SANITATION DISTRICT NO. 1

April 30, 2009

Acting Director of the Division of Enforcement
Department for Environmental Protection
300 Fair Oaks Lane
Frankfort, KY 40601

Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
601 D street NW
Washington, DC 20005
DOJ Case No. 90-5-1-1-08591

Chief, Water Program Enforcement Branch
Water Management Division
U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

Re: Consent Decree Case No. 2:05-cv-00199-WOB

Dear Gentlemen:

Pursuant to the above-referenced Consent Decree, Sanitation District No. 1 (SD1) is required to submit quarterly reports that demonstrate SD1's compliance with the Consent Decree:

> **42. Quarterly Reports**. The District shall submit to the Cabinet/EPA a quarterly report that describes the District's progress in complying with this Consent Decree for the previous quarter no later than thirty days after the end of each calendar quarter. The first such report shall be submitted to the Cabinet/EPA no later than thirty days after the second full quarter after entry of this Consent Decree.

Information contained within the enclosed Quarterly Report describes SD1's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of January 1, 2009 through March 31, 2009. This report also contains an outlook for the upcoming calendar quarter period of April 1, 2009 through June 30, 2009.

1045 EATON DRIVE • FT. WRIGHT, KENTUCKY 41017-9681 • PH: (859) 578-7450 • FAX: (859) 331-2436

A certification as required by the Consent Decree is also enclosed (Consent Decree paragraph 38).

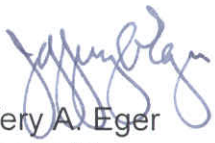
Please note that the following updates were made to the Quarterly Report during this reporting period:

- Appendix C was added to account for SD1's cumulative overflow data beginning January 2008. Subsequent reports will also include annual comparisons of cumulative overflows once additional data is available.
- SD1 revised its sanitary sewer overflow categories to better reflect the nature of the overflow events, which will help in identifying the most appropriate and effective solutions. The two new categories are SSOs Due to Wet Weather Capacity Issues and SSOs Due to Operational Issues. These new categories will replace the Recurring SSOs and Non-recurring SSOs categories, which do not inherently reflect the nature of the overflow events associated with them.

I am confident in the integrity of the enclosed document, and I am certain that its content not only satisfies regulatory requirements, but also helps further the mission and vision of SD1 by demonstrating aggressive, proactive, achievable measures underway in Northern Kentucky to protect water resources and enhance the quality of life.

If you have any questions or concerns, do not hesitate to contact me at 859-578-7465 or by e-mail at jeger@sd1.org.

Best regards,

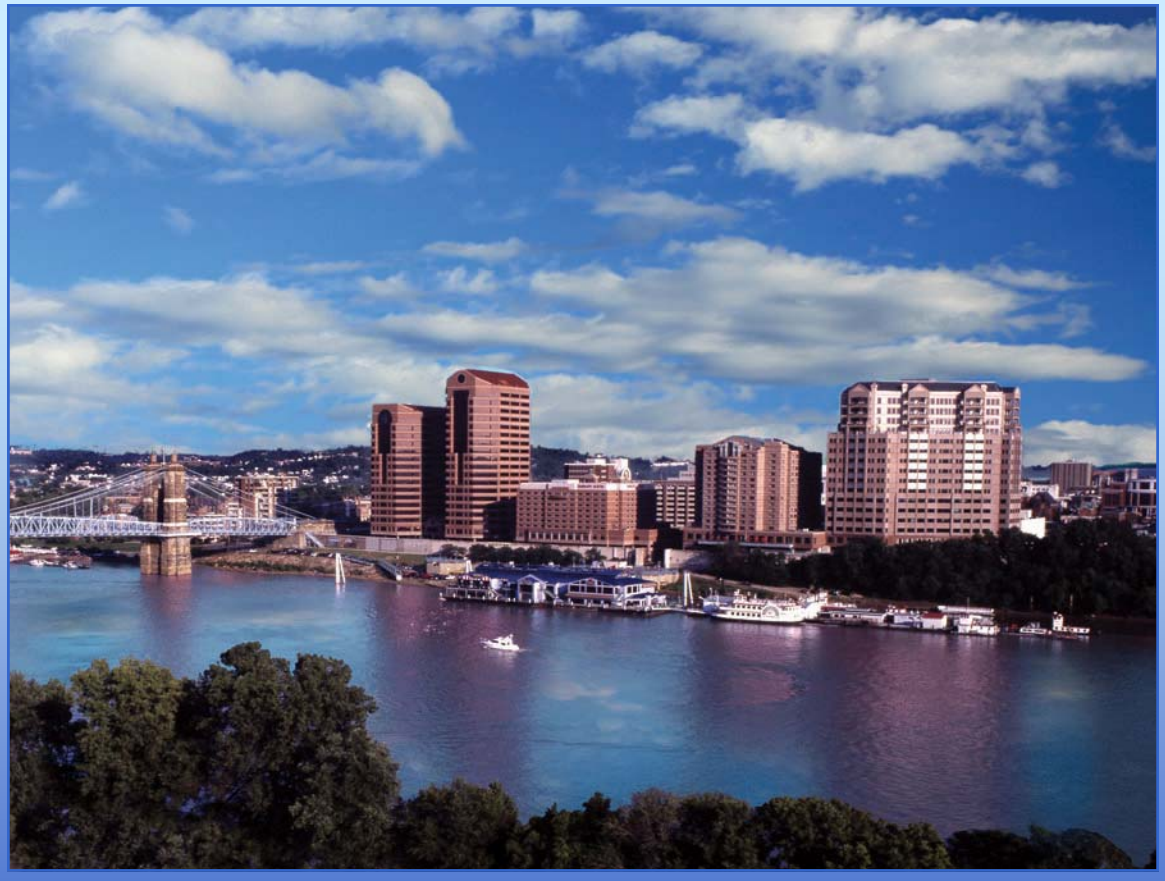


Jeffery A. Eger
General Manager

JAE/jh
Enclosures

Consent Decree Quarterly Report No. 06
(January 1, 2009 through March 31, 2009)

Sanitation District No. 1
April 30, 2009



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SANITATION DISTRICT NO. 1

CERTIFICATION

Consent Decree Quarterly Report No. 06
Consent Decree Case No. 2:05-cv-00199-WOB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.

Jeffery A. Eger
General Manager

4/30/09
Date

COMMONWEALTH OF KENTUCKY
)ss.
COUNTY OF Kenton

The foregoing instrument was acknowledged before me this 30th day of April, 2009 by Jeffery A. Eger, General Manager of Sanitation District. No. 1.

Kathleen A. Jerisch
NOTARY PUBLIC

Kenton County, Kentucky

My commission expires: 9-15-11

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CONSENT DECREE
QUARTERLY REPORT NO. 06

April 30, 2009

Sanitation District No. 1
1045 Eaton Drive
Ft. Wright, KY 41017

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LIST OF ACRONYMS AND ABBREVIATIONS

Cabinet	Kentucky Energy and Environment Cabinet
CSO	Combined Sewer Overflow
EPA	U.S. Environmental Protection Agency
gbaMS	GBA Master Series (information tracking system)
SD1	Sanitation District No. 1
SSO	Sanitary Sewer Overflow

SECTION 1. INTRODUCTION

1.1 Purpose

This Quarterly Report is submitted to fulfill the requirements of Sanitation District No. 1's (SD1) Consent Decree as entered on April 18, 2007. This Consent Decree is a legal agreement with the U.S. Environmental Protection Agency (EPA) and the Kentucky Energy and Environment Cabinet (Cabinet). The purpose of the Consent Decree is to address sanitary sewer overflows (SSOs) in SD1's sanitary sewer system and combined sewer overflows (CSOs) in the combined sewer system in an effort to improve water quality throughout SD1's service area. Specifically, Section V Reporting Requirements, states that:

> **42. Quarterly Reports**. The District shall submit to the Cabinet/EPA a quarterly report that describes the District's progress in complying with this Consent Decree for the previous quarter no later than thirty days after the end of each calendar quarter.

1.2 Report Period

Information contained within this report describes SD1's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of January 1, 2009 through March 31, 2009. This report also contains an outlook for the upcoming calendar quarter period of April 1, 2009 through June 30, 2009.

1.3 Consent Decree Compliance Schedule

A comprehensive Gantt chart outlining SD1's project schedule for meeting the requirements of the Consent Decree can be found in Appendix A. This project schedule includes tasks, responsible parties, and deadlines for the first five years of the Consent Decree (2007 through 2012). Additionally, a more detailed listing of the Initial Watershed Projects that were not complete prior to January 1, 2009, including current status, project updates for the current reporting period, and planned activity for the subsequent quarter can be found in Appendix B.

SECTION 2. OVERFLOW DATA

This section of the Quarterly Report presents SD1's estimates of overflow activity in the collection systems. While SD1 has a long history of comprehensive data collection and inspection programs, our existing programs were implemented to meet pre-Consent Decree needs and must be realigned and optimized to fit into the framework of the quarterly reports. This realignment is taking place as part of SD1's wet-weather management activities, and future reports will continue to incorporate expanded overflow metrics based on more quantitative measures as they become available.

Over the last quarter, we have made further progress with developing standardized reports in SD1's computerized maintenance management system, GBA Master Series (gbaMS), to help support the specific reporting needs for these quarterly reports and to better track system performance. We are continuing to fine-tune and improve our tracking and reporting capabilities to increase efficiency in our work. SD1 has been using gbaMS since 1999 and has added several modules and applications in response to evolving needs over the years. As there are now new uses for this tool after entering into the Consent Decree, SD1 is undergoing adjustments to both the data input and output processes for gbaMS to generate more precise data for use in these quarterly reports. Because the refinement of gbaMS is ongoing to meet these evolving needs, several numbers generated from this software program will be reported as "approximate." As SD1 moves forward with structuring its reporting procedures, quality assurance and quality control issues regarding data input and output from gbaMS will continue to be addressed.

Overflow Categories

For reporting and system performance measurement purposes, SD1 has categorized sewer overflows throughout the service area into five distinct categories:

- *SSOs Due to Wet Weather Capacity Issues* – Recurring and inactive overflows from SD1's sanitary sewer system due to a lack of capacity during wet weather. This category includes wet-weather discharges at pump stations that may or may not have a constructed bypass. Overflows are determined to be "recurring" if they have been observed to overflow twice in a running twelve month period. Overflows are determined to be "inactive" until they occur more than once in a running twelve month period. Inactive overflows are generally under investigation as suspected or predicted hydraulic model overflow points in the collection system.

- *SSOs Due to Operational Issues* – Overflows from SD1's sanitary sewer system, including pump stations that are not a result of wet weather capacity issues. Many of these are one-time, dry-weather occurrences caused by temporary system issues that are investigated and corrected as soon as practicable.

- *Wet Weather CSOs* – Wet-weather discharges from the combined sewer system.

- *Dry Weather CSOs* – Dry-weather discharges from the combined sewer system.

- *Building Backups* – The release of raw sewage from a service lateral into a building in SD1's service area. Building backups can be caused by several factors, such as constrained capacity during wet weather or a blockage or collapse in the service lateral or main line, and can be determined to be either SD1's responsibility or the building owner's responsibility.

Quantitative Estimates

SD1 uses three general methods for developing quantitative estimates of overflow activity:

- Field inspections during, or shortly after, wet-weather events to identify activations. This inspection program has been in place since 2005 and will be expanded as warranted for ongoing reporting and sewer overflow response cleanup. SD1's wet weather crew continues to perform routine inspections before and after rain events at prioritized recurring, inactive and suspected SSO locations to understand and verify overflow activity and the need for sewer overflow response cleanup. This is part of SD1's ongoing effort to characterize and verify overflows throughout the collection systems and ensure they are categorized accurately and cleaned up after rain events. Proper characterization of overflows ensures that the hydraulic model that SD1 utilizes maintains and improves upon its accuracy and will help identify the most appropriate and effective solutions to be included in SD1's Watershed Plans.

- Simple hydraulic estimating using Manning's Gravity Flow and Pipe Calculation to report overflows from pump stations with constructed bypasses, and industry standard volume estimations techniques and calculations are used for spills or for any witnessed overflow from a manhole. The only exception to this calculation methodology is at the Lakeview Pump Station, which has a metered bypass pipe. This method has been used historically for reporting purposes, and its results are included in this Quarterly Report.

