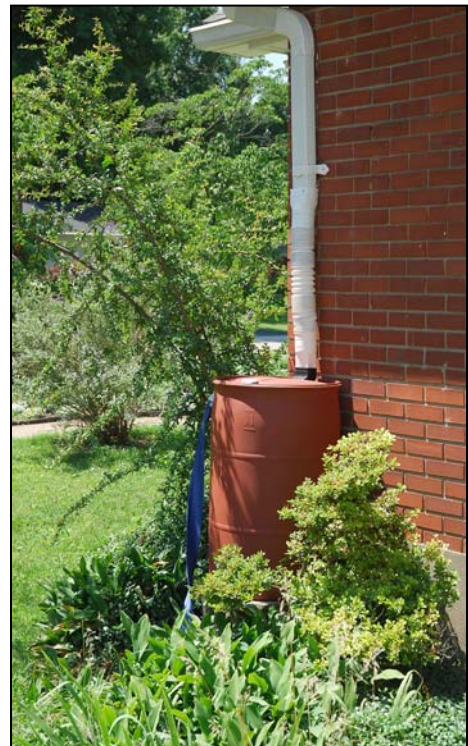
- December 4, 2008 - MSD will present the Final IOAP and report on the feedback received from public meetings/hearing. MSD will ask for formal/final permission to submit to the MSD Board for Approval and the ultimate submission to EPA by Dec 31, 2008.

3.4.4 Public Education and Notification

MSD will continue to update an annual “calendar” of public information activities. It is anticipated that the calendar will address unique activities such as Project WIN public meetings held in support of SSDP and LTCP development, and also repetitive information and outreach activities. An example of repeating activities is MSD’s plan to develop and disseminate information about control of household fats, oils and grease prior to the holiday season. MSD anticipates repeating this message every year before the holidays. Messages will also be developed and disseminated prior to the winter wet weather season, the summer recreation season and the autumn lawn-clean-up season.

The following activities will occur during the next reporting period:

- Advertisements to inform the public on Project WIN activities will be published during the months of October and December in *Business First* and October, November and December in *Louisville Magazine*.
- Advertisements to inform the public on Project WIN activities will be published during the month of October and December in *Today’s Woman*.
- *MSD Update* will be sent to customers and staff in October, November and December. Project WIN related articles are contained in each issue. These publications are available on the MSD website.
- Advertisements are to appear in both the Sunday edition and all Neighborhood Sections of the Courier-Journal announcing meeting dates for the IOAP Plan and the Public Hearing is scheduled for December 2, 2008.
- Legal advertisement will be placed in the Courier-Journal by the end of October requesting public comment on the IOAP Plan.
- MSD will be sending out a *Crosscurrents* in late October. The *Crosscurrents* publication is sent to all customers that have had open drainage requests in the last five years or have had backup requests since January 1, 2008. This mailing will be sent to over 10,000 customers.
- MSD Customer Relations will continue to mail out Project Win Information packages to customers who call in with questions regarding the Consent Decree.
- Living Better with Cindi Sullivan - a remote broadcast will be scheduled at a MSD location for a discussion on a rain garden installation.
- Thirty second radio commercials on WHAS Radio highlighting MSD tips and/or initiatives will continue



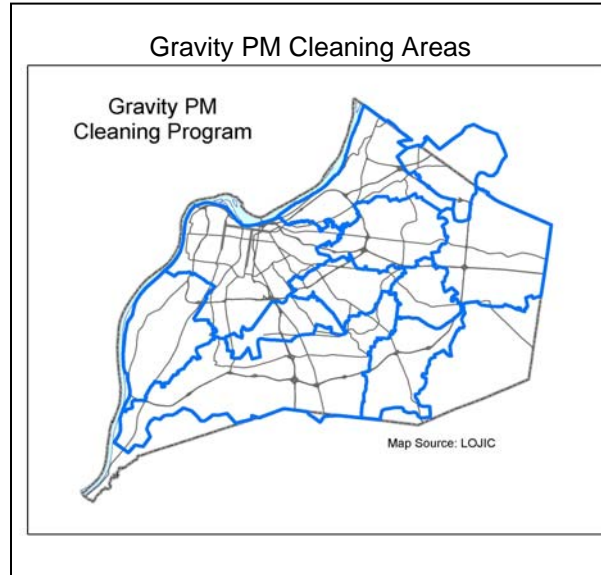
Typical Residential Rain Barrel Installation

airing 3 times per week Monday - Friday from 6:00 am - 7:00 pm and 1 time per week on Saturdays from 9:00 am - 11:00 am.

- Online web streaming on WHAS Radio highlighting MSD tips and/or initiatives will start, airing 10 times per week Monday - Friday from 7:00 am - 6:00 pm.
- Live reads on NPR (89.3 FM), airing two weeks in each month (6 weeks total) will begin. The spots will air 4 times each week from 6:00 am - 10:00 am, 4 times each week from 10:00 am - 3:00 pm, 5 times each week from 3:00 pm - 8:00 pm and 4 times each week from 8:00 pm - 12:00 am, for a total of 17 spots per week.

Information related to this Consent Decree and Project WIN may be found at www.msdlouky.org/projectwin.

- O-F-3 Flow Monitoring Program (Due September 29, 2008). MSD developed a long-term flow monitoring plan that includes approximately 45 locations for permanent sewer flow monitors. The flow monitoring plan will include equipment for measurement and telemetry. Several CSO sites had flow monitoring equipment installed during the last reporting period. The flow monitoring program is being integrated with the post construction compliance monitoring plan that will be implemented to track performance of the Integrated Overflow Abatement Plan. A technical memorandum was developed to document MSD's program.
- S-C-2 Integrate Maintenance Activities & Capital Improvement Plan (Due December 31, 2008). MSD continued the process to integrate the information obtained in the CSSA Report to assist MSD's I&FP Division in identifying potential infrastructure assets requiring consideration for renewal or replacement. MSD continues to define the Gravity Sewer Preventive Maintenance Program and the program for TV Inspection for condition evaluation. The CSSA Report will also be used to identify maintenance issues that should be dealt with proactively.



4.1.2 Activities for the Next Reporting Period (October 1, 2008, through December 31, 2008)

Section 4.1.2 describes those activities that are still in progress and have upcoming deadlines. Refer to Appendix A-4 for a chart showing a schedule of the activities described in this section.

- M-D-4 Revise Utility Information Management (UIM) Support Plan (Due May 14, 2009). Contract and MSD staff will continue the development of the SharePoint site during the next reporting period.
- M-E-4 Annual Continuing Sewer System Assessment Update (Due December 31, 2008). MSD will complete the Annual Continuing Sewer System Assessment (CSSA) Update Report, which will address accomplishments for each fiscal year and identify specific infrastructure rehabilitation/replacement projects and O&M actions based on asset condition assessment. Activities will continue to update missing age and material types on sewer assets, develop a method for assumed condition based on this data, and further prioritize inspection accounting for those assets in worst assumed condition, wet weather issues, and new development pressures. The Annual CSSA Update Report will also propose areas of the system to assess for the coming year.
- M-L-1 Implement Back-up Power (Due December 31, 2008). The permanent emergency generators have all been installed and training will be completed during the next reporting period.

- S-C-2 Integrate Maintenance Activities & Capital Improvement Plan (Due December 31, 2008). MSD will continue the process to integrate the information obtained in the CSSA Report to assist the I&FP Division in identifying potential infrastructure assets requiring consideration for renewal or replacement. This CSSA Report will also be used to identify maintenance issues that should be dealt with proactively.

4.2 Continued CMOM Program Implementation

Although the program implementation deadlines from the CMOM Self Assessment Report were previously met, MSD continued to enhance the activities listed in the table below during this reporting period.

The CMOM ID numbers in the table below correspond to the CMOM ID numbers in the original EPA checklist and Table 3.2 from the CMOM Self Assessment. All "Continued CMOM Program Implementation" activities (Section 4.2 of this document) will be reported using these original CMOM ID numbers. These original ID numbers do not correspond to the numbering system used in Section 4.1 of this document. The ID numbering system referenced in Section 4.1 is a numbering system which was based on the schedule submitted in the CMOM Self Assessment Report that was submitted to EPA and KDEP on February 10, 2006.

This conflict in the numbering systems has become a point of confusion when reporting progress. Therefore, as the CMOM deadlines are met in Section 4.1, future progress will be reported using the original CMOM ID numbering system.

Force Main Inspection Photos



Air Release Valve



Crew locates a force main

CMOM Reporting for Quarterly Report 12

Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
I. Management Programs		
<p>M-E-4 Engineering Programs (Sewer System Design Program)</p>	<p>MSD continued to review its design and construction standards to identify opportunities to reduce infiltration and inflow of new construction. As part of the updating process, MSD has initiated a third party review of the design and construction standards for other desired improvements.</p> <p>Internal meetings were held to gather input from MSD staff in the engineering and infrastructure divisions regarding recommended improvements to the existing documents. MSD has submitted comments to a consultant on the specifications.</p> <p>A targeted date of September 30, 2008 was extended to the consulting engineers' contract completion date in order to allow a more thorough analysis of the needed revisions to the design manual and allow for time to include possible changes needed as a result of a new MS4 permit.</p>	<p>The consultant is expected to reach the 50% point for the MSD Design Manual, Drawings and Specifications. There will be an effort made to issue the section of the revised design standards that address possible sources of inflow and infiltration. Work will continue to complete the documents, followed by a review period by MSD staff. Once that is complete, MSD will inform the engineering and contracting community of the changes and establish an effective date in the second quarter of 2009.</p>



Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
<p>M-E-9 Engineering Programs (Infrastructure Rehabilitation Program)</p>	<p>MSD prepared a technical memorandum summarizing the findings and recommendations of the Phase 1 Assessment. MSD has also scheduled corrective/rehabilitation projects to address the Interceptor Condition Assessment Phase 1 (Budget ID H04272) findings.</p> <p>Northern Ditch Interceptor Rehabilitation (Budget ID H07298) - This project is under construction.</p> <p>Sinking Fork Interceptor Rehabilitation (Budget IDs: H07294) - Bids were opened on August 29, 2008 and this project was board approved on September 2, 2008. Construction is scheduled to start in October 2008.</p> <p>Middle Fork Interceptor Rehabilitation (Budget ID H04276) - Bids were opened on September 12, 2008 and this project was board approved on September 22, 2008. Construction is scheduled to start in October 2008.</p> <p>Beargrass Interceptor (Budget ID H07295) - This project was originally bid in September but because of issues with the bid, the project scope was adjusted and the project was re-bid. This project is scheduled to have bids opened on October 13, 2008. Construction is scheduled to start in October 2008.</p> <p>Goldsmith Lane/Buechel Branch Interceptor (Budget ID H07296/H072967) - Bids were opened on September 29, 2008 and this project is scheduled to go to the board October 13, 2008. Construction is scheduled to start in October 2008. MSD also started Phase II of the Interceptor Condition Assessments.</p>	<p>The projects are scheduled to be completed by December 31, 2008, in accordance with the Sanitary Sewer Overflow Plan (SSOP).</p> <p>H07298 - Northern Ditch Int. Rehab Phase H07294 - Sinking Fork Int. Rehab Phase 1 H06301 - Beechwood Village SSO Abatement Phase 1 H07295 - Hikes Lane Rehab Phase 1 H07296 - Goldsmith Lane Rehab Phase 1 H07297 - Buechel Branch Rehab Phase 1 H04276 - Middle Fork System Improvements Phase 1</p> <p>MSD will continue Phase II of the Interceptor Condition Assessments.</p>





Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
<p>M-E-10 Engineering Programs (System Capacity Assurance Program)</p>	<p>As part of the development of the System Capacity Assurance Plan and the Integrated Overflow Abatement Plan (IOAP), MSD developed hydraulic models for the entire service area using InfoWorks CS modeling software. The sewer system models contain pump stations, hydraulic structures, interceptors, real time control features, and collector sewers within the MSD service area. During this reporting period, the process for documenting current and committed capacity in each treatment plant watershed was reviewed and updated. Work also began to update and improve the processes for tracking current and committed capacity for pump stations and sewer lines. This work includes the development of standard report templates to track new lateral extension requests that will flow to each pump station, similar to the way new flow requests are tracked for treatment plants.</p> <p>Collection system and pump station surcharge reports and GIS information are currently being generated for the SCAP design event using the hydraulic sewer models as a basis to make this information more readily available to the LE review team.</p> <p>The determination of the fee schedule associated with this program is under review by the Board.</p> <p>Treatment plant capacities and new development flows have been updated in accordance with the SCAP.</p> <p>The tracking of Pump Station capacities has been enhanced.</p> <p>Staff training sessions have been held during capacity review meetings.</p>	<p>Treatment plant capacities and new development flows will continue to be tracked in accordance with the SCAP, as previously described. Reports for pump station capacity will be refined and an initial credit evaluation will be performed for each credit catchment and balanced with approved new flows. Development of a training module will begin to help convey enhancements in the SCAP to additional MSD staff. GIS information related to capacity will be published and made available to general personnel. Credit calculation and tracking in Hansen will be evaluated and a process will be documented.</p>
<p>M-H-1 Equipment and Tools Management Programs (Spare Parts Inventory Management Program)</p>	<p>MSD continued to implement the strategic inventory and spare parts plan. Major activities during this reporting period included the following: began set up of standard process for recycling at Morris Forman; continued review of inventory with department managers to identify obsolete items; met with bar-code supplier and obtained samples; and finalized agreement with plumbing vendor to negotiate vendor warehousing.</p>	<p>MSD will continue to implement activities identified in the Storeroom Enhancement Plan, which was developed as part of the Inventory and Spare Parts Plan. The following activities are scheduled for the next reporting period: use SAP to calculate cycle counts; continue to identify obsolete items in the inventory; and design storeroom layout chart for visual flow of inventory.</p>



Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
M-H-3 Equipment and Tools Management Programs (Vehicle Repair Management Program)	Metro Louisville is looking into the possibility of centralized fleet management. MSD will not pursue a new fleet system until this decision is made. MSD IT staff updated the data input screens for fleet in the SAP system to make the interface more user friendly.	MSD IT staff will modify the data input screens for fleet in the SAP system based on user comments to make the interface more user friendly.
M-J-2 Legal Support Programs (Ordinances)	MSD discussed the proposed Ordinance with the Wet Weather Team Stakeholder group. Redraft of the ordinance was completed. Development of the financial impacts of implementation is being worked on as part of the Integrated Overflow Abatement Plan. In support of this effort, MSD identified for implementation in the next fiscal year a pilot program to inspect and rehabilitate property service connections (PSCs) in areas prone to interior discharges.	MSD will complete the financial impacts analysis and present the redrafted ordinance and the financial analysis to Metro Council members of the Stakeholder Group.
M-K-1 Water Quality Monitoring Programs (Routine Water Quality Monitoring Programs)	MSD continued to improve the accessibility of data reported to the SCADA system for pump station and Real Time Control information as well as standardize various environmental data sets in preparation for integrated data querying and display through an upcoming SharePoint site. Enhancements to the radar rainfall application were reviewed.	MSD will continue to work on improving and broadening staff access to the Laboratory Information Management System (LIMS), the Plant Information System (PI), sonde data and sewer flow data. MSD is migrating the flow meter and sonde data warehouses to an Oracle application interfaced with its Hansen asset management system. MSD will continue to work with its radar rainfall vendor to provide more extensive quality assurance and correction on the data it provides.
II. Operations Programs		
O-A-1 Pump Station Operations Programs (Routine Operating Programs)	MSD continued to work on draft flow schematics showing the flow path at different river elevations for the combination flood/sanitary pump stations.	MSD will finalize flow schematics for the flood pump stations. The flow schematics will show the gate positions for the various modes of operation.
O-A-2 Pump Station Operations Programs (Emergency Operating Programs)	MSD updated the list of pump stations that have the potential of flooding residents if the wet well reaches a critical elevation. MSD started the project to review these stations and establish critical elevation marks. During the Hurricane Ike event three additional Pump Stations were identified to be added to the review.	MSD will continue the project to review overflow elevations at pump stations and small wastewater treatment plants to improve information management and alarm notifications and to find opportunities to reduce the frequency and volume of unauthorized discharges while at the same time protecting properties from interior discharges.
O-A-2 Pump Station Operations Programs (Emergency Operating Programs)	MSD Regulatory Services staff meets with Operations staff on a monthly basis to determine capital project priorities. On a quarterly basis this information is used to adjust budgetary needs.	MSD Regulatory Services staff will continue to meet on a monthly basis with Operations staff to determine capital project priorities and advise on the budgetary needs on a quarterly basis. Quarterly budget meeting is scheduled for October.

Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
O-D-1 Grease Trap Inspection and Enforcement Program (Permitting Program)	MSD conducted reconnaissance at FOG "hot spot" locations along with concurrent inspections of online FSE grease control equipment (GCE).	MSD will begin development of the training modules for the Certified Hauler/Plumber initiative and Food Service Establishments (FSE) personnel under the updated FOG program. MSD will conduct reconnaissance at FOG "hot spot" locations along with concurrent inspections of online FSE grease control equipment (GCE).
O-F-1 Flow Monitoring Field Operation Programs (Permanent Stations; Temp Stations)	MSD continued to review proposed locations for new sewer flow monitoring installations that will be made available through telemetry. Existing sites that are not currently on telemetry are intended to be retrofitted with equipment to ease maintenance and data availability.	The inventory of the meters owned by MSD has been updated to include more detailed information on each meter, such as the manufacturer, model, age, features, location, and purpose. Additionally, an expanded flow monitoring and telemetry system is under development in support of the post construction compliance monitoring plan being developed as part of the IOAP, the SCAP being implemented as part of M-E-10, and others. Flow meters are being added as assets in the Hansen system to better track the location and history of these assets. A proposal will be finalized for implementing an expanded flow monitoring network and retrofit.
O-F-2 Flow Monitoring Field Operation Programs (Permanent Stations; Temp Stations)	See O-F-1	MSD will install additional permanent flow meters with telemetry equipment to facilitate remote communication of flow data and meter status back through MSD's website to the Oracle database. This process will preserve the flow data integrity and provide early indication of the need for calibration or maintenance. MSD staff will have the ability to see meter data in real time and identify meters in need of cleaning, calibration, or battery replacement. MSD will integrate the efforts of the Operations and Regulatory Services Divisions to set common goals in monitoring different points of the sewer system. A proposal will be finalized for implementing an expanded flow monitoring network and retrofit.

Programs and Activities	CMOM Program Implementation (Current Quarter)	CMOM Program Implementation (Next Quarter)
III. Maintenance Programs		
S-A-1,2 & 3 Pump Station Preventive Maintenance (Electrical; Mechanical; Physical)	<p>MSD continued the process of updating its preventive maintenance and inspection plan for its flood pump stations based on a review of the <i>USACE Inspection Guide</i>. Staff has started using the Hansen database to track Flood Pump Station work orders.</p> <p>Samples for the sanitary pump station data migration to Hansen were completed and reviewed with Metro Operations Staff.</p>	MSD currently uses SAP as its computerized maintenance management system (CMMS) for its sanitary pump stations. MSD will continue the process of converting its pump station CMMS to Hansen and enhancing the use of Hansen for Flood Pumping Stations.
S-B-1 & 2 Force Main Preventive Maintenance (Air Release Valves, Valve Exercise Program)	<p>The following force mains were inspected in the last quarter.</p> <ul style="list-style-type: none"> • West Goose Creek • Stannye Drive • Rubbertown • Meadowstream • West County -portion 	<p>The following force mains are scheduled for inspection over the next reporting period:</p> <ul style="list-style-type: none"> • West County Sludge Main – remaining portions • Valley Village
S-C-1, 2, 3 & 4 Gravity Line Preventive Maintenance (Routine Hydraulic Cleaning, Routine Mechanical Cleaning, Root Control Program, Manhole Preventive Maintenance)	<p>During the reporting period the existing PM Cleaning program was reviewed and changes were made to restructure the program and define the areas to coincide with the catchment areas defined for the Capacity Assurance program.</p> <p>During this time MSD chemically treated 499 line segments and cleaned an additional 3,295 line segments.</p>	During the next reporting period the Gravity Sewer PM program will be outlined and a detailed PM plan for FY 2009 will be developed. Transition will start to the new PM recommended program.