- Estimates developed from SD1's system-wide collection system models. SD1 completed a year-long flow monitoring program in 2008, consisting of more than 245 flow meters and 45 rain gauges installed throughout the combined and separate sewer systems, that was utilized to update the calibration and validation of the system-wide hydraulic models. This calibration was undertaken to provide a model network that could confidently be used as a planning level tool in preparing the Watershed Plans for June 2009. In addition to the use of the models for planning future capital improvements, the models are also being used to provide information about the current performance of SD1's system. Based on the results of the model calibration and verification, SD1 has developed a highly calibrated hydraulic model that provides an accurate representation of the sewer system. This tool allows SD1 to have confidence in the results of the overflow volumes from the sewer system and to provide estimates of the overflow locations within the system for quarterly reporting purposes. This approach is consistent with SD1's commitment to provide the best available information on overflow activity within these reports.

For this submittal, SD1 has collected rainfall data from a series of seven rain gauges located across the system and simulated the rainfall that occurred between January 1, 2009 and March 31, 2009 within the hydraulic models. The results of the model

simulations have been summarized and included as an estimate of the frequency and total volume of the overflow locations within SD1's system for this period. For the modeled locations, these results are not a summary of observed or confirmed activations but are an estimate of the overflow statistics based on the calibrated and verified model. The presented statistics should be viewed with the knowledge that the data provided is only estimated and could differ from actual field conditions due not only to the inherent potential error in any model but also specific local conditions (maintenance issues, localized rainfall, etc.). However, we do not anticipate these estimates to be significantly different than field conditions. As noted in earlier quarterly reports, SD1 is actively realigning and optimizing their field activities to support the framework of Consent Decree requirements, and this process includes constantly working to verify the model results against actual field conditions through monitoring and observation. Over time, these field verifications will continue to improve the model as appropriate to better reflect any discrepancies found with observed conditions. It is an ongoing and continual process to refine the modeling tools to provide the most accurate information possible about overflow locations, including future model updates to incorporate system improvements.

Precipitation Data

Rainfall statistics are an important component of overflow reporting, as rainfall conditions represent an uncontrolled variable impacting SD1's wet weather CSO and SSO activity. Quarterly CSO and SSO activations and volumes will constantly vary over time, with or without system improvements, due to natural variations in rainfall patterns. Over time, SD1 expects system improvements to show a clear trend in reduced overflow activity. However, reviewing overflow reports for any individual quarter relative to the previous quarter also requires careful review of the rainfall associated with each quarter, in order to understand the relative impact of rainfall patterns. For this reason, storm event summaries are included in all overflow reporting submittals. The data in Table 2.1 is from the Cincinnati-Northern Kentucky International Airport rain gauge maintained by the National Weather Service (CVG).

Table 2.1 Summary of Storm Events
(January 1, 2009 through March 31, 2009)

Month	Approximate # of Storm Events	Rainfall (in)
January 2009	12	2.96
February 2009	10	2.52
March 2009	12	1.61
Total	**34**	**7.09**

The remainder of this section reports overflows that occurred throughout SD1's service area during the period of January 1, 2009 through March 31, 2009. A cumulative accounting of SD1's overflow activity from January 2008 through the current reporting period can be found in Appendix C.

2.1 SSOs Due to Wet Weather Capacity Issues

As previously described, this category includes recurring and inactive overflows from SD1's sanitary sewer system due to lack of capacity during wet weather. This includes wet-weather discharges at pump stations that may or may not have a constructed bypass. Overflows are determined to be "recurring" if they have been observed to overflow twice in a running twelve month period. Overflows are determined to be "inactive" until they have been observed to overflow more than once in a running twelve month period. Inactive overflows are generally under investigation as suspected or predicted hydraulic model overflow points in the collection system.

Recurring Wet Weather SSOs

Modeled activation and volume statistics for SD1's 98 recurring wet weather SSO locations for the current reporting period can be found in Appendix D. This list was revised subsequent to the January 2009 Quarterly Report based upon the field inspection and hydraulic modeling programs. A detailed transaction database outlining structure numbers and transaction descriptions for the revisions made to the SSO list can be found in Appendix E.

Recurring Pump Station Overflows

In addition to the 98 recurring wet weather SSOs, there are also 14 pump stations identified in the Consent Decree that have historically documented recurring wet weather capacity issues. SD1 submitted a Pump Station Overflow Elimination Plan to the EPA and the Cabinet on September 18, 2007 that provides the plan to identify watershed projects to eliminate overflows at these stations. Table 2.2 lists each of the 14 pump stations identified in Exhibit E of the Consent Decree and demonstrates their wet weather SSO occurrences during the current reporting period.

The 14 pump stations listed in the Consent Decree discharged a total of 13 times during the current reporting period, with an estimated overflow volume of 2,009,000 gallons. As previously mentioned, SD1 uses Manning's Gravity Flow and Pipe Calculation to estimate discharge volume from pump stations. The only exception to this calculation methodology is at the Lakeview Pump Station, which has a metered bypass pipe.

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Table 2.2 Discharges from Consent Decree Pump Stations Due to Lack of Capacity during Wet Weather
(January 1, 2009 – March 31, 2009)

Name of Pump Station	Number of Discharge Occurrences	Total Estimated Volume (gallons)
Alex-Licking	0	0
Allen-Fork	0	0
Crestview	0	0
Harrison Harbor	0	0
Highland Acres	0	0
Kentucky Aire	2	68,000
Lakeview	4	1,716,000
Riley Road	5	188,000
Ripple Creek	1	11,000
South Hampton	1	26,000
South Park	0	0
Sunset	0	0
Taylorsport	0	0
Union	0	0
TOTAL	**13**	**2,009,000**

In addition to tracking the recurring, wet weather SSOs at the pump stations listed in the Consent Decree, SD1 continuously monitors all pump stations throughout the service area for recurring wet weather capacity issues. During the current reporting period, there were three pump stations with documented recurring wet weather capacity issues that discharged. Table 2.3 provides detailed information for these occurrences. As SD1 moves forward with developing the Watershed Plans required under the Consent Decree, priorities will be established based on severity and known wet weather issues will be addressed.

Table 2.3 Discharges from Pump Stations Not Listed in the Consent Decree Due to Lack of Capacity during Wet Weather
(January 1, 2009 through March 31, 2009)

Name of Pump Station	Number of Wet-Weather Related Discharge Occurrences	Total Estimated Volume (gallons)
Highland Heights	2	39,000
Keavy Road	2	34,000
Mafred	1	28,000
TOTAL	**5**	**101,000**

Inactive Wet Weather SSOs

During this current reporting period, there were no additional structures observed overflowing during wet weather due to a lack of capacity, including pump stations and structures in the collection system under investigation as suspected or predicted hydraulic model overflow points.

2.2 SSOs Due to Operational Issues

As previously mentioned, this category of overflows includes discharges from SD1's sanitary sewer system that are not a result of wet weather capacity issues. Many of these are one-time, dry-weather occurrences caused by temporary system issues that are investigated and corrected as soon as practicable.

During the current reporting period, there were a total of 39 SSOs due to operational issues throughout SD1's service area with a total estimated overflow volume of 19,568,000 gallons, of which 78% (15,331,000 gallons) can be attributed to a bypass event at the Lakeview Pump Station caused by a force main break during dry weather. The spill at the location of the force main break was completely contained and pumped back into SD1's system for treatment. However, in order to repair the force main the pump station could only operate with one pump and, at times, had to be shutdown altogether. It was during this modified operation that the pump station bypassed. Once the force main was repaired, the pump station resumed standard operation. SD1 has initiated an assessment of the Lakeview force main as part of our Force Main and Air Release Valve Preventative Maintenance Program to determine its condition and the risk of future breaks. Depending on the results of the evaluation of the force main, SD1 may initiate repairs on the force main to ensure any future breaks do not occur.

The 39 overflows reported in this category can be broken down by the primary causes demonstrated in Figure 2.1.

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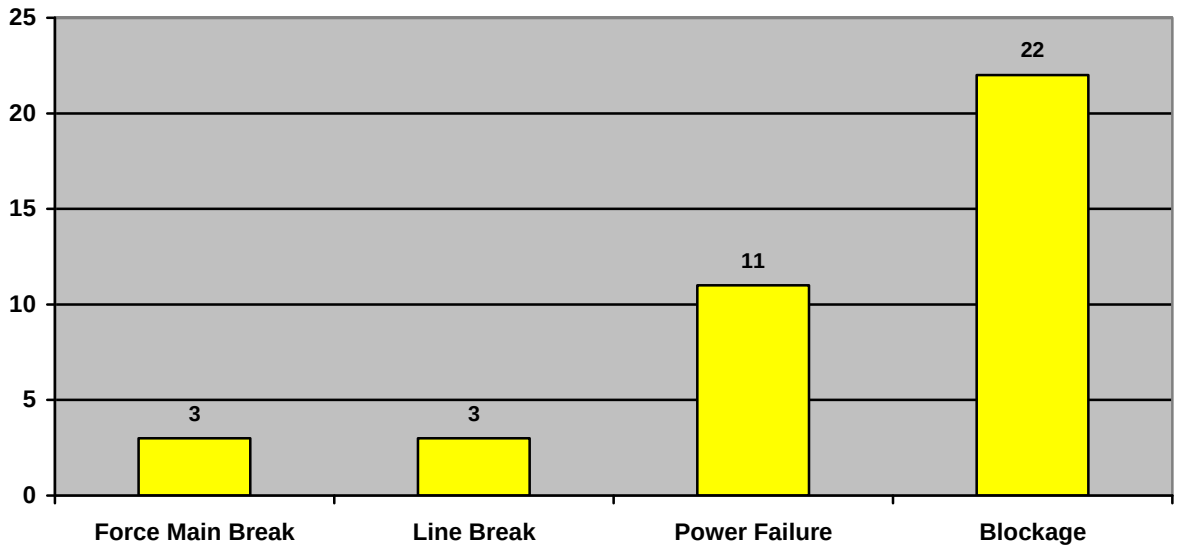
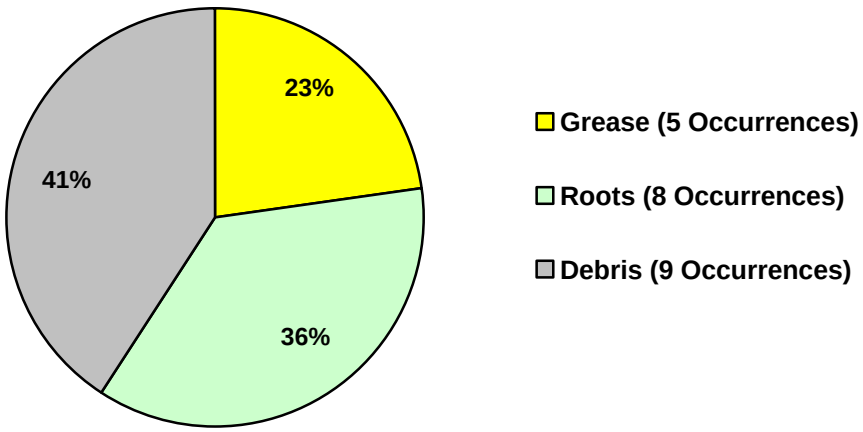
Figure 2.1 Causes of Operational Issues Resulting in SSOs
(January 1, 2009 – March 31, 2009)



The 22 SSOs caused by blockages can further be broken down into 3 secondary causes, as demonstrated in Figure 2.2.

Figure 2.2 Causes for Blockages in Pipes Resulting in SSOs
(January 1, 2009 – March 31, 2009)



All of these SSOs were immediately acted upon and the problems repaired. Where blockages and line breaks were found, the reasons for the blockages and breaks were identified and recorded in gbaMS. If deemed necessary, the sewers were then put on a preventive maintenance list to be inspected and cleaned as-needed in the next six months as part of our Continuous Sewer Assessment Program.

2.3 Wet Weather CSOs

Included in Appendix F are the modeled activation and volume statistics for SD1's 92 CSOs. This data was generated from the hydraulic modeling program previously described in Section 2.1. This list was revised subsequent to the January 2009 Quarterly Report based on SD1's construction activities and characterization efforts. A detailed transaction database outlining structure numbers and transaction descriptions for the revisions made to the CSO list can be found in Appendix G.