Appendix A – Activity Schedules (A-1 to A-4)

Appendix A-1

Updated Sanitary Sewer Overflow Plan (SSOP) Implementation Schedule

Activity ID	Activity Name	2008									2009					
		Qtr 2			Qtr 3			Qtr 4			Qtr 1			Qtr 2		
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Capital Improvement Project List																
Broadfern Pump Station Upgrade																
A.1.1	Installation and Initial Testing (Complete)															
A.1.2	Final Testing and Certification (Complete)															
Interceptor Cond Assessmt Ph 1 & Other Rehab Projects																
A.2.1	Inspection (Complete)															
A.2.2	Rehabilitation															
Murray Hills Area Pump Station Upgrades																
A.3.1	Design (Completed)															
A.3.2	Construction															
A.3.3	Certification															
Fern Hill Subdivision Interceptor #8																
A.4.1	Design (Complete)															
A.4.2	Bid and Award (Complete)															
A.4.3	Easement Acquisition (Complete)															
A.4.4	Construction															
A.4.5	Certification															
Thurman Drive Pump Station Elimination																
A.5.1	Design (Complete)															
A.5.2	Bid and Award (Complete)															
A.5.3	Construction															
A.5.4	Certification															
Zabel Way Pump Station Elimination																
A.6.1	Design (Complete)															
A.6.2	Easement Acquisition (Complete)															
A.6.3	Bid and Award															
A.6.4	Construction															
A.6.5	Certification															



Refer to Sections 1.3.1.1 and 3.3.1.1

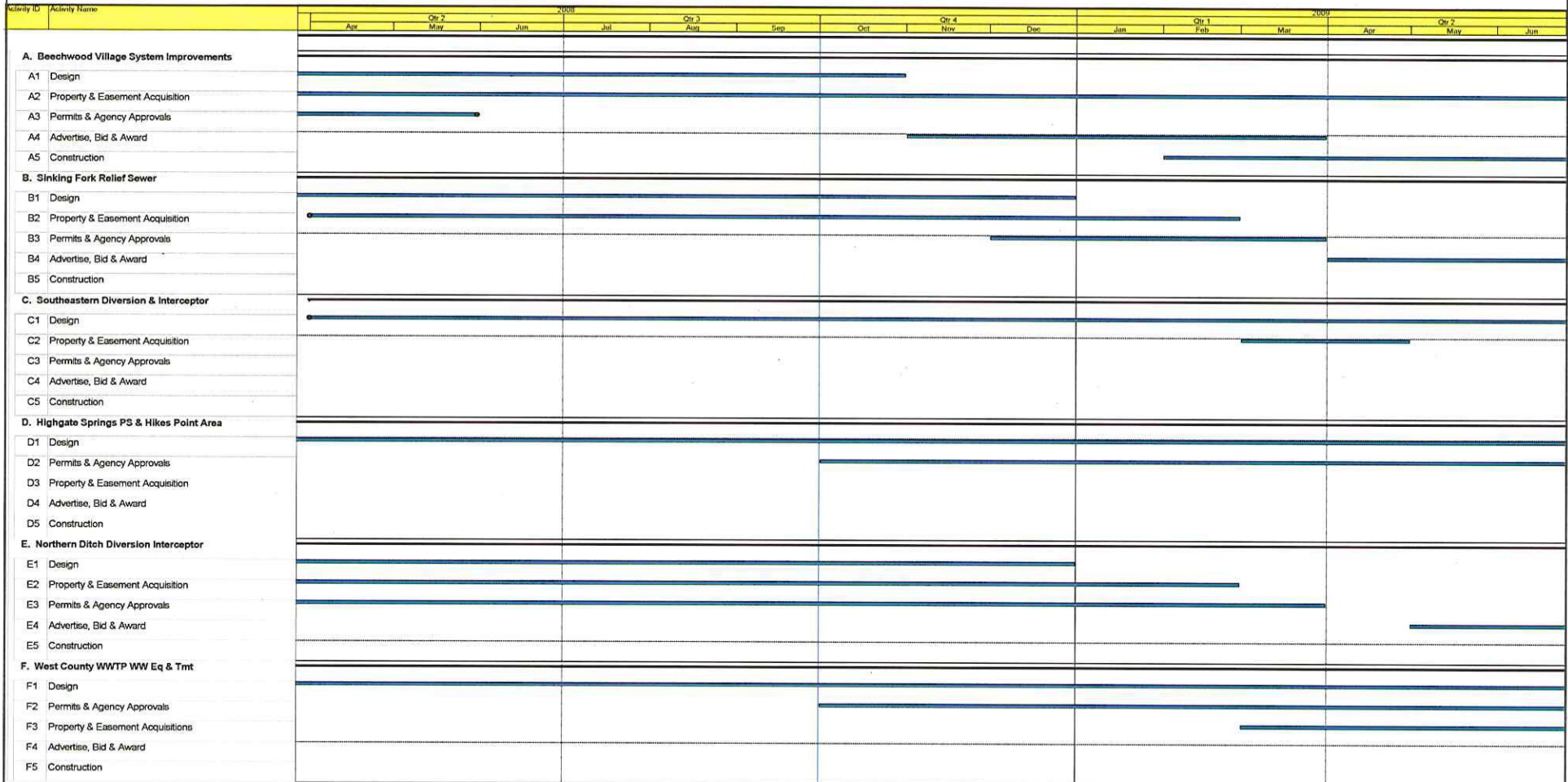
Data Date: 01-Oct-08

Summary
 Actual Finish
 Activity Schedule
 Project Summary
 Actual Start
 Milestone



Appendix A-2

Interim Sanitary Sewer Discharge Plan (ISSDP) Schedule



Refer to Sections 1.3.12 and 3.3.1.2

Data Date: 01-Oct-08

Summary
 Actual Finish
 Activity Schedule
 Project Summary
 Actual Start
 Milestone



Appendix A-3

Interim Long Term Control Plan (ILTCP) Schedule

Activity ID	Activity Name	2008												2009					
		Qtr 2			Qtr 3			Qtr 4			Qtr 1			Qtr 2					
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
Capital Improvement Project List																			
CSO 146 Solids and Floatables Control																			
1.a	Preliminary and Final Design (Complete)	[Summary bar from Apr to Mar 2009]																	
1.b	Construction (Operational)	[Summary bar from Apr to Mar 2009]																	
1.c	Certification (Complete)	[Summary bar from Apr to Mar 2009]																	
RTC at Southwestern Outfall (SWOR 2)																			
2.a	Design (Complete)	[Summary bar from Apr to Mar 2009]																	
2.b	Construction	[Activity Schedule bar from Apr to Dec 2008]																	
RTC at CSO 108																			
3.a	Design	[Activity Schedule bar from Apr to Jun 2008, Actual Finish in Jun 2008]																	
3.b	Bid and Award	[Activity Schedule bar from Jun to Aug 2008, Actual Start in Jun 2008, Actual Finish in Aug 2008]																	
3.c	Construction	[Activity Schedule bar from Sep to Dec 2008, Actual Start in Sep 2008]																	
Integration of Southwestern PS/MDS/MFWTP																			
4.a	Design	[Activity Schedule bar from Apr to May 2008, Actual Finish in May 2008]																	
4.b	Bid and Award	[Activity Schedule bar from May to Aug 2008, Actual Start in May 2008, Actual Finish in Aug 2008]																	
4.c	Construction	[Activity Schedule bar from Sep to Dec 2008, Actual Start in Sep 2008]																	
Integration of Wheeler Basin																			
5.a	Design	[Activity Schedule bar from Apr to May 2008, Actual Finish in May 2008]																	
5.b	Bid and Award	[Activity Schedule bar from May to Aug 2008, Actual Start in May 2008, Actual Finish in Aug 2008]																	
5.c	Construction	[Activity Schedule bar from Sep to Dec 2008, Actual Start in Sep 2008]																	
CSO 206 Separation (Areas 10-12)																			
6.a	Design (Complete)	[Summary bar from Apr to Jun 2008]																	
6.b	Construction and Closeout	[Activity Schedule bar from Apr to Jun 2008, Actual Finish in Jun 2008]																	
CSO 206 Separation (Areas 13-15)																			
7.a	Design	[Activity Schedule bar from Apr to Aug 2008, Actual Finish in Aug 2008]																	
7.b	Bid and Award	[Activity Schedule bar from Sep to Oct 2008, Actual Start in Sep 2008, Actual Finish in Oct 2008]																	
7.c	Construction	[Activity Schedule bar from Nov to Mar 2009, Actual Start in Nov 2008]																	



Refer to Sections 1.3.2.1 and 3.3.2.1

Data Date: 01-Oct-08

Summary
 Actual Finish
 Activity Schedule
 Project Summary
 Actual Start
 Milestone



Appendix A-4

CMOM Implementation Schedule

Activity ID	Activity Name	2008												2009					
		Qtr 2			Qtr 3			Qtr 4			Qtr 1			Qtr 2					
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
M-D- 1	Resubmit CMOM																		
M-D- 2	UIM Support Plan																		
M-D- 3	Implement UIM Support Plan																		
M-D- 4	Revise UIM Support Plan		○																
M-E- 1	Inventory Protocols																		
M-E- 2	Design & Construction Standards																		
M-E- 3	Initial CSSA																		
M-E- 4	Annual CSSA Update																		
M-E- 5	Continuing Sewer System Assessment					○													
M-E- 6	Major Facility Capacity																		
M-E- 7	Facility Capacity Protocol																		
M-E- 8	Current & Committed Capacity																		
M-E- 9	Build-out Capacity									○									
M-E-10	Available Capacity SOP																		
M-H- 1	Fleet Equipment Plan																		
M-H- 2	Inventory & Spare Parts Plan																		
M-I- 1	Customer Complaint Protocols																		
M-J- 1	Ordinance Private Property																		
M-K- 1	WQ Data Access																		
M-L- 1	Implement Back-Up Power																		
O-A- 1	Update PS SOPs																		
O-A- 2	Greenline Analysis																		
O-A- 3	Implement Greenline																		
O-A- 4	Implement SOPs																		
O-A- 5	Identify Facility Upgrades																		
O-D- 1	FOG Development Mods																		
O-D- 2	FOG Inspection Benchmarking																		
O-D- 3	FOG Public Education																		
O-D- 4	FOG Enforcement Benchmark																		
O-D- 5	FOG Enforcement Mods																		
O-E- 1	Tap Connection Protocols																		
O-F- 1	Flow Meter Inventory & SOP																		
O-F- 2	Flow Data Access Improvement																		
O-F- 3	Flow Monitoring Plan																		
S-A- 1	Modify/develop PS PM Plan																		
S-A- 2	Train and Implement SP PM Plan																		
S-B- 1	FM and ARV Inspection PM																		
S-B- 2	Implement FM and ARV PM																		
S-C- 1	Gravity Line PM Risk Eval																		
S-C- 2	Integrate Maint Activities & CIP																		



Refer to Section 4.1
Data Date: 01-Oct-08

- Activity Schedule
- Actual Start
- Actual Finish



Appendix B-1 - Discharge Work Orders – Waters of the US



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022420	Facility ID MSD0202	Treatment Plant Name HITE CREEK	Receiving Stream of Treatment Plant HITE CREEK	Region EAST
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Facility Type SMH Sewer Manhole	Facility ID 108958	Facility Address 7302 FLOYDSBURG RD	If Pump Station, Name of Pump Station:	Receiving Stream FLOYDS FORK	Discharge to CATCH BASIN
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	812565	07/31/08 07:15 AM	MARKS JR	COOMER	DOCUMENTED	07/31/08	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	07/31/08 08:20 AM	

Spot Inspections:

Discharge Amount:	13,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO CLEANUP REQUIRED
Control Zone:	TEMP SIGNS POSTED
Impact:	DILUTE STORM FLOW OBSERVED FLOWING TO NEARBY CATCH BASIN
Repair:	API HAULING TO PREVENT DISCHARGE SAP WORK ORDER #5192471

Notifications:

07/31/08 07:15 AM	DISPUB	temp signs posted to notify public
07/31/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022420 (Cont'd)	Facility ID MSD0202	Treatment Plant Name HITE CREEK	Receiving Stream of Treatment Plant HITE CREEK	Region EAST
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Facility Type SMH Sewer Manhole	Facility ID 40764	Facility Address 1831 WILLIAMSON CT	If Pump Station, Name of Pump Station:	Receiving Stream FLOYDS FORK	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823985	09/17/08 08:15 PM	MARKS JR	LAMBDIN JR	REPAIRED - ISSUE RESOLVED	09/17/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/17/08 08:30 PM	