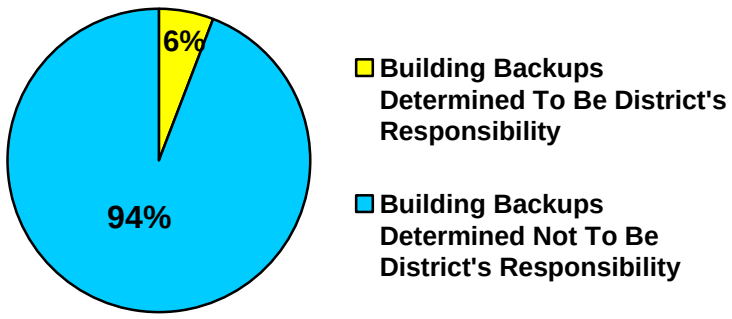
2.4 Dry Weather CSOs

During the current reporting period, there was one CSO during dry weather at the South Eastern Avenue CSO diversion (Structure ID# 0910031), with a total estimated discharge volume of 38,000 gallons. An inspection of the dry weather diversion pipe revealed a blockage of debris. The debris was removed from the line and re-inspected to ensure the blockage was completely cleared. In addition, the catch basins in the drainage area were inspected and are scheduled to be retrofitted or replaced with bells or grated inlets to reduce the amount of solids and floatables entering the system. The structure is on a preventive maintenance list to be inspected and cleaned as-needed in the next six months as part of SD1's Continuous Sewer Assessment Program, which will ensure that the overflow does not reoccur in accordance with the Nine Minimum Control No. 5 plan to reduce and eliminate dry weather CSOs.

2.5 Building Backups

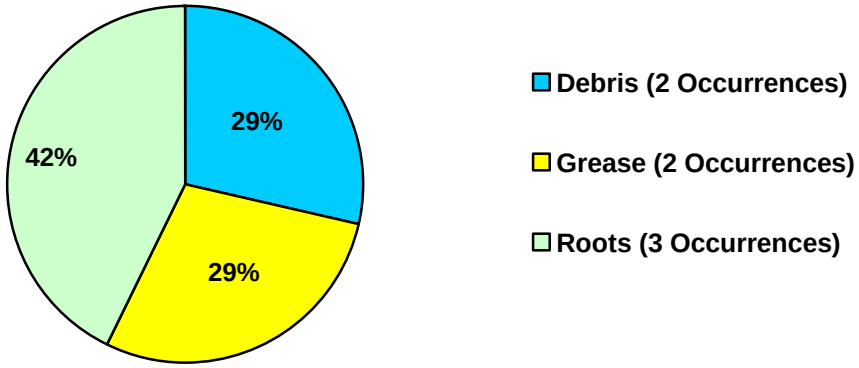
During the current reporting period, there were approximately 122 building backups throughout SD1's service area. Of these 122**,** approximately 7 were determined to be SD1's responsibility and 115 were determined not to be the responsibility of SD1, as shown in Figure 2.3. The backups determined not to be the responsibility of SD1 were due to causes such as breaks and blockages in private service laterals.

Figure 2.3 Building Backups: Public vs. Private
(January 1, 2009 – March 31, 2009)



The causes for the approximate 7 building backups determined to be SD1's responsibility were due to blockages in the main line, which can further be broken down into 3 secondary causes, as demonstrated in Figure 2.4.

Figure 2.4 Causes for Blockages in Main Line Resulting in a Building Backup
(January 1, 2009 – March 31, 2009)



All of these backups were immediately acted upon and the problems repaired. Where blockages and line breaks were found, the reasons for the blockages and breaks were identified and recorded in gbaMS. If deemed necessary, the sewers were then put on a preventive maintenance list to be inspected and cleaned as-needed in the next six months as part of our Continuous Sewer Assessment Program.

APPENDIX A:

Consent Decree Schedule-2007 thru 2012

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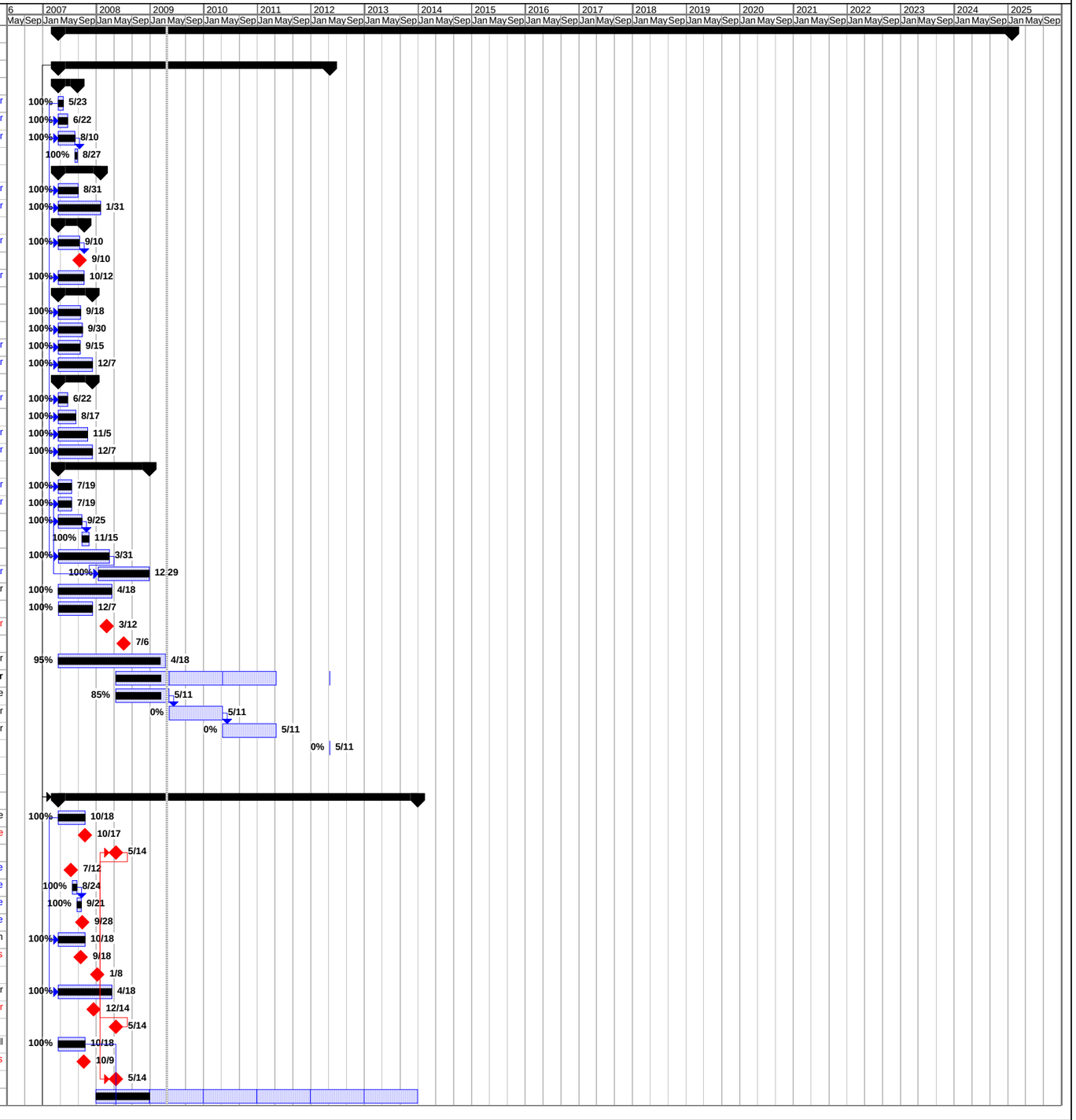
Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party
1	**Consent Decree**	**6498 days?**	**Wed 4/18/07**	**Fri 1/31/25**		
2						
3	**NMC PROGRAM REQUIREMENTS**	**1850.38 days?**	**Wed 4/18/07**	**Fri 5/11/12**		
4	**NMC 1 -- Operation and Maintenance**	**131 days**	**Wed 4/18/07**	**Mon 8/27/07**		
5	O&M Criteria and Weighting Workshop	35 days	Wed 4/18/07	Wed 5/23/07		Novak/Vatter
6	Complete Draft O&M Scoping for entire system	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter
7	Driaft Prioritized O&M Program	114 days	Wed 4/18/07	Fri 8/10/07		Novak/Vatter
8	Revised Program Presented to District	17 days	Fri 8/10/07	Mon 8/27/07		
9	**NMC 2 -- Maximization of Storage**	**288.38 days**	**Wed 4/18/07**	**Thu 1/31/08**		
10	Draft Plan	135 days	Wed 4/18/07	Fri 8/31/07		Novak/Vatter
11	Final Plan	288 days	Wed 4/18/07	Thu 1/31/08		Novak/Vatter
12	**NMC 3 -- Pretreatment**	**177 days**	**Wed 4/18/07**	**Fri 10/12/07**		
13	Draft Plan	145 days	Wed 4/18/07	Mon 9/10/07		Novak/Vatter
14	Recommendations Presented at Meeting	0 days	Mon 9/10/07	Mon 9/10/07		
15	Final Plan	177 days	Wed 4/18/07	Fri 10/12/07		Novak/Vatter
16	**NMC 4 -- Maximize Collection and Treatment**	**233 days**	**Wed 4/18/07**	**Fri 12/7/07**		
17	Interceptor Inspection	153 days	Wed 4/18/07	Tue 9/18/07		
18	Dry Creek Analysis	165 days	Wed 4/18/07	Sun 9/30/07		
19	Draft Plan	150 days	Wed 4/18/07	Sat 9/15/07		Novak/Vatter
20	Final Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter
21	**NMC 5 -- Prevent Dry Weather Overflows**	**233 days**	**Wed 4/18/07**	**Fri 12/7/07**		
22	Develop regulator solutions	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter
23	Dry Weather Overflow Assessment and Recommendations	121 days	Wed 4/18/07	Fri 8/17/07		
24	Draft River Water Intrusion Feasibility Plan	201 days	Wed 4/18/07	Mon 11/5/07		Novak/Vatter
25	Final River Water Intrusion Feasibility Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter
26	**NMC 6 -- Solids and Floatable Control**	**621 days**	**Wed 4/18/07**	**Mon 12/29/08**		
27	Draft plan with typical sketches	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter
28	Identify locations for pilot floatables control	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter
29	Complete Installation Details (Awaiting Modeling to Confirm Sizing)	160 days	Wed 4/18/07	Tue 9/25/07		
30	Complete Fabrication & Installation	50 days	Wed 9/26/07	Thu 11/15/07		
31	Complete Pilot Field Study (Dependent on rain events captured)	348 days	Wed 4/18/07	Mon 3/31/08		
32	Final prioritized plan	348 days	Wed 1/16/08	Mon 12/29/08		Novak/Vatter
33	Submit NMC Documentation of Compliance	366 days	Wed 4/18/07	Fri 4/18/08	35	Novak/Vatter
34	Draft report to SD1	233 days	Wed 4/18/07	Fri 12/7/07		
35	Actual Submittal Date	0 days	Wed 3/12/08	Wed 3/12/08		Novak/Vatter
36	APPROVAL DATE	0 days	Sun 7/6/08	Sun 7/6/08		
37	Submit NMC Documentation of Full Compliance	731 days	Wed 4/18/07	Sat 4/18/09	35	Novak/Vatter
38	**Submit NMC Annual Report**	**1460 days?**	**Mon 5/12/08**	**Fri 5/11/12**	**35**	**Novak/Vatter**
39	Submit NMC Annual Report 1	364 days	Mon 5/12/08	Mon 5/11/09	35	Hunt/M. Frye
40	Submit NMC Annual Report 2	364 days	Tue 5/12/09	Tue 5/11/10	35	Novak/Vatter
41	Submit NMC Annual Report 3	365 days	Tue 5/11/10	Wed 5/11/11	35	Novak/Vatter
42	Submit NMC Annual Report 4	1 day?	Thu 5/10/12	Fri 5/11/12		
43						
44						
45	**CMOM PROGRAM REQUIREMENTS**	**2449 days**	**Wed 4/18/07**	**Tue 12/31/13**		
46	Submit CMOM Program Self-Assessment	183 days	Wed 4/18/07	Thu 10/18/07	36	Hunt/M. Frye
47	Actual Submittal Date	0 days	Wed 10/17/07	Wed 10/17/07		Hunt/M. Frye
48	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08		
49	Regroup Meeting	0 days	Thu 7/12/07	Thu 7/12/07		Kendall/Mulshine
50	CMOM Workshops	32 days	Mon 7/23/07	Fri 8/24/07		Kendall/Mulshine
51	Report submitted for internal review	28 days	Fri 8/24/07	Fri 9/21/07		Kendall/Mulshine
52	Report submitted to key people for final review	0 days	Fri 9/28/07	Fri 9/28/07		Kendall/Mulshine
53	Submit Grease Control Program (FOG)	183 days	Wed 4/18/07	Thu 10/18/07	36(a)	Clark/Martin
54	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07	36(a)	Casey/Waters
55	APPROVAL DATE	0 days	Tue 1/8/08	Tue 1/8/08		
56	Submit Pump Station Backup Power Plan	366 days	Wed 4/18/07	Fri 4/18/08	36(b)	Novak/Vatter
57	Actual Submittal Date	0 days	Fri 12/14/07	Fri 12/14/07	36(b)	Novak/Vatter
58	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08		
59	Submit Sewer Overflow Response Plan (SORP)	183 days	Wed 4/18/07	Thu 10/18/07	36(c)	Kendall
60	Actual Submittal Date	0 days	Tue 10/9/07	Tue 10/9/07	36(c)	Casey/Waters
61	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08		
62	**Submit CMOM Annual Report**	**2449 days**	**Wed 4/18/07**	**Tue 12/31/13**		