Spot Inspections:

Discharge Amount:	750 GAL
Cause:	STATION WENT DOWN DUE TO POWER OVERLOAD
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED SOLIDS DEBRIS AND PERSONAL HYGENINE PRODUCTS
Repair:	ELECTRICIAN RESTORED POWER

Notifications:

09/18/08 03:24 AM	DISPUB	MSD advised customers of temp signs
09/18/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022420 (Cont'd)	Facility ID MSD0202	Treatment Plant Name HITE CREEK	Receiving Stream of Treatment Plant HITE CREEK	Region EAST
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Facility Type SMH Sewer Manhole	Facility ID 40765	Facility Address 1901 WILLIAMSON CT	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823488	09/15/08 01:45 PM	RICHARDSON	RICHARDSON	REPAIRED - ISSUE RESOLVED	09/15/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/15/08 03:00 PM	

Spot Inspections:

Discharge Amount:	200 GAL
Cause:	POWER OUTAGE PUMP STATION DOWN
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	MSD PERSONNEL POSTED SIGNS
Impact:	SEWER WATER DISCHARGING FROM THE MSD MANHOLE
Repair:	MSD OPERATION MADE THE REPAIRS AND FIXED THE PROBLEM

Notifications:

09/15/08 01:45 PM	DISPUB	ADVISED CUSTOMER BY DOORCARDS AND TELEPHONE
09/16/08 04:40 PM	DISNOT	Original notification was not sent. Workorder was changed to WUS after it was added. Notification was sent manually to Lisa Jeffries, Sean Ireland, eppc.ert@ky.gov, Brian Bingham, Julia Muller.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022420 (Cont'd)	Facility ID MSD0202	Treatment Plant Name HITE CREEK	Receiving Stream of Treatment Plant HITE CREEK	Region EAST
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Facility Type SLS Sewer Lift Station	Facility ID MSD1082-PS	Facility Address 7511 MEADOW STREAM CT	If Pump Station, Name of Pump Station: MEADOW STREAM	Receiving Stream FLOYDS FORK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823779	09/16/08 07:30 PM	MARKS JR	KESSEL	DOCUMENTED	01/03/05	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/16/08 09:00 PM	

Spot Inspections:

Discharge Amount:	25 GAL
Cause:	MECHANICAL FAILURE OF GENERATOR
Clean Up:	MSD RAKED & LIMED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	DEBRIS OBSERVED AND SEWAGE
Repair:	CALLED CONTRACTOR FOR REPAIRS

Notifications:

09/16/08 11:34 PM	DISPUB	temp signs posted
09/16/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0036501	Facility ID MSD0209	Treatment Plant Name BERRYTOWN WTP	Receiving Stream of Treatment Plant FLOYDS FORK	Region EAST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0209	Facility Address 1203 HEAFER RD	If Pump Station, Name of Pump Station:	Receiving Stream FLOYDS FORK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	825902	09/23/08 08:35 PM	MARKS JR	OTTO	REPAIRED - ISSUE RESOLVED	09/23/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/23/08 10:10 PM	

Spot Inspections:

Discharge Amount:	2,375 GAL
Cause:	LG&E CUT POWER TO REPAIR STORM DAMAGED UTILITY POLES
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED DISCHARGING
Repair:	GENERATOR PLACED TO PUT WWTP PLANT BACK IN SERVICE WO# 825901 SAP WO# 5196202

Notifications:

09/23/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/23/08 09:49 PM	DISPUB	temp signs posted to warn public
09/23/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194	Facility ID MSD0255	Treatment Plant Name JEFFERSONTOWN	Receiving Stream of Treatment Plant CHENOWETH RUN	Region CENT
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Facility Type SMH Sewer Manhole	Facility ID 92061	Facility Address 11804 CHIPPEWA RIDGE LN	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	803786	07/04/08 09:00 PM	ELDER	SKAGGS	DOCUMENTED	02/15/01	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	07/05/08 01:00 AM	

Spot Inspections:

Discharge Amount:	6,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	CLEANED AND SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND IMPACTED AREA
Impact:	SEWAGE OBSERVED
Repair:	PUMPED WELL DOWN

Notifications:

07/05/08 12:58 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/05/08 12:58 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 02:51 PM	DISPUB	Temporary signs placed around impacted area.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 (Cont'd) **Facility ID** MSD0255 **Treatment Plant Name** JEFFERSONTOWN **Receiving Stream of Treatment Plant** CHENOWETH RUN **Region** CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0255	10725 OLD TAYLORSVILLE RD		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	803780	07/04/08 07:58 PM	MARKS JR	LARUE	DOCUMENTED	01/14/07	BLENDING AT JTOWN WTP	DISCHARGE TO WATERS OF THE US	07/05/08 05:22 AM	

Spot Inspections:

Peak Plant Flow when Blending:	26,824,000 GPD
Total Plant Flow when Blending:	11,195,000 GAL
Discharge Amount:	707,000 GAL
Cause:	LACK OF SYSTEM CAPACITY CAUSED BY RAIN EVENT
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT
Control Zone:	TEMP SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

Notifications:

07/04/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 10:59 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 (Cont'd) **Facility ID** MSD0255 **Treatment Plant Name** JEFFERSONTOWN **Receiving Stream of Treatment Plant** CHENOWETH RUN **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	803781	07/04/08 10:40 PM	MARKS JR	LARUE	DOCUMENTED	01/14/07	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/04/08 10:43 PM	

Spot Inspections:

Discharge Amount:	500 GAL
Cause:	SURGE IN PLANT FLOW CAUSED A DISCHARGE
Clean Up:	MSD CONTRACTOR CLEANED AND SANITIZED AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SOILDS OBSERVED
Repair:	CONTINUE TO MONITOR PLANT FLOW TILL RAIN EVENT ENDS

Notifications:

07/04/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 11:09 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0029459	Facility ID MSD0263	Treatment Plant Name CHENOWETH HILLS	Receiving Stream of Treatment Plant CHENOWETH RUN	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0263	Facility Address 4305 ST RENE CT	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823275	09/14/08 03:00 PM	MARKS JR	TUTTLE	DOCUMENTED	09/27/02	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/14/08 05:00 PM	

Spot Inspections:

Discharge Amount:	600 GAL
Cause:	POWER FAILUER CAUSED BY WIND STORM
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	NO CONTROL ZONE REQUIRED
Impact:	NO IMPACT BYPASS WAS TREATED WATER
Repair:	GENERATOR PLACED TO RUN TREATMENT PLANT TIL POWER IS RESTORED

Notifications:

09/14/08 06:18 PM	DISPUB	notice of bypass was sent to general public
09/14/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0036323	Facility ID MSD0271	Treatment Plant Name YORKTOWN	Receiving Stream of Treatment Plant NORTHERN DITCH	Region WEST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0271	Facility Address 7418 YORKTOWN RD	If Pump Station, Name of Pump Station:	Receiving Stream NORTHERN DITCH	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	803647	07/03/08 08:00 AM	SINGLETON	RIES	DOCUMENTED	04/04/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/03/08 08:05 AM	

Spot Inspections:

Discharge Amount:	10 GAL
Cause:	SOLIDS INVENTORY AT PLANT WAS TOO HIGH
Clean Up:	CONTRACTOR CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND AFFECTED AREA
Impact:	SOLIDS & DISCOLORATION IN THE STREAM WAS OBSERVED
Repair:	HAD PLANT BIOSOLIDS HAULED THEN STARTED WASTING BIOSOLIDS.

Notifications:

07/03/08 08:00 AM	DISPUB	Temporary signs placed around affected area
07/07/08 03:40 PM	DISNOT	DISCHARGE NOTIFICATION FOR THIS WORK ORDER SENT MANUALLY ON JULY 7, 2008



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SMH Sewer Manhole	Facility ID 62023	Facility Address 4307 SOUTH RIDGE DR	If Pump Station, Name of Pump Station:	Receiving Stream POND CREEK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823473	09/15/08 02:45 PM	MARINO	MARINO	REPAIRED - ISSUE RESOLVED	09/15/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/15/08 03:50 PM	

Spot Inspections:

Discharge Amount:	50 GAL
Cause:	POWER OUTAGE PUMP STATION NOT WORKING
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE AND WATER DISCHARGING FROM MANHOLE
Repair:	OPEARATIONS REPAIRED THE PUMP STATION

Notifications:

09/15/08 02:45 PM	DISPUB	ADVISED CUSTOMER ON SITE
09/15/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SLS Sewer Lift Station	Facility ID MSD0133-PS	Facility Address 10212 CAVEN AVE	If Pump Station, Name of Pump Station: CAVEN AVE	Receiving Stream MUD CREEK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	822407	09/09/08 11:10 AM	SINGLETON	RIES	DOCUMENTED	04/04/08	MECHANICAL FAILURE	DISCHARGE TO WATERS OF THE US	09/09/08 11:40 AM	

Spot Inspections:

Discharge Amount:	40 GAL
Cause:	SEWAGE BACK FLOWED FROM LINE AS CHECK VALVE WAS BEING REPAIRED.
Clean Up:	AREA DISINFECTED WITH LIME
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA.
Impact:	SEWAGE WAS FOUND
Repair:	CHECK VALVE REPAIRS COMPLETE

Notifications:

09/09/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/09/08 11:10 AM	DISPUB	Temporary signs placed around impacted area



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SLS Sewer Lift Station	Facility ID MSD0140-PS	Facility Address 423 ECHAPPE LN	If Pump Station, Name of Pump Station: TREE LINE	Receiving Stream BEE LICK CREEK	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823551	09/16/08 01:15 AM	SINGLETON	RIES	REPAIRED - ISSUE RESOLVED	09/16/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/16/08 04:00 AM	

Spot Inspections:

Discharge Amount:	49,500 GAL
Cause:	POWER FAIL DUE TO STRONG WINDS IN THE AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AT THE IMPACTED AREA
Impact:	SEWAGE NOTICED IN THE AREA
Repair:	HAULED TO STOP THE OVERFLOW; WO#823669

Notifications:

09/16/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/16/08 01:15 AM	DISPUB	Temporary signs posted at impacted area



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SLS Sewer Lift Station	Facility ID MSD0180-PS	Facility Address 7201 OUTER LOOP	If Pump Station, Name of Pump Station: GOVERNMENT CENTER	Receiving Stream PENNSYLVANIA RUN	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823396	09/15/08 12:10 AM	MARKS JR	OTTO	DOCUMENTED	12/16/00	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/15/08 02:45 AM	

Spot Inspections:

Discharge Amount:	3,875 GAL
Cause:	LGE POWER FAILURE
Clean Up:	MSD SCRUBBED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	DEBRIS FOUND AT SITE
Repair:	HAULING STATION #823561

Notifications:

09/15/08 12:00 PM	DISPUB	temp signs posted
09/15/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0277	Facility Address 11621 LOWER RIVER RD	If Pump Station, Name of Pump Station:	Receiving Stream OHIO RIVER	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	817918	08/20/08 12:15 AM	ELDER	JONES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/20/08 07:15 AM	

Spot Inspections:

Discharge Amount:	3,791,667 GAL
Cause:	#2 BLOWER,BREAKER TRIPPED ON OVERLOAD
Clean Up:	PIPE DISCHARGE SUBMERGED - NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED - NO CONTROL ZONE SET UP
Impact:	PIPE DISCHARGE SUBMERGED - NO IMPACT OBSERVED
Repair:	RESET BREAKER ON #2 BLOWER.

Notifications:

08/20/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/20/08 12:15 AM	DISPUB	Flow was through the TP as usual but bypassed secondary aeration treatment.No notification made.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd) **Facility ID** MSD0277 **Treatment Plant Name** WEST COUNTY **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	817920	08/20/08 09:00 AM	ELDER	JONES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/20/08 10:40 AM	

Spot Inspections:

Discharge Amount:	902,778 GAL
Cause:	FOUND HYPOCHLORITE LEAKING FROM GROUND NEAR W2 BUILDING ON PAVEMENT. EFFLUENT DISCHARGED WITHOUT FULL TREATMENT
Clean Up:	CONTRACTOR VACTORED HYPOCHLORITE FROM GROUND THEN CLEANED & SANITIZED AREA.
Control Zone:	BARRICADES PLACED TO PROTECT PERSONNEL
Impact:	GRASS KILLED IN AREA & DISCOLORATION OF PAVEMENT
Repair:	API CONTRACTOR VACTORED HYPOCHLORITE UP & DISCHARGED BACK INTO MSD SEWAGE SYSTEM

Notifications:

08/20/08 09:00 AM	DISPUB	MSD notified employees & contractor (API) on site, & placed barricades.
08/20/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	818054	08/21/08 07:15 AM	SINGLETON	RIES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/21/08 08:30 AM	

Spot Inspections:

Discharge Amount:	520,833 GAL
Cause:	BACKUP CHEMICAL FEED HOSES STARTED TO LEAK
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	BARRICADES & TAPE WERE PUT OUT AROUND EFFECTED AREA.
Repair:	MAINTENANCE IS INSTALLING A NEW FITTING ON CHEMICAL FEED LINE & PURCHASING NEW HOSES. SAP WO#4013224

Notifications:

08/21/08 09:36 AM	DISPUB	Notified Robert Francis of the DOW #2283072 & set up barricades & tape around effected area.
08/21/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd) **Facility ID** MSD0277 **Treatment Plant Name** WEST COUNTY **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823278	09/14/08 04:20 PM	MARKS JR	LANGFORD	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/14/08 04:25 PM	

Spot Inspections:

Discharge Amount:	69,444 GAL
Cause:	LGE POWER FAILURE
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	NO CONTROL ZONE REQUIRED
Impact:	NO IMPACT OBSERVED
Repair:	CLOSED 120INCH GATE TO STOP PLANT FLOW TIL POWER RESTORED

Notifications:

09/14/08 09:43 PM	DISPUB	Public notified by Project WIN website & permanent signs.
09/14/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd)	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SMN Sewer Main	Facility ID MSD1147-PS	Facility Address 6500 MOUNT WASHINGTON RD	If Pump Station, Name of Pump Station:	Receiving Stream PENNSYLVANIA RUN	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	806000	07/11/08 09:50 AM	ELDER	LANGFORD	REPAIRED - ISSUE RESOLVED	07/11/08	STRUCTURAL FAILURE	DISCHARGE TO WATERS OF THE US	07/11/08 09:55 AM	

Spot Inspections:

Discharge Amount:	10,000 GAL
Cause:	STRUCTURE FAILURE OF BRACE OF DISCHARGE PIPE
Clean Up:	RAKED DEBRIS & HAULED
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE & SOLIDS
Repair:	CONTRACTOR IS REPAIRING PIPE WHILE MSD HAULS TO PREVENT ANY MORE OVERFLOW

Notifications:

07/11/08 12:57 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/11/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/11/08 12:23 PM	DISPUB	Temporary signs placed around affected area



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411	Facility ID MSD0278	Treatment Plant Name MORRIS FORMAN	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SMH Sewer Manhole	Facility ID 00056-W	Facility Address 804 N ARBOR DR	If Pump Station, Name of Pump Station:	Receiving Stream MIDDLE FORK BEARGRASS CREEK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823659	09/16/08 09:15 AM	SINGLETON	PORTER JR	DOCUMENTED	12/15/07	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/16/08 12:30 PM	

Spot Inspections:

Discharge Amount:	400 GAL
Cause:	POWER OUTAGE
Clean Up:	NO CLEANUP REQUIRED, NO SOLIDS OR DEBRIS.
Control Zone:	TEMPORARY SIGN PLACED AT LOCATION
Impact:	SEWAGE OBSERVED OVERFLOWING FROM WET WELL. NO SOLIDS OR DEBRIS OBSERVED.
Repair:	HAULING AT LOCATION HANSEN WO#823661

Notifications:

09/16/08 09:15 AM	DISPUB	Temporary signs placed at location
09/16/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) **Facility ID** MSD0278 **Treatment Plant Name** MORRIS FORMAN **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	11760A	1235 E OAK ST		SOUTH FORK BEARGRASS CREEK	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	827763	09/26/08 01:30 PM	BRIGHT	BRIGHT	REPAIRED - ISSUE RESOLVED	09/26/08	STRUCTURAL FAILURE	DISCHARGE TO WATERS OF THE US	09/26/08 08:30 PM	

Spot Inspections:

Discharge Amount:	120 GAL
Cause:	STRUCTURAL FAILURE OF MAIN SEWER
Clean Up:	NO CLEAN UP PERFORMED. PIPE DISCHARGING DIRECTLY INTO IMPROVED CHANNEL
Control Zone:	NO CONTROL ZONE WAS SET UP. PIPE DISCHARGING DIRECTLY INTO IMPROVED CHANNEL
Impact:	SEWAGE DISCHARGING THROUGH PIPE HANGING ON WALL OF BRIDGE
Repair:	MAC CONSTRUCTION REPAIRED THE SEWER LEAK

Notifications:

09/26/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/26/08 01:30 PM	DISPUB	THERE ARE PERMANENT SIGNS ALL THROUGH THE IMPROVED CHANNEL AND AREA IMPACTED IS NOT ACCESSIBLE TO PUBLIC.
09/26/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) **Facility ID** MSD0278 **Treatment Plant Name** MORRIS FORMAN **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	827777	09/26/08 01:30 PM	COWARD	BRIGHT	REPAIRED - ISSUE RESOLVED	09/26/08	STRUCTURAL FAILURE	DISCHARGE TO WATERS OF THE US	09/26/08 08:30 PM	

Spot Inspections:

Discharge Amount:	35 GAL
Cause:	STRUCTURAL FAILURE OF MANHOLE
Clean Up:	NO CLEAN UP PERFORMED. MH DISCHARGING DIRECTLY INTO IMPROVED CHANNEL
Control Zone:	NO CONTROL ZONE WAS SET UP. MH DISCHARGING DIRECTLY INTO IMPROVED CHANNEL
Impact:	SEWAGE DISCHARGING THROUGH MH ON SIDE OF IMPROVED CHANNEL
Repair:	MAC CONSTRUCTION COMPANY REPAIRED THE SEWER MH LEAK

Notifications:

09/26/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/26/08 01:30 PM	DISPUB	THERE ARE PERMANENT SIGNS ALL THROUGH THE IMPROVED CHANNEL AND AREA IMPACTED IS NOT ACCESSIBLE TO PUBLIC.
09/26/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd)	Facility ID MSD0278	Treatment Plant Name MORRIS FORMAN	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SLS Sewer Lift Station	Facility ID MSD0002-PS	Facility Address 4800 HAZELWOOD AVE	If Pump Station, Name of Pump Station: HAZELWOOD	Receiving Stream MILL CREEK	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823753	09/16/08 10:50 AM	SINGLETON	SIVADO	REPAIRED - ISSUE RESOLVED	09/17/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/17/08 01:50 PM	

Spot Inspections:

Discharge Amount:	8,100 GAL
Cause:	POWER FAIL DUE TO STRONG WINDS IN THE AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED, CAUTION TAPE AROUND IMPACTED AREA, DOOR HANGERS PLACED ON HOMEOWNER'S DOOR
Impact:	SEWAGE WAS OBSERVED
Repair:	HAULED TO PREVENT OVERFLOW #823966

Notifications:

09/16/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/16/08 10:50 AM	DISPUB	MSD advised customer by door hanger
09/16/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd)	Facility ID MSD0278	Treatment Plant Name MORRIS FORMAN	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SLS Sewer Lift Station	Facility ID MSD0125-PS	Facility Address 3602 TRAIL RIDGE RD	If Pump Station, Name of Pump Station: TRAIL RIDGE	Receiving Stream LITTLE GOOSE CREEK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	824254	09/19/08 08:30 AM	ELDER	ROTH	REPAIRED - ISSUE RESOLVED	09/19/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/20/08 10:00 AM	

Spot Inspections:

Discharge Amount:	900 GAL
Cause:	LG&E POWER LOSS DUE TO HURRICANE IKE STORM WIND DAMAGE
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND AFFECTED AREA
Impact:	SEWAGE ON THE GROUND
Repair:	MOVING GENERATOR MSD0003 TO PUMP DODN WW

Notifications:

09/19/08 12:57 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/19/08 08:30 AM	DISPUB	Temporary signs placed around the affected area
09/19/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0098540	Facility ID MSD0289	Treatment Plant Name CEDAR CREEK	Receiving Stream of Treatment Plant CEDAR CREEK	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0289	Facility Address 8605 CEDAR CREEK RD	If Pump Station, Name of Pump Station:	Receiving Stream CEDAR CREEK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	804753	07/06/08 08:00 AM	ELDER	SMITH	REPAIRED - ISSUE RESOLVED	07/06/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/06/08 01:30 PM	

Spot Inspections:

Discharge Amount:	338,437 GAL
Cause:	MECHANICAL FAILURE OF THE LOW LEVEL PROBE.
Clean Up:	CLEANUP NOT POSSIBLE.
Control Zone:	NOT POSSIBLE
Impact:	INCOMPLETE UV TREATMENT
Repair:	IMMEDIATE SHUTTING OF GATES TO STOP FLOW.TAKE 1 CHANNEL OUT OF SERVICE WITH FAILED DEVICE.ORDERED NEW DEVICE FOR REPAIRS TO SYSTEM

Notifications:

07/08/08 02:02 PM	DISNOT	Discharge notification email forwarded manually July 08, 2008 at 2:04 PM
08/14/08 11:17 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0039021	Facility ID MSD0290	Treatment Plant Name BANCROFT	Receiving Stream of Treatment Plant GOOSE CREEK	Region EAST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0290	Facility Address 7610 OLD ORCHARD CIR	If Pump Station, Name of Pump Station:	Receiving Stream GOOSE CREEK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	821512	09/04/08 09:00 AM	MARKS JR	BROWN	REPAIRED - ISSUE RESOLVED	09/19/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/04/08 09:20 AM	

Spot Inspections:

Discharge Amount:	400 GAL
Cause:	CLARIFIER OVER LOADED
Clean Up:	NO DEBRIS OBSERVED MSD PERSONEL CLEANED AND SANITIZED AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DISCOLORATION IN STREAM
Repair:	IN FUTURE START COLLECTOR AND START WASTEING DURING REFILLING OF CLARIFIER

Notifications:

09/04/08 01:29 PM	DISPUB	temporary signs posted around area of discharge
09/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0039021 (Cont'd)	Facility ID MSD0290	Treatment Plant Name BANCROFT	Receiving Stream of Treatment Plant GOOSE CREEK	Region EAST
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	824503	09/19/08 04:10 PM	MARKS JR	BROWN	REPAIRED - ISSUE RESOLVED	09/19/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/19/08 05:00 PM	

Spot Inspections:

Discharge Amount:	900 GAL
Cause:	COLLECTOR DRIVE MALFUNCTIONED
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	TEMP SIGNS POSTED
Impact:	DISCOLORATION OF STREAM
Repair:	REPAIRED COLLECTOR DRIVE AND CLEANED OUT CHLORINE CONTACT CHAMBER

Notifications:

09/19/08 08:12 PM	DISPUB	public notified by temporary signs
09/19/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0029114	Facility ID MSD0292	Treatment Plant Name HUNTING CREEK SOUTH	Receiving Stream of Treatment Plant HARRODS CREEK	Region EAST
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Facility Type SLS Sewer Lift Station	Facility ID MSD1062-LS	Facility Address 7804 DEEP TRAIL CT	If Pump Station, Name of Pump Station: DEEP TRAIL	Receiving Stream HARRODS CREEK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	824061	09/18/08 08:15 AM	ELDER	DUNN JR	REPAIRED - ISSUE RESOLVED	09/18/08	POWER OUTAGE (LG&E)	DISCHARGE TO WATERS OF THE US	09/18/08 10:00 AM	

Spot Inspections:

Discharge Amount:	525 GAL
Cause:	LOSS OF LG&E POWER DUE TO STORM 9/14
Clean Up:	MSD CLEANED AND SANITIZED AREA
Control Zone:	TEMP SIGNS ARE POSTED
Impact:	SEWAGE AND DEBRIS WERE OBSERVED
Repair:	POWER WAS RESTORED

Notifications:

09/18/08 12:57 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/18/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/18/08 08:15 AM	DISPUB	Temporary signs were posted at effected area



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0029114 (Cont'd)	Facility ID MSD0292	Treatment Plant Name HUNTING CREEK SOUTH	Receiving Stream of Treatment Plant HARRODS CREEK	Region EAST
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Facility Type SLS Sewer Lift Station	Facility ID MSD1065-PS	Facility Address 6808 FAIRWAY VIEW CT	If Pump Station, Name of Pump Station: FAIRWAY VIEW	Receiving Stream HARRODS CREEK	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	808052	07/18/08 08:40 AM	MARKS JR	COOMER	DOCUMENTED	10/14/02	ELECTRICAL PROBLEMS AT MSD	DISCHARGE TO WATERS OF THE US	07/18/08 09:30 AM	

Spot Inspections:

Discharge Amount:	100 GAL
Cause:	BAD ELECTRICAL BREAKER
Clean Up:	MSD CLEANED AND SANITIZED AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	ELECTRICIAN REPAIRED AND INSTALLED NEW BREAKER

Notifications:

07/18/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 11:20 AM	DISPUB	Notification made by temporary signs at overflow.



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0029114 (Cont'd) **Facility ID** MSD0292 **Treatment Plant Name** HUNTING CREEK SOUTH **Receiving Stream of Treatment Plant** HARRODS CREEK **Region** EAST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	822097	09/08/08 11:00 AM	MARKS JR	KUSTES	DOCUMENTED	10/14/02	ELECTRICAL PROBLEMS AT MSD	DISCHARGE TO WATERS OF THE US	09/08/08 11:30 AM	

Spot Inspections:

Discharge Amount:	30 GAL
Cause:	ELECTRICAL PROBLEMS AT STATION
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	HAULED TILL REPAIRS COMPLETE HANSEN WO# 822095

Notifications:

09/08/08 02:00 PM	DISPUB	temporary signs posted around area.
09/08/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 23
Total Work Orders Printed: 30

Appendix B-2 - Discharge Work Orders – Bypass



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0036501	Facility ID MSD0209	Treatment Plant Name BERRYTOWN WTP	Receiving Stream of Treatment Plant FLOYDS FORK	Region EAST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0209	Facility Address 1203 HEAFER RD	If Pump Station, Name of Pump Station:	Receiving Stream FLOYDS FORK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	825902	09/23/08 08:35 PM	MARKS JR	OTTO	REPAIRED - ISSUE RESOLVED	09/23/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/23/08 10:10 PM	

Spot Inspections:

Discharge Amount:	2,375 GAL
Cause:	LG&E CUT POWER TO REPAIR STORM DAMAGED UTILITY POLES
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED DISCHARGING
Repair:	GENERATOR PLACED TO PUT WWTP PLANT BACK IN SERVICE WO# 825901 SAP WO# 5196202

Notifications:

09/23/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/23/08 09:49 PM	DISPUB	temp signs posted to warn public
09/23/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194	Facility ID MSD0255	Treatment Plant Name JEFFERSONTOWN	Receiving Stream of Treatment Plant CHENOWETH RUN	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0255	Facility Address 10725 OLD TAYLORSVILLE RD	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	803781	07/04/08 10:40 PM	MARKS JR	LARUE	DOCUMENTED	01/14/07	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/04/08 10:43 PM	

Spot Inspections:

Discharge Amount:	500 GAL
Cause:	SURGE IN PLANT FLOW CAUSED A DISCHARGE
Clean Up:	MSD CONTRACTOR CLEANED AND SANITIZED AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SOILS OBSERVED
Repair:	CONTINUE TO MONITOR PLANT FLOW TILL RAIN EVENT ENDS

Notifications:

07/04/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 11:09 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0029459	Facility ID MSD0263	Treatment Plant Name CHENOWETH HILLS	Receiving Stream of Treatment Plant CHENOWETH RUN	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0263	Facility Address 4305 ST RENE CT	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823275	09/14/08 03:00 PM	MARKS JR	TUTTLE	DOCUMENTED	09/27/02	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/14/08 05:00 PM	

Spot Inspections:

Discharge Amount:	600 GAL
Cause:	POWER FAILUER CAUSED BY WIND STORM
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	NO CONTROL ZONE REQUIRED
Impact:	NO IMPACT BYPASS WAS TREATED WATER
Repair:	GENERATOR PLACED TO RUN TREATMENT PLANT TIL POWER IS RESTORED

Notifications:

09/14/08 06:18 PM	DISPUB	notice of bypass was sent to general public
09/14/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0036323	Facility ID MSD0271	Treatment Plant Name YORKTOWN	Receiving Stream of Treatment Plant NORTHERN DITCH	Region WEST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0271	Facility Address 7418 YORKTOWN RD	If Pump Station, Name of Pump Station:	Receiving Stream NORTHERN DITCH	Discharge to DITCH
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	803647	07/03/08 08:00 AM	SINGLETON	RIES	DOCUMENTED	04/04/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/03/08 08:05 AM	

Spot Inspections:

Discharge Amount:	10 GAL
Cause:	SOLIDS INVENTORY AT PLANT WAS TOO HIGH
Clean Up:	CONTRACTOR CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND AFFECTED AREA
Impact:	SOLIDS & DISCOLORATION IN THE STREAM WAS OBSERVED
Repair:	HAD PLANT BIOSOLIDS HAULED THEN STARTED WASTING BIOSOLIDS.

Notifications:

07/03/08 08:00 AM	DISPUB	Temporary signs placed around affected area
07/07/08 03:40 PM	DISNOT	DISCHARGE NOTIFICATION FOR THIS WORK ORDER SENT MANUALLY ON JULY 7, 2008



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956	Facility ID MSD0277	Treatment Plant Name WEST COUNTY	Receiving Stream of Treatment Plant OHIO RIVER	Region WEST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0277	Facility Address 11621 LOWER RIVER RD	If Pump Station, Name of Pump Station:	Receiving Stream OHIO RIVER	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	817918	08/20/08 12:15 AM	ELDER	JONES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/20/08 07:15 AM	

Spot Inspections:

Discharge Amount:	3,791,667 GAL
Cause:	#2 BLOWER,BREAKER TRIPPED ON OVERLOAD
Clean Up:	PIPE DISCHARGE SUBMERGED - NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED - NO CONTROL ZONE SET UP
Impact:	PIPE DISCHARGE SUBMERGED - NO IMPACT OBSERVED
Repair:	RESET BREAKER ON #2 BLOWER.

Notifications:

08/20/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/20/08 12:15 AM	DISPUB	Flow was through the TP as usual but bypassed secondary aeration treatment.No notification made.