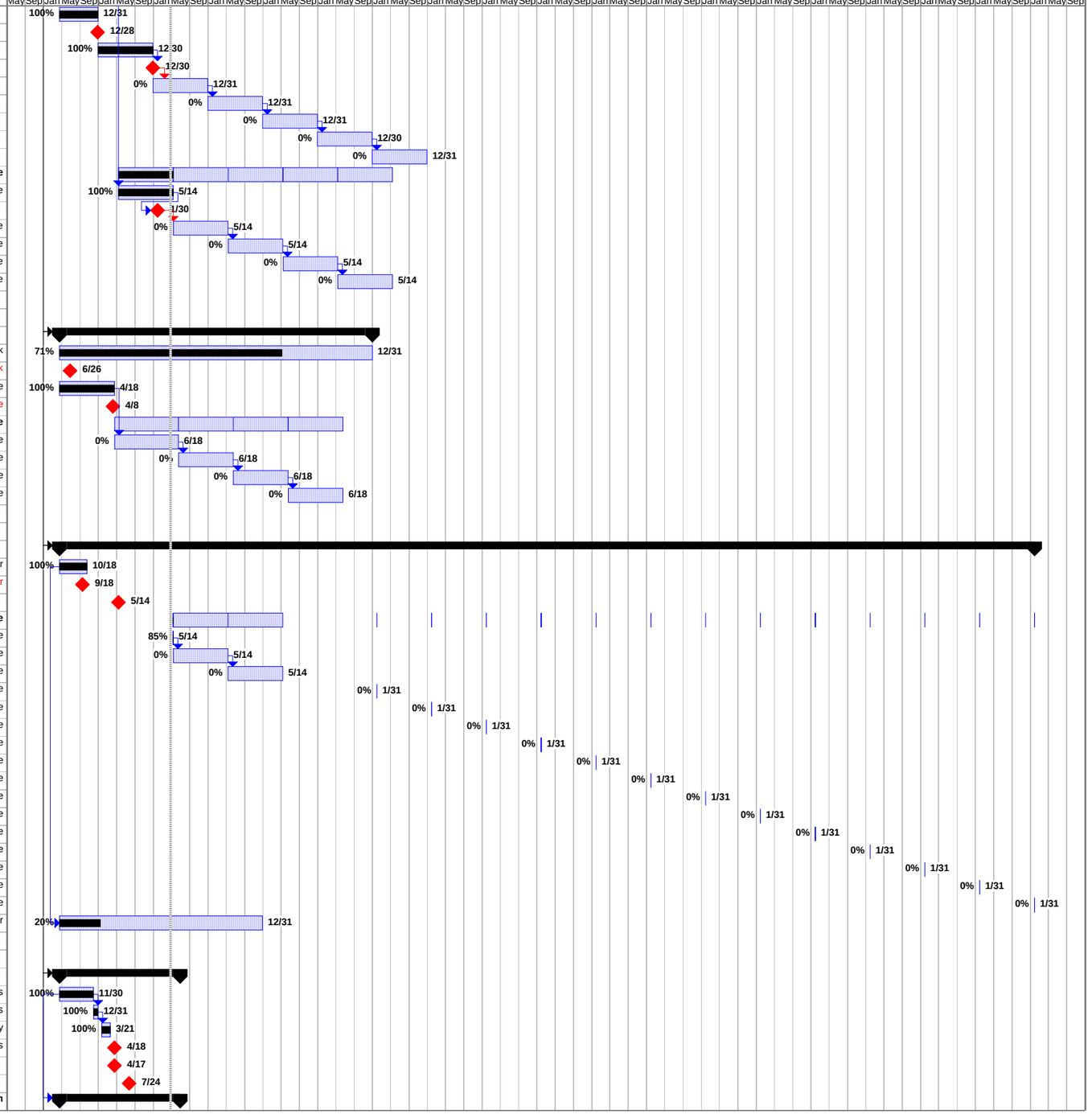


Project: CD Project First Five Years-Au
Date: Wed 4/22/09

Task | Milestone | Rolled Up Task | Rolled Up Progress | External Tasks | Group By Summary
Progress | Summary | Rolled Up Milestone | Split | Project Summary | Deadline

Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party
63	Submit CMOM Annual Report 1	257 days	Wed 4/18/07	Mon 12/31/07		
64	Actual Submittal Date	0 days	Fri 12/28/07	Fri 12/28/07		
65	Submit CMOM Annual Report 2	365 days	Mon 12/31/07	Tue 12/30/08		
66	Actual Submittal Date	0 days	Tue 12/30/08	Tue 12/30/08		
67	Submit CMOM Annual Report 3	365 days	Wed 12/31/08	Thu 12/31/09		
68	Submit CMOM Annual Report 4	365 days	Thu 12/31/09	Fri 12/31/10		
69	Submit CMOM Annual Report 5	365 days	Fri 12/31/10	Sat 12/31/11		
70	Submit CMOM Annual Report 6	365 days	Sat 12/31/11	Sun 12/30/12		
71	Submit CMOM Annual Report 7	365 days	Mon 12/31/12	Tue 12/31/13		
72	**Complete SORP Annual Review**	**1826 days**	**Wed 5/14/08**	**Tue 5/14/13**	**36(c)**	**Kendall/Mulshine**
73	Complete SORP Annual Review 2	365 days	Wed 5/14/08	Thu 5/14/09	36(c)	Kendall/Mulshine
74	Actual Submittal Date	0 days	Fri 1/30/09	Fri 1/30/09		
75	Complete SORP Annual Review 3	364 days	Fri 5/15/09	Fri 5/14/10	36(c)	Kendall/Mulshine
76	Complete SORP Annual Review 4	364 days	Sat 5/15/10	Sat 5/14/11	36(c)	Kendall/Mulshine
77	Complete SORP Annual Review 5	364 days	Mon 5/16/11	Mon 5/14/12	36(c)	Kendall/Mulshine
78	Complete SORP Annual Review 6	365 days	Mon 5/14/12	Tue 5/14/13	36(c)	Kendall/Mulshine
79						
80						
81	**INITIAL WATERSHED PROJECT LIST**	**2084.38 days**	**Wed 4/18/07**	**Mon 12/31/12**		
82	Complete Initial Watershed Projects (51 Total) (Actual Deadline 2014)	2084 days	Wed 4/18/07	Mon 12/31/12	37	Novak
83	34 Projects Complete, 9 Under Construction (8 Associated with WRWWTP)	0 days	Tue 6/26/07	Tue 6/26/07	37	Novak
84	Submit First Initial Watershed Projects Annual Report	366 days	Wed 4/18/07	Fri 4/18/08	37	Hunt/M. Frye
85	Actual Submittal Date	0 days	Tue 4/8/08	Tue 4/8/08		Hunt/M. Frye
86	**Submit Initial Watershed Projects Annual Report**	**1521.38 days**	**Sat 4/19/08**	**Mon 6/18/12**	**37**	**Hunt/M. Frye**
87	Submit Initial Watershed Projects Annual Report 2	425 days	Sat 4/19/08	Thu 6/18/09	37	Hunt/M. Frye
88	Submit Initial Watershed Projects Annual Report 3	365 days	Thu 6/18/09	Fri 6/18/10	37	Hunt/M. Frye
89	Submit Initial Watershed Projects Annual Repor t4	365 days	Fri 6/18/10	Sat 6/18/11	37	Hunt/M. Frye
90	Submit Initial Watershed Projects Annual Repor t5	365 days	Sun 6/19/11	Mon 6/18/12	37	Hunt/M. Frye
91						
92						
93	**PUMP STATION PLAN**	**6498 days?**	**Wed 4/18/07**	**Fri 1/31/25**		
94	Submit Pump Station Plan (PSP)	183 days	Wed 4/18/07	Thu 10/18/07	38	Novak/Vatter
95	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07		Novak/Vatter
96	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08		
97	**Submit Pump Station Overlow Elimination Plan Annual Report**	**5741.63 days?**	**Wed 5/13/09**	**Fri 1/31/25**	**38**	**Hunt/M. Frye**
98	Submit Pump Station Overlow Elimination Plan Annual Report 1	1 day?	Wed 5/13/09	Thu 5/14/09	38	Hunt/M. Frye
99	Submit Pump Station Overlow Elimination Plan Annual Report 2	365 days	Thu 5/14/09	Fri 5/14/10	38	Hunt/M. Frye
100	Submit Pump Station Overlow Elimination Plan Annual Report 3	365 days	Fri 5/14/10	Sat 5/14/11	38	Hunt/M. Frye
101	Submit Pump Station Overlow Elimination Plan Annual Report 4	1 day?	Wed 1/30/13	Thu 1/31/13		Hunt/M. Frye
102	Submit Pump Station Overlow Elimination Plan Annual Report 5	1 day?	Thu 1/30/14	Fri 1/31/14		Hunt/M. Frye
103	Submit Pump Station Overlow Elimination Plan Annual Report 6	1 day?	Fri 1/30/15	Sat 1/31/15		Hunt/M. Frye
104	Submit Pump Station Overlow Elimination Plan Annual Report 7	1 day?	Sat 1/30/16	Sun 1/31/16		Hunt/M. Frye
105	Submit Pump Station Overlow Elimination Plan Annual Report 8	1 day?	Mon 1/30/17	Tue 1/31/17		Hunt/M. Frye
106	Submit Pump Station Overlow Elimination Plan Annual Report 9	1 day?	Tue 1/30/18	Wed 1/31/18		Hunt/M. Frye
107	Submit Pump Station Overlow Elimination Plan Annual Report 10	1 day?	Wed 1/30/19	Thu 1/31/19		Hunt/M. Frye
108	Submit Pump Station Overlow Elimination Plan Annual Report 11	1 day?	Thu 1/30/20	Fri 1/31/20		Hunt/M. Frye
109	Submit Pump Station Overlow Elimination Plan Annual Report 12	1 day?	Sat 1/30/21	Sun 1/31/21		Hunt/M. Frye
110	Submit Pump Station Overlow Elimination Plan Annual Report 13	1 day?	Sun 1/30/22	Mon 1/31/22		Hunt/M. Frye
111	Submit Pump Station Overlow Elimination Plan Annual Report 14	1 day?	Mon 1/30/23	Tue 1/31/23		Hunt/M. Frye
112	Submit Pump Station Overlow Elimination Plan Annual Report 15	1 day?	Tue 1/30/24	Wed 1/31/24		Hunt/M. Frye
113	Submit Pump Station Overlow Elimination Plan Annual Report 16	1 day?	Thu 1/30/25	Fri 1/31/25		Hunt/M. Frye
114	Complete Remedial Measures at 8 Pump Stations	1353 days	Wed 4/18/07	Fri 12/31/10	38	Novak/Vatter
115						
116						
117	**WATERSHED PLANNING (1st of 4 Plans)**	**804 days**	**Wed 4/18/07**	**Tue 6/30/09**		
118	Develop Watershed Framework	226 days	Wed 4/18/07	Fri 11/30/07	39(a)	Gibson/Clements
119	Complete Internal Review of Draft Framework	30 days	Sat 12/1/07	Mon 12/31/07	39(a)	Gibson/Clements
120	Obtain Public Input on Framework for Watershed Plans	58 days	Wed 1/23/08	Fri 3/21/08	40	Casey
121	Submit Framework for Watershed Plans	0 days	Fri 4/18/08	Fri 4/18/08	39(a)	Gibson/Clements
122	Actual Submittal Date	0 days	Thu 4/17/08	Thu 4/17/08		
123	APPROVAL DATE	0 days	Thu 7/24/08	Thu 7/24/08		
124	**First Round of Watershed Plans**	**804 days**	**Wed 4/18/07**	**Tue 6/30/09**	**39(b)**	**Gibson**