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd) **Facility ID** MSD0277 **Treatment Plant Name** WEST COUNTY **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	817920	08/20/08 09:00 AM	ELDER	JONES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/20/08 10:40 AM	

Spot Inspections:

Discharge Amount:	902,778 GAL
Cause:	FOUND HYPOCHLORITE LEAKING FROM GROUND NEAR W2 BUILDING ON PAVEMENT. EFFLUENT DISCHARGED WITHOUT FULL TREATMENT
Clean Up:	CONTRACTOR VACTORED HYPOCHLORITE FROM GROUND THEN CLEANED & SANITIZED AREA.
Control Zone:	BARRICADES PLACED TO PROTECT PERSONNEL
Impact:	GRASS KILLED IN AREA & DISCOLORATION OF PAVEMENT
Repair:	API CONTRACTOR VACTORED HYPOCHLORITE UP & DISCHARGED BACK INTO MSD SEWAGE SYSTEM

Notifications:

08/20/08 09:00 AM	DISPUB	MSD notified employees & contractor (API) on site, & placed barricades.
08/20/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd) **Facility ID** MSD0277 **Treatment Plant Name** WEST COUNTY **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	818054	08/21/08 07:15 AM	SINGLETON	RIES	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	08/21/08 08:30 AM	

Spot Inspections:

Discharge Amount:	520,833 GAL
Cause:	BACKUP CHEMICAL FEED HOSES STARTED TO LEAK
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	BARRICADES & TAPE WERE PUT OUT AROUND EFFECTED AREA.
Repair:	MAINTENANCE IS INSTALLING A NEW FITTING ON CHEMICAL FEED LINE & PURCHASING NEW HOSES. SAP WO#4013224

Notifications:

08/21/08 09:36 AM	DISPUB	Notified Robert Francis of the DOW #2283072 & set up barricades & tape around effected area.
08/21/08 12:57 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0078956 (Cont'd) **Facility ID** MSD0277 **Treatment Plant Name** WEST COUNTY **Receiving Stream of Treatment Plant** OHIO RIVER **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	823278	09/14/08 04:20 PM	MARKS JR	LANGFORD	DOCUMENTED	10/17/06	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/14/08 04:25 PM	

Spot Inspections:

Discharge Amount:	69,444 GAL
Cause:	LGE POWER FAILURE
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	NO CONTROL ZONE REQUIRED
Impact:	NO IMPACT OBSERVED
Repair:	CLOSED 120INCH GATE TO STOP PLANT FLOW TIL POWER RESTORED

Notifications:

09/14/08 09:43 PM	DISPUB	Public notified by Project WIN website & permanent signs.
09/14/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0098540	Facility ID MSD0289	Treatment Plant Name CEDAR CREEK	Receiving Stream of Treatment Plant CEDAR CREEK	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0289	Facility Address 8605 CEDAR CREEK RD	If Pump Station, Name of Pump Station:	Receiving Stream CEDAR CREEK	Discharge to GROUND
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	804753	07/06/08 08:00 AM	ELDER	SMITH	REPAIRED - ISSUE RESOLVED	07/06/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	07/06/08 01:30 PM	

Spot Inspections:

Discharge Amount:	338,437 GAL
Cause:	MECHANICAL FAILURE OF THE LOW LEVEL PROBE.
Clean Up:	CLEANUP NOT POSSIBLE.
Control Zone:	NOT POSSIBLE
Impact:	INCOMPLETE UV TREATMENT
Repair:	IMMEDIATE SHUTTING OF GATES TO STOP FLOW.TAKE 1 CHANNEL OUT OF SERVICE WITH FAILED DEVICE.ORDERED NEW DEVICE FOR REPAIRS TO SYSTEM

Notifications:

07/08/08 02:02 PM	DISNOT	Discharge notification email forwarded manually July 08, 2008 at 2:04 PM
08/14/08 11:17 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0039021	Facility ID MSD0290	Treatment Plant Name BANCROFT	Receiving Stream of Treatment Plant GOOSE CREEK	Region EAST
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0290	Facility Address 7610 OLD ORCHARD CIR	If Pump Station, Name of Pump Station:	Receiving Stream GOOSE CREEK	Discharge to STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	821512	09/04/08 09:00 AM	MARKS JR	BROWN	REPAIRED - ISSUE RESOLVED	09/19/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/04/08 09:20 AM	

Spot Inspections:

Discharge Amount:	400 GAL
Cause:	CLARIFIER OVER LOADED
Clean Up:	NO DEBRIS OBSERVED MSD PERSONEL CLEANED AND SANITIZED AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DISCOLORATION IN STREAM
Repair:	IN FUTURE START COLLECTOR AND START WASTEING DURING REFILLING OF CLARIFIER

Notifications:

09/04/08 01:29 PM	DISPUB	temporary signs posted around area of discharge
09/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0039021 (Cont'd)	MSD0290	BANCROFT	GOOSE CREEK	EAST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	824503	09/19/08 04:10 PM	MARKS JR	BROWN	REPAIRED - ISSUE RESOLVED	09/19/08	BYPASS AT TREATMENT PLANT	DISCHARGE TO WATERS OF THE US	09/19/08 05:00 PM	

Spot Inspections:

Discharge Amount:	900 GAL
Cause:	COLLECTOR DRIVE MALFUNCTIONED
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	TEMP SIGNS POSTED
Impact:	DISCOLORATION OF STREAM
Repair:	REPAIRED COLLECTOR DRIVE AND CLEANED OUT CHLORINE CONTACT CHAMBER

Notifications:

09/19/08 08:12 PM	DISPUB	public notified by temporary signs
09/19/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 7
Total Work Orders Printed: 11

Appendix B-3 - Discharge Work Orders – Blending



Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 **Facility ID** MSD0255 **Treatment Plant Name** JEFFERSONTOWN **Receiving Stream of Treatment Plant** CHENOWETH RUN **Region** CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0255	10725 OLD TAYLORSVILLE RD		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	803780	07/04/08 07:58 PM	MARKS JR	LARUE	DOCUMENTED	01/14/07	BLENDING AT JTOWN WTP	DISCHARGE TO WATERS OF THE US	07/05/08 05:22 AM	

Spot Inspections:

Peak Plant Flow when Blending:	26,824,000 GPD
Total Plant Flow when Blending:	11,195,000 GAL
Discharge Amount:	707,000 GAL
Cause:	LACK OF SYSTEM CAPACITY CAUSED BY RAIN EVENT
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT
Control Zone:	TEMP SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

Notifications:

07/04/08 12:57 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/04/08 12:57 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/14/08 10:59 AM	DISPUB	Notification made by permanent sign at effluent.



Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

Total Facilities Printed: 1
Total Work Orders Printed: 1

Appendix C – Annual Average Overflow Volume

Appendix C
Louisville MSD
CSO

CSO	CSO NAME	RECEIVING STREAM	Drainage Area (Acres)	DEC 2003 XP-SWMM AAOV (MG/YR)	DEC 2003 No. of OF Incidents (# OF/YR)	OCT 2008 Info- Works CS AAOV (MG/YR)	OCT 2008 No. of OF Incidents (# OF/YR)	Change in AAOV (MG/YR)
015	SOUTHWESTERN PS	OR	7,496.7	844.83	39	1177.03	56	332.20
016	MILES PARK BYPASS	OR		0.00	0	82.38	37	82.38
018	NIGHTINGALE PS	SF BGC		0.64	1	49.00	16	48.36
019	34th STREET PS	OR	1,094.0	95.45	49	297.92	60	202.47
020	BUCHANAN PS	OR	86.6	40.23	41	6.46	14	-33.77
022	FOURTH ST PS	OR	100.9	7.45	13	0.95	4	-6.50
023	ORI @ 4th ST PS	OR		0.85	3	85.96	26	85.11
026	CRD 6th & BROADWAY	OR	8.4	0.00	0	0.00	0	0.00
027	CRD 7th & BROADWAY	OR	10.1	0.00	0	0.00	0	0.00
028	CRD 6th & YORK	OR	6.1	0.08	4	0.00	0	-0.08
029	CRD 8th & YORK	OR	34.8	2.94	24	5.66	33	2.72
030	CRD 9th & YORK "A"	OR	14.1	1.46	17	Eliminated		
031	CRD 6th & BRECKINRIDGE	OR	3.7	0.00	0	0.00	0	0.00
032	CRD 4th & BRECKINRIDGE	OR		0.00	0	Eliminated		
033	CRD ON YORK E OF 4th	OR	7.1	0.01	2	Eliminated		
034	CRD 4th & YORK	OR	5.1	1.41	35	0.00	0	-1.41
035	CRD 2nd & BROADWAY NO 1	OR	14.3	0.21	11	0.23	11	0.02
036	CRD 3rd & BROADWAY	OR	23.1	0.32	12	0.03	4	-0.29
038	CRD 5th & BROADWAY	OR	9.5	0.004	2	0.00	0	0.00
049	PRESTON ST	OR	Eliminated					
050	12th STREET	OR	36.3	7.09	34	43.75	42	36.66
051	11th STREET	OR	6.3	0.36	9	4.95	27	4.59
052	10th STREET	OR	8.7	0.52	8	9.81	33	9.29
053	8th STREET	OR	34.1	5.61	32	4.61	23	-1.00
054	7th STREET	OR	7.1	0.96	18	0.11	32	-0.85
055	6th STREET	OR	18.0	2.80	18	21.10	34	18.30
056	5th STREET	OR	22.0	4.60	33	2.91	18	-1.69
057	FIRST STREET OVFL WEIR	OR		0.00	0	0.00	0	0.00
058	PRESTON ST OVFL WEIR	OR	105.4	5.26	22	121.51	51	116.25
062	LOGAN COMPANY	OR		48.42	47	0.00	0	-48.42
065	LAMPTON STREET	SF BGC	Eliminated					
080	PAYNE STREET	MF BGC	Eliminated					

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Louisville MSD
CSO

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081	LETTERLE	SF BGC	Eliminated	0.00	0			
082	BGI AT BGC	SF BGC		0.59	12	1.16	24	0.57
083	BRENT ST & BROADWAY CONNECT	SF BGC	38.1	2.67	36	0.00	0	-2.67
084	BRENT ST @ BGC	SF BGC	125.1	2.21	15	17.96	34	15.75
086	PAYNE AT SPRING	MF BGC	6.1	0.00	0	0.00	0	0.00
087	BLUEHORSE	SF BGC	Eliminated	0.00	0			
088	MELLWOOD AVE INT	SF BGC	18.8	Assumed Eliminated in 20		0.58	6	0.58
091	SCHILLER AVE OVFL	SF BGC	15.0	0.06	3	1.62	34	1.56
092	ST CATHERINE @ BGC	SF BGC	7.7	0.003	2	0.00	0	0.00
093	SPRING STREET	SF BGC	20.8	0.00	0	1.81	37	1.81
097	CANTONMENT SIPHON NO 2	SF BGC		49.81	56	16.19	44	-33.62
104	SW PKWY SEWER @ BROADWAY	OR	62.0	6.29	21	0.20	5	-6.09
105	WESTERN OUTFALL @ BROADWAY	OR	1,881.2	351.42	82	21.43	19	-329.99
106	ROYAL - NEFF	SF BGC	11.8	0.10	11	0.34	17	0.24
108	REG NO 1 - NEWBURG	SF BGC	485.2	39.59	34	31.83	13	-7.76
109	REG NO 2 - DEER PARK	SF BGC	95.4	2.97	19	0.27	3	-2.70
110	REG NO 3 - GOSS AVE	SF BGC	73.0	3.90	32	30.49	44	26.59
111	EMERSON STREET SEWER	SF BGC	99.4	9.55	39	0.00	0	-9.55
113	ELLISON AVENUE SEWER	SF BGC	67.6	7.83	46	7.74	37	-0.09
117	REG NO 11 - DRY RUN	SF BGC	74.2	82.53	37	94.99	41	12.46
118	REG NO 15 - E BRDWY	SF BGC	354.1	169.76	64	100.49	39	-69.27
119	BRENT STREET SEWER	SF BGC	7.6	2.35	27	12.59	40	10.24
120	PHOENIX HILL SEWER	SF BGC	16.5	4.35	24	9.24	51	4.89
121	REG NO 18 - GREEN ST	SF BGC	107.2	3.20	23	11.26	28	8.06
123	REG NO 20 - RUTH-SULGRV	MF BGC	Eliminated					
125	REG NO 24 - GRINSTEAD DR	MF BGC	391.0	18.40	30	48.58	55	30.18
126	REG NO 26 - RAYMOND AVE	MF BGC	35.3	0.27	6	0.55	13	0.28
127	ETLEY AVENUE	MF BGC	192.3	13.32	29	4.63	21	-8.69
130	WEBSTER STREET	SF BGC	28.4	6.51	26	0.86	10	-5.65
131	REG NO 33 - MELWD & FRANKFORT	SF BGC	50.3	0.22	3	0.06	3	-0.16
132	REG NO 35 - BROWNSBORO	MudF BGC	674.0	117.66	64	149.39	56	31.73
137	CALVARY CEMETARY	SF BGC	26.7	1.10	19	3.94	37	2.84