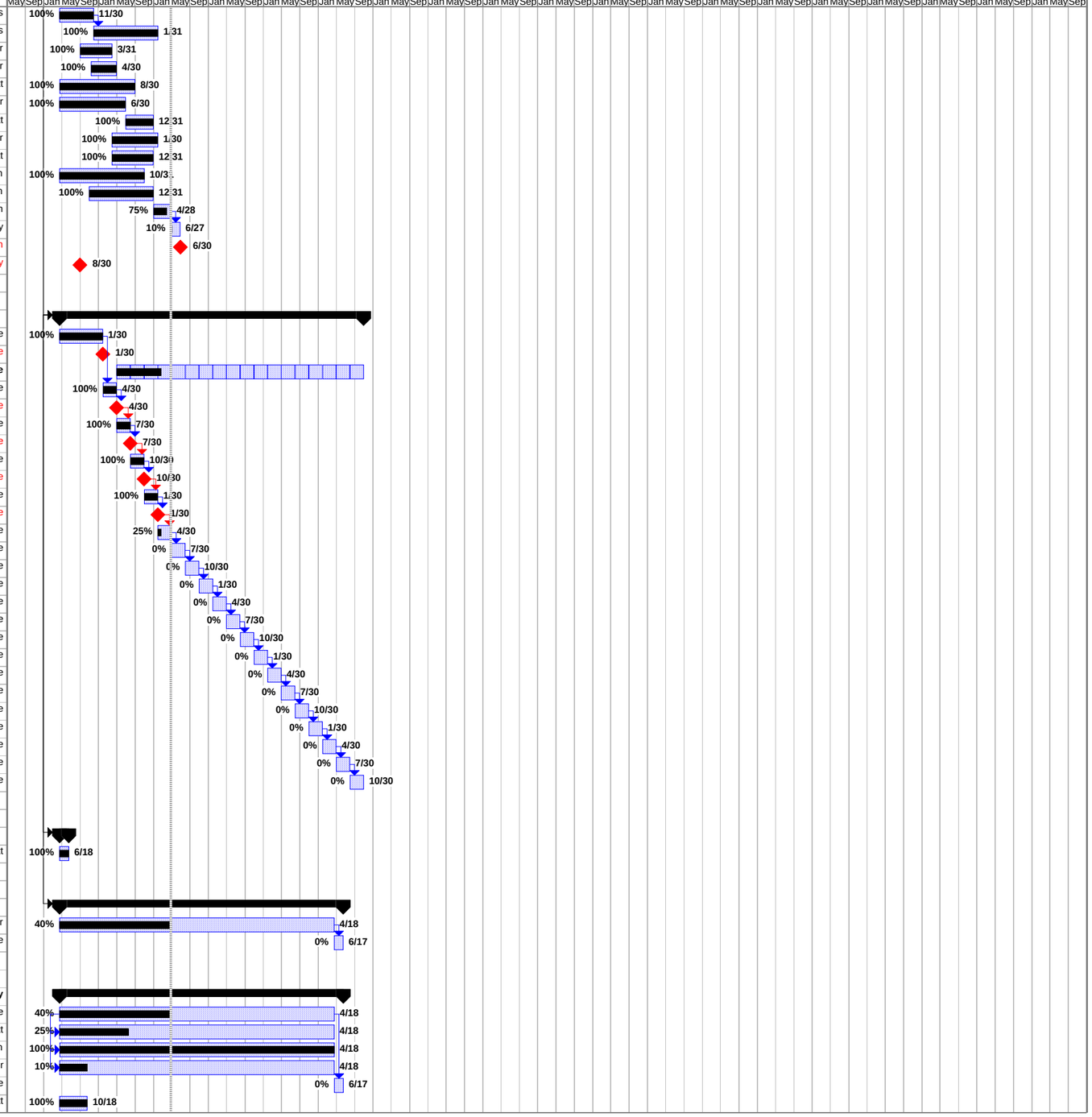


Project: CD Project First Five Years-Au
Date: Wed 4/22/09

Task | Milestone | Rolled Up Task | Rolled Up Progress | External Tasks | Group By Summary
Progress | Summary | Rolled Up Milestone | Split | Project Summary | Deadline

Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party
125	Draft 16 Watershed Characterization Reports	226 days	Wed 4/18/07	Fri 11/30/07		Clements
126	Complete 16 Watershed Characterization Reports	427 days	Sat 12/1/07	Sat 1/31/09		Clements
127	Develop Alternatives Analysis Approach	212 days	Sat 9/1/07	Mon 3/31/08		Vatter/Turner
128	Conduct Banklick Pilot Project	169 days	Tue 11/13/07	Wed 4/30/08		Vatter/Turner
129	Refine Interim Water Quality Models	500 days	Wed 4/18/07	Sat 8/30/08		Scott
130	Develop Infrastructure Models	439 days	Wed 4/18/07	Mon 6/30/08		Vatter
131	Confirm Water Quality Models	183 days	Tue 7/1/08	Wed 12/31/08		Scott
132	Conduct Alternatives Analysis	304 days	Tue 4/1/08	Fri 1/30/09		Vatter/Turner
133	Conduct Financial Affordability Analysis	274 days	Tue 4/1/08	Wed 12/31/08	39(a)	Turner/Schmitt
134	Conduct Water Quality Assessments (Stream Monitoring)	562.38 days	Wed 4/18/07	Fri 10/31/08		Scott/Wooten
135	Develop Stream Condition Index	426 days	Thu 11/1/07	Wed 12/31/08		Wooten
136	Complete Draft Watershed Plans	116 days	Fri 1/2/09	Tue 4/28/09	39(b)	Gibson
137	Obtain Public Input on First Round of Watershed Plans	60 days	Tue 4/28/09	Sat 6/27/09	40	Casey
138	Submit First Round of Watershed Plans	0 days	Tue 6/30/09	Tue 6/30/09	39(b)	Gibson
139	Watershed Summit -- Meets Public Input Requirement for Watershed Plan Process	0 days	Thu 8/30/07	Thu 8/30/07	40	Casey
140						
141						
142	**REPORTING**	**2022.38 days**	**Wed 4/18/07**	**Tue 10/30/12**		
143	Submit Quarterly Report 1	287 days	Wed 4/18/07	Wed 1/30/08		Hunt/M. Frye
144	Actual Submittal Date	0 days	Wed 1/30/08	Wed 1/30/08		Hunt/M. Frye
145	**Quarterly Reports**	**1734 days**	**Thu 1/31/08**	**Tue 10/30/12**	**42**	**Hunt/M. Frye**
146	Submit Quarterly Report 2	90 days	Thu 1/31/08	Wed 4/30/08		Hunt/M. Frye
147	Actual Submittal Date	0 days	Wed 4/30/08	Wed 4/30/08		Hunt/M. Frye
148	Submit Quarterly Report 3	3 mons	Thu 5/1/08	Wed 7/30/08	42	Hunt/M. Frye
149	Actual Submittal Date	0 days	Wed 7/30/08	Wed 7/30/08		Hunt/M. Frye
150	Submit Quarterly Report 4	3 mons	Fri 8/1/08	Thu 10/30/08	42	Hunt/M. Frye
151	Actual Submittal Date	0 days	Thu 10/30/08	Thu 10/30/08		Hunt/M. Frye
152	Submit Quarterly Report 5	3 mons	Sat 11/1/08	Fri 1/30/09	42	Hunt/M. Frye
153	Actual Submittal Date	0 days	Fri 1/30/09	Fri 1/30/09		Hunt/M. Frye
154	Submit Quarterly Report 6	3 mons	Fri 1/30/09	Thu 4/30/09	42	Hunt/M. Frye
155	Submit Quarterly Report 7	3 mons	Fri 5/1/09	Thu 7/30/09	42	Hunt/M. Frye
156	Submit Quarterly Report 8	3 mons	Sat 8/1/09	Fri 10/30/09	42	Hunt/M. Frye
157	Submit Quarterly Report 9	3 mons	Sun 11/1/09	Sat 1/30/10	42	Hunt/M. Frye
158	Submit Quarterly Report 10	3 mons	Sat 1/30/10	Fri 4/30/10	42	Hunt/M. Frye
159	Submit Quarterly Report 11	3 mons	Sat 5/1/10	Fri 7/30/10	42	Hunt/M. Frye
160	Submit Quarterly Report 12	3 mons	Sun 8/1/10	Sat 10/30/10	42	Hunt/M. Frye
161	Submit Quarterly Report 13	3 mons	Mon 11/1/10	Sun 1/30/11	42	Hunt/M. Frye
162	Submit Quarterly Report 14	3 mons	Sun 1/30/11	Sat 4/30/11	42	Hunt/M. Frye
163	Submit Quarterly Report 15	3 mons	Sun 5/1/11	Sat 7/30/11	42	Hunt/M. Frye
164	Submit Quarterly Report 16	3 mons	Mon 8/1/11	Sun 10/30/11	42	Hunt/M. Frye
165	Submit Quarterly Report 17	3 mons	Tue 11/1/11	Mon 1/30/12	42	Hunt/M. Frye
166	Submit Quarterly Report 18	3 mons	Tue 1/31/12	Mon 4/30/12	42	Hunt/M. Frye
167	Submit Quarterly Report 19	3 mons	Tue 5/1/12	Mon 7/30/12	42	Hunt/M. Frye
168	Submit Quarterly Report 20	3 mons	Wed 8/1/12	Tue 10/30/12	42	Hunt/M. Frye
169						
170						
171	**CIVIL PENALTY**	**61 days**	**Wed 4/18/07**	**Mon 6/18/07**		
172	Pay Civil Penalties to EPPC and US EPA	61 days	Wed 4/18/07	Mon 6/18/07	46	Schmitt
173						
174						
175	**SUPPLEMENTAL PROJECTS**	**1887 days**	**Wed 4/18/07**	**Sun 6/17/12**		
176	Supplemental Env. Projects	1827 days	Wed 4/18/07	Wed 4/18/12	47	Turner
177	SEP Completion Reports	60 days	Wed 4/18/12	Sun 6/17/12	48	Hunt/M. Frye
178						
179						
180	**STATE ENVIRONMENTAL PROJECTS**	**1887.38 days**	**Wed 4/18/07**	**Sun 6/17/12**	**49**	**Gibson/Casey**
181	Conservancies	1827 days	Wed 4/18/07	Wed 4/18/12	49	C. Frye
182	Licking River Watershed Watch	1827 days	Wed 4/18/07	Wed 4/18/12	49	Scott
183	Split Rock	1827 days	Wed 4/18/07	Wed 4/18/12	49	Wooten
184	Education Programs	1827 days	Wed 4/18/07	Wed 4/18/12	49	Casey/Eggemeyer
185	State Environmental Project Completion Report	60 days	Wed 4/18/12	Sun 6/17/12	50	Hunt/M. Frye
186	Set up 6 Separate Escrow Accounts	183 days	Wed 4/18/07	Thu 10/18/07	Exhibit H	Schmitt



Project: CD Project First Five Years-Au
Date: Wed 4/22/09

Task | Milestone | Rolled Up Task | Rolled Up Progress | External Tasks | Group By Summary
Progress | Summary | Rolled Up Milestone | Split | Project Summary | Deadline

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APPENDIX B:

Initial Watershed Projects

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Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Past Activity on Project from 1/1/2009 to 3/31/2009	Planned Activity for 4/1/2009 to 6/30/2009
East Watershed Projects				
C-075-00	Eastern Regional - Contract 3--Riley Force Main and Gravity Sewer to the ERWWTP	Darleen McGuire	Completed remaining restoration items.	Complete remaining four tie-ins.
C-077-01	Eastern Regional - Contract 5--Sunset Force Main and Gravity Sewer	Jim Turner	Continued coordination discussions with the land developer.	The design of the Sunset Pump Station, its gravity sewer and force main is underway. Due to the downturn in the economy, the construction schedule is still being discussed with the land developer.
C-079-00	Eastern Regional - Contract 7--Riley Road #2 Pump Station	Brandon Vatter	Completed construction and began pump testing. Testing revealed a vibration issue.	Trouble shooting cause of vibration to determine corrective action. The station is anticipated to be in service by the summer of 2009.
C-080-00	Eastern Regional - Contract 8--Alex-Licking and Sunset Pump Stations	Jim Turner	Continued coordination discussions with land developer for Sunset Pump Station.	The design of the Sunset Pump Station, its gravity sewer and force main is underway. Due to the downturn in the economy, the construction schedule is still being discussed with the land developer.
West Watershed Projects				
C-001-00	Western Regional Conveyance System to Western Regional WWTP	Brandon Vatter	A contract was awarded in January. Final contract documents were executed and a pre-construction meeting was held.	Complete remaining papaerwork and purchase orders. Begin onsite construction.
C-002-00	Western Regional - Sunnybrook Sewer	Brandon Vatter	Continue construction	Continue Construction.
C-003-00	Western Regional - Frogtown Interceptor Sewer (from Sunnybrook Dr. to Frogtown Rd.)	Brandon Vatter	Continue design.	Continue design.
C-004-00	Western Regional - South Fork Gunpowder Interceptor Sewer and Rosetta Sewer	Brandon Vatter	Continue design.	Continue design.
C-005-00	Western Regional - Narrows Road Diversion Pump Station	Brandon Vatter	Continue design.	Continue design.
C-038-00	Western Regional - Gunpowder Interceptor Sewer	Bob Wilson	Continue installation of 72-inch gravity sewer and manholes.	Continue installation of 72-inch gravity sewer and manholes.
C-039-00	Western Regional - Richwood Sewer and Force Main	Brandon Vatter	Continue design.	Continue design.
C-063-00	Western Regional - Turkeyfoot Industrial Road Force Main	Bob Wilson	Completed construction of Phase 2. Continued design of Phase 3.	Continue design of Phase 3.
C-424-00	Western Regional Wastewater Treatment Plant	Chris Novak	Executed final contract documents and held pre-construction meeting. Began site work.	Continue site work and begin construction.

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APPENDIX C:

Cumulative Overflow Data

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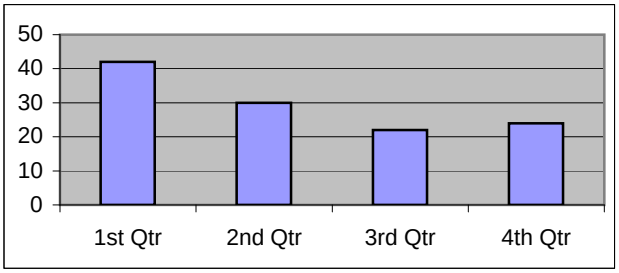
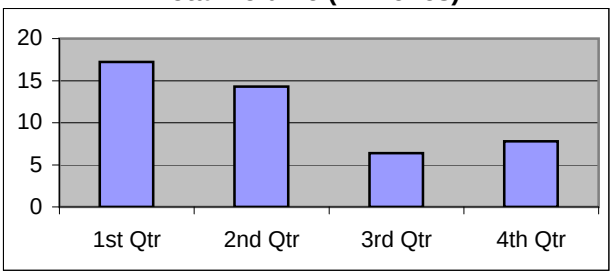
Cumulative Overflow Data
January 1, 2008 through December 31, 2008

Rainfall

Total Occurrences

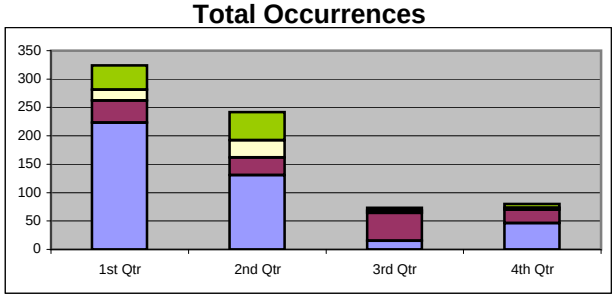


Total Volume (In Inches)

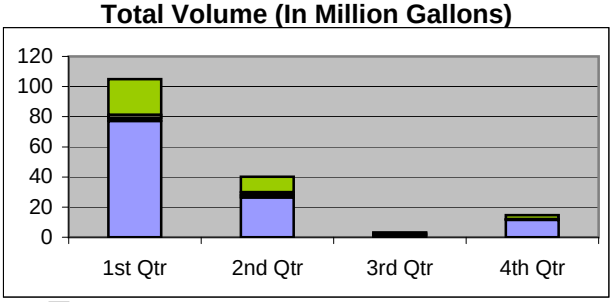


SSOs - Due to Wet Weather (WW) and Operational Issues

Total Occurrences



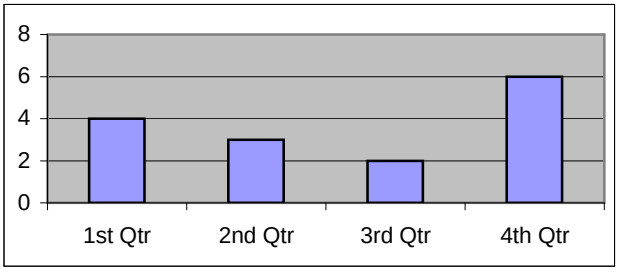
Total Volume (In Million Gallons)



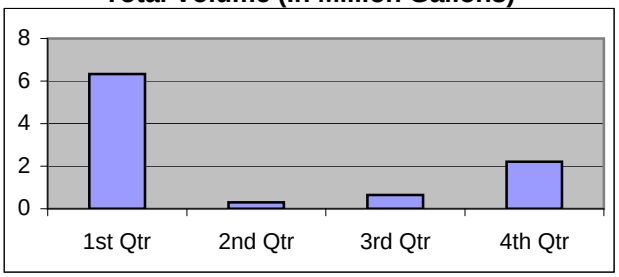
Recurring WW CD Pump Station Overflows
Recurring WW Other Pump Station Overflows
SSOs Due to Operational Issues
Recurring WW SSOs

Dry Weather CSOs

Total Occurrences

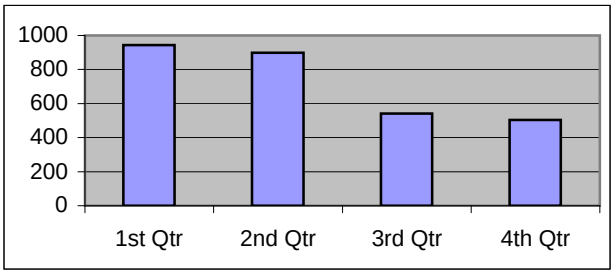


Total Volume (In Million Gallons)

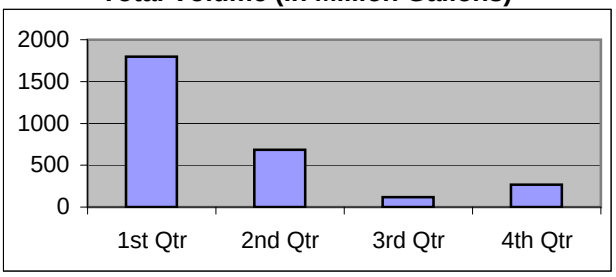


Wet Weather CSOs

Total Occurrences

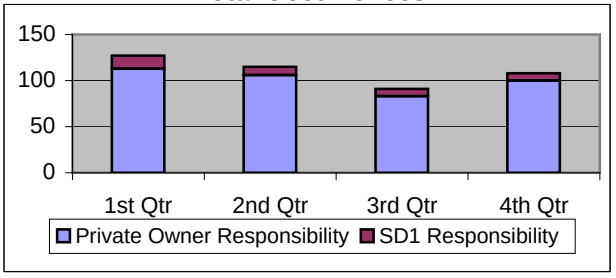


Total Volume (In Million Gallons)



Building Backups

Total Occurrences



2008 Overflow Summary

	Occurrences	Volume	
Rainfall	118	45.66	inches
SSOs	719	162.981	MG
Dry Weather CSOs	15	9.488	MG
Wet Weather CSOs	2888	2868.075	MG
Building Backups (Private)		402	
Building Backups (SD1)		39	

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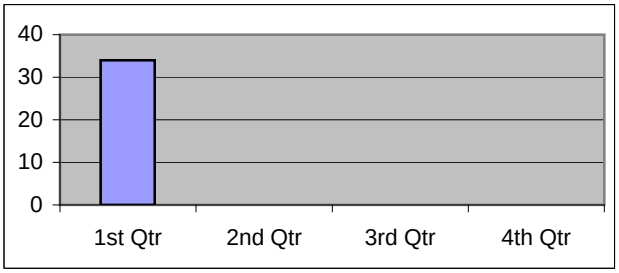
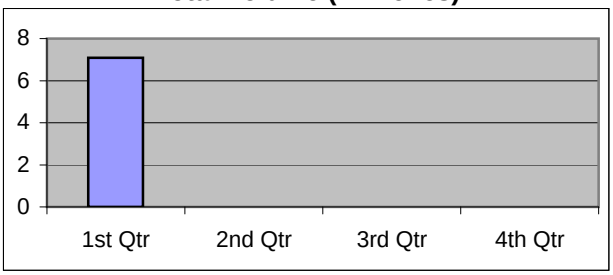
Cumulative Overflow Data
January 1, 2009 through December 31, 2009

Rainfall

Total Occurrences

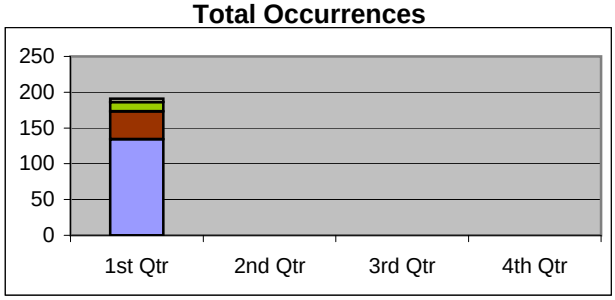


Total Volume (In Inches)

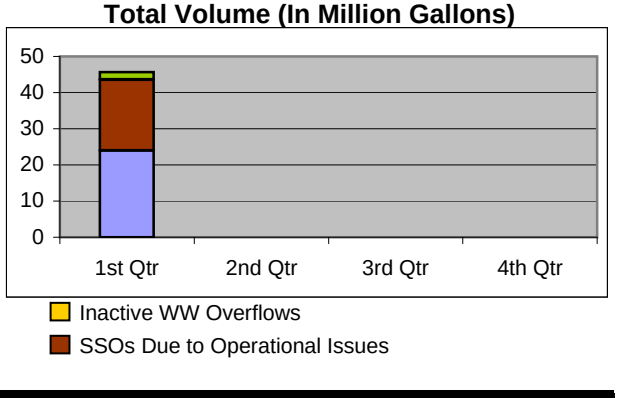


SSOs - Due to Wet Weather (WW) and Operational Issues

Total Occurrences

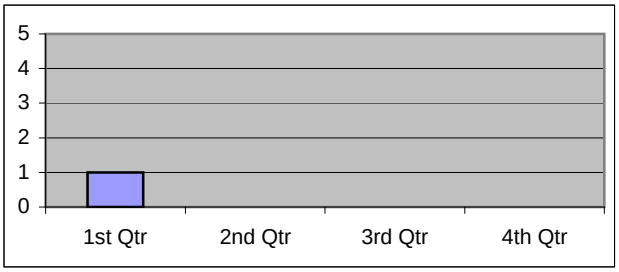


Total Volume (In Million Gallons)

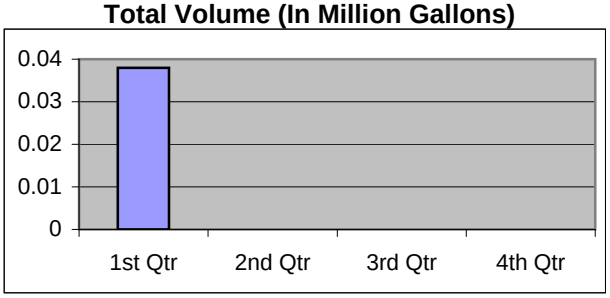


Dry Weather CSOs

Total Occurrences

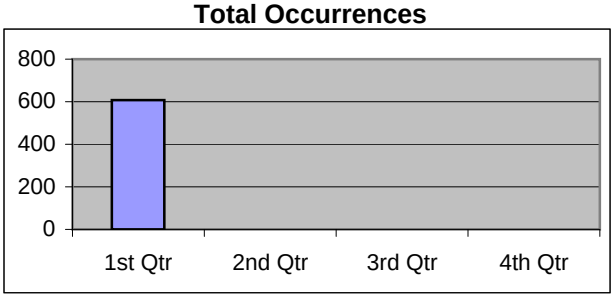


Total Volume (In Million Gallons)

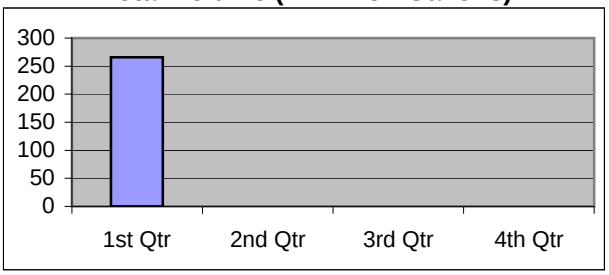


Wet Weather CSOs

Total Occurrences

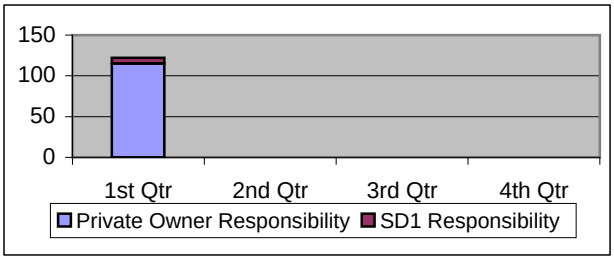


Total Volume (In Million Gallons)