Appendix C
Louisville MSD
CSO

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140	LOCUST STREET	MF BGC	75.5	5.07	28	17.01	54	11.94
141	BAXTER AVE @ BGC	SF BGC	7.7	0.00	0	5.07	27	5.07
143	KENTUCKY ST BLOW-OFF	SF BGC	Eliminated					
144	VANCE ST REGULATOR	MF BGC	16.4	0.61	27	0.00	0	-0.61
145	POINT PUMP STATION	SF BGC	Eliminated					
146	SNEADS BRANCH DIVERSION	SF BGC	112.6	91.68	51	50.45	46	-41.23
147	SWAN STREET DIVERSION	SF BGC	Eliminated	1.30	65			
148	EASTERN PKWY DIVERSION	SF BGC	24.9	0.27	12	1.27	26	1.00
149	DRY RUN DIVERSION	SF BGC	226.5	6.90	19	56.93	38	50.03
150	8th ST @ COMMON PLACE	OR	1.8	4.26	49	8.50	35	4.24
151	REG NO 5 - CASTLEWOOD	SF BGC	219.7	143.91	64	85.00	56	-58.91
152	REG NO 7 - SOUTHEASTERN	SF BGC	260.6	34.40	42	76.43	52	42.03
153	COOPER STREET	SF BGC	41.7	7.15	53	15.67	56	8.52
154	MELLWOOD @ SCHOEFFEL	MudF BGC	31.0	1.53	12	1.96	16	0.43
155	ROWAN ST @ 12th ST	OR	11.9	0.07	4	2.06	39	1.99
156	6th & WASHINGTON SAN DIV	OR		0.00	0	0.12	12	0.12
160	SEWER IN ALLEY SAN DIV	OR	2.0	0.22	22	0.28	28	0.06
161	MARKET ST SAN DIV	OR	2.5	0.19	16	0.01	1	-0.18
162	BEALS BRANCH HW REG	MF BGC	Eliminated					
166	BEALS BRANCH SAN DIV	MF BGC	696.6	16.32	31	10.09	19	-6.23
167	BROWNSBORO LAT NO 2	MudF BGC	11.0	0.00	0	1.00	12	1.00
172	ADAMS STREET	OR	13.7	0.17	14	1.28	31	1.11
178	CRD 9th & YORK "B"	OR	58.0	0.14	5	1.44	16	1.30
179	KENTUCKY ST SEWER OVFL	SF BGC	456.2	0.08	14	0.00	0	-0.08
181	CRD 2nd & BROADWAY NO 2	OR	22.6	0.38	14	0.27	11	-0.11
189	NORTHWESTERN SAN DIV	OR	1,148.7	553.06	54	184.41	38	-368.65
190	SEVENTEENTH ST SAN DIV	OR	145.4	10.57	36	36.19	49	25.62
191	ALGONQUIN PKWY SAN DIV	OR	339.7	4.17	14	51.08	30	46.91
192	CRD S 6th & GARLAND	OR	9.0	0.22	14	0.00	0	-0.22
193	CRD S 6th & KENTUCKY	OR	22.7	0.15	14	0.04	5	-0.11
194	CRD S OAK W OF 4th	OR	Eliminated	0.00	0			
195	CRD S 4th & OAK	OR	7.3	0.00	0	2.19	55	2.19

Appendix C
Louisville MSD
CSO

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196	CRD S 3rd & OAK	OR	2.2	1.61	58	0.24	19	-1.37
197	CRD S 3rd S OF OAK	OR	4.5	0.58	33	4.17	53	3.59
198	CRD S 3rd & ORMSBY	OR	4.4	1.82	57	0.00	5	-1.82
199	CRD S 3rd N OF MAGNOLIA	OR	8.6	0.01	11	0.46	45	0.45
200	CRD S 3rd & MAGNOLIA	OR	10.3	0.25	31	4.91	65	4.66
201	CRD S 5th & KENTUCKY	OR	8.3	0.43	27	0.00	0	-0.43
202	CRD S ORMSBY W OF 3rd	OR	5.3	0.07	19	0.09	13	0.02
203	CRD S 4th & ORMSBY	OR	14.2	0.00	0	0.00	0	0.00
204	CRD S FIFTH & BRECKINRIDGE	OR	Eliminated					
206	CHEROKEE PARK @ SPRING DR	MF BGC	464.6	88.89	63	8.64	39	-80.25
207	2nd & JEFFERSON	OR	2.3	0.00	0	0.05	2	0.05
208	12th & JEFFERSON	OR	11.2	0.00	0	0.33	11	0.33
209	CHEROKEE PK @ PARK BD RD	MF BGC	Eliminated					
210	45th STREET-GREENWOOD	OR	166.7	21.16	54	503.73	52	482.57
211	MAIN DIVERSION STRUCTURE	OR	3,554.9	511.89	43	465.55	29	-46.34
SBR	CSOs 142,174,180,182,183,184,185,186,187,188,205			0.00	0	12.15	9	12.15
Total				3,478	2,304	4,092	2,326	
				Total AAOV Difference (MG/YR)	613.94			
				Total AAOV Difference (Percentage)	15%			

Appendix D – Flow Monitoring Data

Appendix E – Acronyms

Appendix E - Acronyms for Project WIN Quarterly Report

AAM	Advanced Asset Management
AAOV	Annual Average Overflow Volume
ADAPS	Automated Data Processing System
BGC	Beargrass Creek
BMP	Best Management Practices
CCP	Composite Correction Plan
CD	Consent Decree
CMF	Central Maintenance Facility
CMMS	Computerized Maintenance Management System
CMOM	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
CSSA	Continuing Sewer System Assessment
DMR	Discharge Monitoring Report
eB	Enterprise Bridge (Spescom scanning software for document management)
EMC	Event Mean Concentration
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FM	Force Main
FOG	Fats, Oil & Grease
FSE	Food Service Establishment
FY	Fiscal Year
GCE	Grease Control Equipment
GIS	Geographical Information System
I&FP	Infrastructure & Flood Protection (MSD Division)
ICA	Interceptor Condition Assessment
I&I	Inflow and Infiltration
IMS	Information Management System
IOAP	Integrated Overflow Abatement Plan
ISSDP	Interim Sanitary Sewer Discharge Plan
IT	Information Technology
JCPS	Jefferson County Public Schools
KDEP	Kentucky Department of Environmental Protection
KPDES	Kentucky Pollutant Discharge Elimination System
LE	Lateral Extension
LID	Low Impact Development
LIMS	Laboratory Information Management System
LTC	Long Term Control
LTCP	Long Term Control Plan
MDS	Main Diversion Structure
MFWTP	Morris Forman Wastewater Treatment Plant
MGD	Million Gallons Per Day
MOR	Monthly Operating Report
MSD	Metropolitan Sewer District (Louisville and Jefferson County)
NDD	Non-Domestic Dischargers
NMC	Nine Minimum Controls
ORSANCO	Ohio River Valley Water Sanitation Commission

Appendix E - Acronyms for Project WIN Quarterly Report

PACP	Pipeline Assessment and Certification Program
PCM	Post Construction Monitoring
PI	Plant Information System
PM	Preventive Maintenance
PS	Pump Station
PSC	Property Service Connection
RDII	Rainfall-Derived Infiltration and Inflow
RS	Regulatory Services
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SIU	Significant Industrial User
SOP	Standard Operating Procedure
SORP	Sewer Overflow Response Protocol
SSDP	Sanitary Sewer Discharge Plan
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR2	Southwestern Outfall Relief - Phase 2
SWPS	Southwestern Pump Station
TM	Technical Memorandum
TMDL	Total Maximum Daily Load
UIM	Utility Information Management
UK	University of Kentucky
USACE	US Army Corps of Engineers
USGS	United States Geological Survey
WDR	Wastewater Discharge Regulators
WIN	Waterway Improvements Now
WQT	Water Quality Tool
WTP	Wastewater Treatment Plant
WWT	Wet Weather Team

Appendix F – RTC Report



Louisville/Jefferson County
Metropolitan Sewer District



WET WEATHER STORAGE IN THE MORRIS FORMAN SEWER SYSTEM VIA GOP RTC

Period	
From :	7/1/2008
To :	9/30/2008

Event Number	Wet Weather Event Start Date	Wet Weather Event End Date	Event Duration (hh:mm)	Rainfall			Wet Weather Storage Volume (MG)			Comments
				Average*	Max**		SWPS SG Chamber	Brady Lake and Executive Inn Storage Facility	Total	
				TRFD (in)	TRFD (in)	Rain Gauge				
2008-042	7/4/2008 4:57	7/5/2008 5:57	25:00	0.980	2.600	TR15	10.10		10.10	
2008-045	7/8/2008 7:52	7/9/2008 6:48	22:56	0.213	0.440	TR14	5.20		5.20	
2008-046	7/12/2008 22:37	7/13/2008 20:27	21:50	0.399	0.510	TR13	21.60		21.60	
2008-047	7/20/2008 20:48	7/23/2008 13:00	64:12	0.393	0.920	TR13	7.50		7.50	
2008-048	7/28/2008 8:51	7/28/2008 18:06	9:15	0.346	0.540	TR12	16.30	2.60	18.90	High River Levels
2008-049	7/30/2008 9:01	7/31/2008 15:49	30:48	1.486	1.980	TR13	33.20	7.30	40.50	High River Levels
2008-051	8/14/2008 13:52	8/15/2008 2:59	13:06	0.246	0.760	TR15	11.70		11.70	
2008-054	9/3/2008 8:55	9/4/2008 0:20	15:25	0.147	0.330	TR11	4.35		4.35	
2008-055	9/4/2008 11:35	9/6/2008 0:10	36:35	0.469	0.810	TR05	1.80		1.80	
2008-056	9/9/2008 3:05	9/9/2008 18:00	14:55	0.267	0.550	TR15	1.60		1.60	
2008-058	9/30/2008 0:03	9/30/2008 9:12	9:09	0.344	0.430	TR14	13.15		13.15	
Total				5.290			126.50	9.90	136.40	

*Average Total Rainfall Depth Based on Rain Gauge TR04, TR05, TR11, TR12, TR13, TR14 and TR15

**Maximum Total Rainfall Depth Measurement and its Location during the Wet Weather Event