Building Backups

Total Occurrences



2009 Overflow Summary			
	Occurrences	**Volume**	
Rainfall	34	7.09	inches
SSOs	191	45.641	MG
Dry Weather CSOs	1	0.038	MG
Wet Weather CSOs	607	265.582	MG
Building Backups (Private)		115	
Building Backups (SD1)		7	

As of March 31, 2009

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APPENDIX D:

Recurring Wet Weather SSOs

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Recurring Wet Weather SSOs					
No.	MHID	City	County	Predicted Overflow Activations	Model Predicted Overflow Volume (MG)
1	0020005	Silver Grove	Campbell	10	4.904
2	0020014	Silver Grove	Campbell	0	0.000
3	0050022	Fort Thomas	Campbell	2	0.063
4	0060001	Unincorp Campbell County	Campbell	2	0.034
5	0060002	Unincorp Campbell County	Campbell	0	0.000
6	0100001	Highland Heights	Campbell	0	0.000
7	0100002	Highland Heights	Campbell	2	0.105
8	0110010	Highland Heights	Campbell	2	0.110
9	0150058	Wilder	Campbell	4	0.415
10	0150063	Wilder	Campbell	0	0.000
11	0150064	Wilder	Campbell	0	0.000
12	0150065	Wilder	Campbell	2	0.043
13	0150085	Unincorp Campbell County	Campbell	0	0.000
14	0150086	Southgate	Campbell	2	0.108
15	0150356	Southgate	Campbell	0	0.000
16	0220044	Fort Thomas	Campbell	2	0.015
17	0220058	Fort Thomas	Campbell	0	0.000
18	0270062	Fort Thomas	Campbell	0	0.000
19	0300008	Fort Thomas	Campbell	0	0.000
20	0410010	Fort Thomas	Campbell	3	0.041
21	0410019	Fort Thomas	Campbell	3	0.052
22	0410036	Fort Thomas	Campbell	0	0.000
23	0440074	Fort Thomas	Campbell	0	0.000
24	0530083	Newport	Campbell	5	0.244
25	0860001	Wilder	Campbell	18	11.951
26	0860003	Wilder	Campbell	0	0.000
27	0860016	Wilder	Campbell	0	0.000
28	1040060	Independence	Kenton	1	0.014
29	1090069	Edgewood	Kenton	0	0.000
30	1110025	Erlanger	Kenton	1	0.032
31	1110051	Erlanger	Kenton	2	0.039
32	1110067	Erlanger	Kenton	3	0.224
33	1110161	Erlanger	Kenton	1	0.041
34	1110164	Erlanger	Kenton	1	0.022
35	1110174	Elsmere	Kenton	1	0.026
36	1110275	Elsmere	Kenton	0	0.000
37	1110294	Erlanger	Kenton	2	0.021
38	1220029	Erlanger	Kenton	0	0.000
39	1240008	Erlanger	Kenton	6	0.104
40	1240012	Erlanger	Kenton	0	0.000
41	1560016	Fort Mitchell	Kenton	0	0.000
42	1560019	Fort Mitchell	Kenton	0	0.000
43	1560074	Fort Mitchell	Kenton	0	0.000
44	1560092	Fort Mitchell	Kenton	0	0.000
45	1590006	Lakeside Park	Kenton	0	0.000
46	1600029	Lakeside Park	Kenton	0	0.000
47	1600050	Lakeside Park	Kenton	0	0.000
48	1610102	Fort Mitchell	Kenton	0	0.000
49	1610114	Fort Mitchell	Kenton	0	0.000
50	1610115	Fort Mitchell	Kenton	0	0.000
51	1690043	Fort Wright	Kenton	0	0.000
52	1690072	Fort Wright	Kenton	0	0.000
53	1700025	Park Hills	Kenton	0	0.000
54	1730104	Fort Mitchell	Kenton	0	0.000
55	1760047	Edgewood	Kenton	0	0.000

Updated 4/30/2009

Recurring Wet Weather SSOs					
No.	MHID	City	County	Predicted Overflow Activations	Model Predicted Overflow Volume (MG)
56	1760048	Edgewood	Kenton	0	0.000
57	1830020	Unincorp Boone County	Boone	0	0.000
58	1830067	Unincorp Boone County	Boone	0	0.000
59	1850140	Covington	Kenton	1	0.003
60	1850141	Covington	Kenton	4	0.131
61	1860108	Taylor Mill	Kenton	0	0.000
62	1870013	Covington	Kenton	0	0.000
63	1890011	Lakeside Park	Kenton	0	0.000
64	1920163	Cold Spring	Campbell	NA	NA
65	1930007	Southgate	Campbell	0	0.000
66	1940006	Fort Wright	Kenton	2	0.196
67	1960002	Fort Wright	Kenton	2	0.102
68	1990018	Covington	Kenton	0	0.000
69	1990028	Covington	Kenton	1	0.165
70	2030097	Edgewood	Kenton	0	0.000
71	2070019	Elsmere	Kenton	0	0.000
72	2070020	Elsmere	Kenton	8	0.343
73	2090008	Elsmere	Kenton	3	0.161
74	2100007	Elsmere	Kenton	0	0.000
75	2100036	Elsmere	Kenton	1	0.019
76	2100037	Elsmere	Kenton	1	0.015
77	2100106	Elsmere	Kenton	2	0.047
78	2100128	Elsmere	Kenton	0	0.000
79	2100129	Elsmere	Kenton	7	0.549
80	2110002	Elsmere	Kenton	3	0.183
81	2120001	Elsmere	Kenton	2	0.035
82	2120041	Elsmere	Kenton	1	0.006
83	2130022	Villa Hills	Kenton	0	0.000
84	2150050	Crestview	Kenton	0	0.000
85	2160004	Fort Mitchell	Kenton	0	0.000
86	2160036	Fort Mitchell	Kenton	NA	NA
87	2280010	Unicorp Kenton County	Kenton	0	0.000
88	2280011	Unicorp Kenton County	Kenton	2	0.076
89	2280016	Unicorp Kenton County	Kenton	2	0.093
90	2290001	Crescent Springs	Kenton	0	0.000
91	2300019	Erlanger	Kenton	3	0.442
92	2300123	Unicorp Kenton County	Kenton	8	1.268
93	2300523	Erlanger	Kenton	6	1.520
94	2380001	Unincorp Boone County	Boone	0	0.000
95	2390002	Unincorp Boone County	Boone	0	0.000
96	2390006	Unincorp Boone County	Boone	0	0.000
97	2390008	Unincorp Boone County	Boone	0	0.000
98	2390762	Unincorp Boone County	Boone	0	0.000
			TOTAL	**134**	**23.963**

Threshold for model activation is 0.01 MGD and 0.001 MG

Updated 4/30/2009

APPENDIX E:

Recurring Wet Weather SSO Revisions Transaction Database

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Wet Weather SSO Revisions Transaction Database			
MHID	City	County	Comments
0020005	Silver Grove	Campbell	Identified as SSO based on field inspections
0020014	Silver Grove	Campbell	
0050022	Fort Thomas	Campbell	
0060001	Unincorp Campbell County	Campbell	
0060002	Unincorp Campbell County	Campbell	
0090009	Highland Heights	Campbell	Eliminated based on field inspections
0100001	Highland Heights	Campbell	
0100002	Highland Heights	Campbell	
0110010	Highland Heights	Campbell	
0150023	Southgate	Campbell	Eliminated based on field inspections
0150058	Wilder	Campbell	
0150063	Wilder	Campbell	
0150064	Wilder	Campbell	
0150065	Wilder	Campbell	
0150069	Wilder	Campbell	Eliminated based on field inspections
0150085	Unincorp Campbell County	Campbell	Identified as SSO based on field inspections
0150086	Southgate	Campbell	Identified as SSO based on field inspections
0150351	Southgate	Campbell	Eliminated based on field inspections
0150356	Southgate	Campbell	
0220044	Fort Thomas	Campbell	Identified as SSO based on field inspections
0220058	Fort Thomas	Campbell	Identified as SSO based on field inspections
0270062	Fort Thomas	Campbell	Identified as SSO based on field inspections
0300008	Fort Thomas	Campbell	
0410010	Fort Thomas	Campbell	
0410011	Fort Thomas	Campbell	Eliminated based on field inspections
0410019	Fort Thomas	Campbell	
0410036	Fort Thomas	Campbell	
0410068	Newport	Campbell	Eliminated based on field inspections
0440074	Fort Thomas	Campbell	
0530083	Newport	Campbell	
0650025	Bellevue	Campbell	Field investigation confirmed this to be a diversion structure.
0650053	Bellevue	Campbell	Field investigation confirmed that this structure is part of the ACOE Flood Control System.
0650098	Bellevue	Campbell	This is a CSO and is on the recurring CSO list as ID#0650098.
0860001	Wilder	Campbell	
0860003	Wilder	Campbell	
0860016	Wilder	Campbell	
1040060	Independence	Kenton	
1090069	Edgewood	Kenton	
1110025	Erlanger	Kenton	
1110051	Erlanger	Kenton	Identified as SSO based on field inspections
1110067	Erlanger	Kenton	
1110161	Erlanger	Kenton	
1110164	Erlanger	Kenton	Identified as SSO based on field inspections
1110174	Elsmere	Kenton	Identified as SSO based on field inspections
1110275	Elsmere	Kenton	Identified as SSO based on field inspections
1110294	Erlanger	Kenton	
1160004	Crestview Hills	Kenton	Eliminated based on field inspections
1190007	Erlanger	Kenton	Eliminated based on field inspections
1220029	Erlanger	Kenton	
1240008	Erlanger	Kenton	
1240012	Erlanger	Kenton	Identified as SSO based on field inspections
1280008	Erlanger	Kenton	Eliminated based on field inspections
1560016	Fort Mitchell	Kenton	
1560019	Fort Mitchell	Kenton	
1560074	Fort Mitchell	Kenton	

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Wet Weather SSO Revisions Transaction Database			
MHID	City	County	Comments
1560092	Fort Mitchell	Kenton	Identified as SSO based on field inspections
1570100	Fort Mitchell	Kenton	Eliminated based on field inspections
1590006	Lakeside Park	Kenton	
1600005	Lakeside Park	Kenton	Eliminated based on field inspections
1600009	Lakeside Park	Kenton	Eliminated based on field inspections
1600029	Lakeside Park	Kenton	
1600049	Lakeside Park	Kenton	Eliminated based on field inspections
1600050	Lakeside Park	Kenton	
1600059	Lakeside Park	Kenton	Eliminated based on field inspections
1600110	Lakeside Park	Kenton	Eliminated based on field inspections
1600113	Lakeside Park	Kenton	Eliminated based on field inspections
1610102	Fort Mitchell	Kenton	
1610114	Fort Mitchell	Kenton	
1610115	Fort Mitchell	Kenton	
1620001	Fort Mitchell	Kenton	Eliminated based on field inspections
1630012	Crescent Springs	Kenton	Eliminated based on field inspections
1680001	Unicorp Kenton County	Kenton	Eliminated based on field inspections
1690043	Fort Wright	Kenton	
1690072	Fort Wright	Kenton	Identified as SSO based on field inspections
1700025	Park Hills	Kenton	
1730104	Fort Mitchell	Kenton	
1730110	Bromley	Kenton	Eliminated based on field inspections
1760047	Edgewood	Kenton	
1760048	Edgewood	Kenton	
1820014	Villa Hills	Kenton	Eliminated based on field inspections
1830017	Unincorp Boone County	Boone	Eliminated based on field inspections
1830020	Unincorp Boone County	Boone	
1830067	Unincorp Boone County	Boone	
1850140	Covington	Kenton	Identified as SSO based on field inspections
1850141	Covington	Kenton	Identified as SSO based on field inspections
1860108	Taylor Mill	Kenton	
1870013	Covington	Kenton	
1890001	Lakeside Park	Kenton	Eliminated based on field inspections
1890010	Lakeside Park	Kenton	Eliminated based on field inspections
1890011	Lakeside Park	Kenton	
1900028	Cold Spring	Campbell	This structure is the Ripple Creek Pump Station. The overflow activity for pump stations are reported under the Recurring Pump Station Overlows section of the quarterly reports
1920163	Cold Spring	Campbell	
1930007	Southgate	Campbell	Identified as SSO based on field inspections
1940006	Fort Wright	Kenton	Identified as SSO based on field inspections
1950199	Fort Wright	Kenton	Eliminated based on field inspections
1960002	Fort Wright	Kenton	Identified as SSO based on field inspections
1960012	Crestview Hills	Kenton	Eliminated based on field inspections
1990018	Covington	Kenton	Identified as SSO based on field inspections
1990028	Covington	Kenton	Identified as SSO based on field inspections
2030097	Edgewood	Kenton	
2070019	Elsmere	Kenton	Identified as SSO based on field inspections
2070020	Elsmere	Kenton	Identified as SSO based on field inspections
2090001	Elsmere	Kenton	Eliminated based on field inspections
2090008	Elsmere	Kenton	Identified as SSO based on field inspections
2090026	Elsmere	Kenton	Eliminated based on field inspections
2100007	Elsmere	Kenton	Identified as SSO based on field inspections
2100036	Elsmere	Kenton	Identified as SSO based on field inspections
2100037	Elsmere	Kenton	Identified as SSO based on field inspections
2100106	Elsmere	Kenton	Identified as SSO based on field inspections
2100128	Elsmere	Kenton	Identified as SSO based on field inspections

Wet Weather SSO Revisions Transaction Database			
MHID	**City**	**County**	**Comments**
2100129	Elsmere	Kenton	Identified as SSO based on field inspections
2110002	Elsmere	Kenton	
2120001	Elsmere	Kenton	
2120002	Elsmere	Kenton	Eliminated based on field inspections
2120041	Elsmere	Kenton	
2130022	Villa Hills	Kenton	
2150050	Crestview	Kenton	
2160004	Fort Mitchell	Kenton	Identified as SSO based on field inspections
2160036	Fort Mitchell	Kenton	
2280010	Unicorp Kenton County	Kenton	Identified as SSO based on field inspections
2280011	Unicorp Kenton County	Kenton	
2280012	Unicorp Kenton County	Kenton	Eliminated based on field inspections
2280016	Unicorp Kenton County	Kenton	Identified as SSO based on field inspections
2290001	Crescent Springs	Kenton	
2300019	Erlanger	Kenton	Identified as SSO based on field inspections
2300123	Unicorp Kenton County	Kenton	
2300523	Erlanger	Kenton	Identified as SSO based on field inspections
2380001	Unincorp Boone County	Boone	
2390002	Unincorp Boone County	Boone	
2390006	Unincorp Boone County	Boone	
2390008	Unincorp Boone County	Boone	
2390762	Unincorp Boone County	Boone	
1950PS1	Fort Wright	Kenton	This structure is the Lakeview Pump Station. The overflow activity for pump stations are reported under the Recurring Pump Station Overlows section of the quarterly reports

New Wet Weather SSO Count: 98

SSOs Removed

SSOs Added

Updated 4/30/2009

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APPENDIX F:

Wet Weather CSOs

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Wet Weather CSOs				
No.	CSO ID	KPDES Permit #	Model Predicted Activations	Model Predicted Overflow Volume (MG)
1	0010220	To Be Permitted	4	0.294
2	0010228	To Be Permitted	NA	NA
3	0030031	KY0021466 - Outfall 10	0	0.000
4	0200069	KY0021466 - Outfall 11	6	0.023
5	0330100	KY0021466 - Outfall 12	1	0.008
6	0340050	KY0021466 - Outfall 14	4	0.061
7	0340051	KY0021466 - Outfall 13	7	0.163
8	0360079	To Be Permitted	6	0.081
9	0540009	To Be Permitted	5	0.130
10	0540044	To Be Permitted	5	0.210
11	0550134	To Be Permitted	1	0.001
12	0570089	KY0021466 - Outfall 16	13	4.209
13	0570090	KY0021466 - Outfall 17	9	2.732
14	0600094	KY0021466 - Outfall 18	7	0.113
15	0600096	To Be Permitted	2	0.010
16	0600097	KY0021466 - Outfall 19	6	0.324
17	0600104	To Be Permitted	1	0.004
18	0610071	KY0021466 - Outfall 21	21	1.461
19	0610072	KY0021466 - Outfall 20	4	0.034
20	0620075	KY0021466 - Outfall 23	13	0.859
21	0620077	KY0021466 - Outfall 22	4	0.020
22	0630061	KY0021466 - Outfall 83	6	0.120
23	0640090	KY0021466 - Outfall 24	15	16.024
24	0650054	To Be Permitted	0	0.000
25	0650090	KY0021466 - Outfall 26	3	0.618
26	0650098	To Be Permitted	3	0.429
27	0650100	KY0021466 - Outfall 25	2	0.009
28	0690059	To Be Permitted	0	0.000
29	0730129	To Be Permitted	17	0.178
30	0770096	KY0021466 - Outfall 28	18	0.653
31	0790084	KY0021466 - Outfall 31	23	1.482
32	0790086	KY0021466 - Outfall 29	16	28.282
33	0840111	To Be Permitted	22	2.739
34	0840112	To Be Permitted	9	0.162
35	0840116	KY0021466 - Outfall 27	19	0.643
36	0870078	KY0021466 - Outfall 33	2	0.085
37	0870079	KY0021466 - Outfall 34	16	5.084
38	0880081	KY0021466 - Outfall 36	16	3.708
39	0880082	KY0021466 - Outfall 35	2	0.087
40	0910065	KY0021466 - Outfall 38	23	49.316
41	0910066	To Be Permitted	0	0.000
42	0910068	KY0021466 - Outfall 37	15	9.896
43	0930102	KY0021466 - Outfall 43	0	0.000
44	0930103	KY0021466 - Outfall 42	1	0.003
45	0930104	KY0021466 - Outfall 40	0	0.000
46	0930105	KY0021466 - Outfall 41	17	4.889
47	0930106	KY0021466 - Outfall 39	0	0.000
48	0960063	KY0021466 - Outfall 45	3	0.500
49	0960064	KY0021466 - Outfall 44	0	0.000
50	0980073	KY0021466 - Outfall 46	1	0.002

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Wet Weather CSOs				
No.	CSO ID	KPDES Permit #	Model Predicted Activations	Model Predicted Overflow Volume (MG)
51	0980080	KY0021466 - Outfall 47	0	0.000
52	0980081	KY0021466 - Outfall 48	21	5.811
53	1310100	To Be Permitted	0	0.000
54	1320112	To Be Permitted	0	0.000
55	1350155	KY0021466 - Outfall 49	0	0.000
56	1380132	To Be Permitted	1	0.022
57	1380146	To Be Permitted	0	0.000
58	1420141	KY0021466 - Outfall 50	8	0.057
59	1420142	KY0021466 - Outfall 51	18	15.212
60	1420144	KY0021466 - Outfall 52	0	0.000
61	1420145	KY0021466 - Outfall 53	0	0.000
62	1420146	KY0021466 - Outfall 54	0	0.000
63	1420147	KY0021466 - Outfall 55	0	0.000
64	1440204	KY0021466 - Outfall 59	0	0.000
65	1440205	KY0021466 - Outfall 60	4	0.038
66	1440206	KY0021466 - Outfall 61	9	0.338
67	1440207	To Be Permitted	0	0.000
68	1440209	KY0021466 - Outfall 56	25	6.373
69	1470089	KY0021466 - Outfall 62	0	0.000
70	1470093	KY0021466 - Outfall 63	11	4.228
71	1480185	To Be Permitted	5	0.091
72	1480187	KY0021466 - Outfall 30	22	77.972
73	1490132	KY0021466 - Outfall 65	4	1.074
74	1490172	KY0021466 - Outfall 64	0	0.000
75	1500131	KY0021466 - Outfall 66	13	0.525
76	1510133	To Be Permitted	0	0.000
77	1510245	To Be Permitted	0	0.000
78	1710114	KY0021466 - Outfall 69	1	0.012
79	1710116	KY0021466 - Outfall 68	14	1.400
80	1710119	KY0021466 - Outfall 70	4	0.617
81	1710121	KY0021466 - Outfall 71	3	0.217
82	1710124	KY0021466 - Outfall 72	3	0.232
83	1720109	KY0021466 - Outfall 73	12	1.920
84	1730259	KY0021466 - Outfall 75	4	0.252
85	1730262	To Be Permitted	0	0.000
86	1730263	KY0021466 - Outfall 74	9	0.246
87	1840130	To Be Permitted	10	0.240
88	1850158	KY0021466 - Outfall 76	21	11.802
89	1870193	KY0021466 - Outfall 78	10	0.288
90	1870194	KY0021466 - Outfall 79	2	0.069
91	1880090	KY0021466 - Outfall 81	3	0.586
92	1880091	KY0021466 - Outfall 80	2	0.320
		TOTAL	**607**	**265.582**

Threshold for model activation is 0.01 MGD and 0.001 MG

APPENDIX G:

Wet Weather CSO Revisions Transaction Database

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Wet Weather CSO Revisions Transaction Database		
CSO ID	**KPDES Permit #**	**Comments**
0010001	To Be Permitted	Confirmed to be a diversion structure to CSO 0010220 *
0010220	To Be Permitted	Diversion structure 0010001 was originally listed as the CSO*
0010228	To Be Permitted	
0030031	KY0021466 - Outfall 10	
0200069	KY0021466 - Outfall 11	
0330100	KY0021466 - Outfall 12	
0340050	KY0021466 - Outfall 14	
0340051	KY0021466 - Outfall 13	
0360079	To Be Permitted	
0530110	To Be Permitted	Field investigation confirmed this to be the end of a bypass pipe. It is on the recurring SSO list as SSO ID #0530083
0530117	To Be Permitted	CSO Eliminated. Sanitary system was separated and outfall was converted to a separate storm sewer.
0540009	To Be Permitted	
0540044	To Be Permitted	
0550024	To Be Permitted	Confirmed to be a diversion structure to CSO 0550134*
0550134	To Be Permitted	Diversion structure 0550024 was originally listed as the CSO*
0570089	KY0021466 - Outfall 16	
0570090	KY0021466 - Outfall 17	
0600094	KY0021466 - Outfall 18	
0600096	To Be Permitted	
0600097	KY0021466 - Outfall 19	
0600104	To Be Permitted	
0610071	KY0021466 - Outfall 21	
0610072	KY0021466 - Outfall 20	
0620075	KY0021466 - Outfall 23	
0620077	KY0021466 - Outfall 22	
0630061	KY0021466 - Outfall 83	
0640090	KY0021466 - Outfall 24	
0650054	To Be Permitted	
0650090	KY0021466 - Outfall 26	
0650098	To Be Permitted	
0650100	KY0021466 - Outfall 25	
0690008	To Be Permitted	Confirmed to be a diversion structure to CSO 0690059*
0690059	To Be Permitted	Diversion structure 0690008 was originally listed as the CSO*
0730129	To Be Permitted	
0770096	KY0021466 - Outfall 28	
0790084	KY0021466 - Outfall 31	
0790086	KY0021466 - Outfall 29	
0840111	To Be Permitted	
0840112	To Be Permitted	
0840116	KY0021466 - Outfall 27	
0870078	KY0021466 - Outfall 33	
0870079	KY0021466 - Outfall 34	
0880081	KY0021466 - Outfall 36	
0880082	KY0021466 - Outfall 35	
0910065	KY0021466 - Outfall 38	
0910066	To Be Permitted	
0910068	KY0021466 - Outfall 37	
0930102	KY0021466 - Outfall 43	
0930103	KY0021466 - Outfall 42	
0930104	KY0021466 - Outfall 40	
0930105	KY0021466 - Outfall 41	
0930106	KY0021466 - Outfall 39	
0960063	KY0021466 - Outfall 45	
0960064	KY0021466 - Outfall 44	
0980073	KY0021466 - Outfall 46	

Wet Weather CSO Revisions Transaction Database		
CSO ID	**KPDES Permit #**	**Comments**
0980080	KY0021466 - Outfall 47	
0980081	KY0021466 - Outfall 48	
1310100	To Be Permitted	
1320093	To Be Permitted	Confirmed to be a diversion structure to CSO 1320112*
1320112	To Be Permitted	Diversion structure 1320093 was originally listed as the CSO*
1350155	KY0021466 - Outfall 49	
1380054	To Be Permitted	Confirmed to be a diversion structure to CSO 1380132*
1380083	To Be Permitted	Confirmed to be a diversion structure to CSO 1380146*
1380132	To Be Permitted	Diversion structure 1380054 was originally listed as the CSO*
1380146	To Be Permitted	Diversion structure 1380083 was originally listed as the CSO*
1420141	KY0021466 - Outfall 50	
1420142	KY0021466 - Outfall 51	
1420144	KY0021466 - Outfall 52	
1420145	KY0021466 - Outfall 53	
1420146	KY0021466 - Outfall 54	
1420147	KY0021466 - Outfall 55	
1440204	KY0021466 - Outfall 59	
1440205	KY0021466 - Outfall 60	
1440206	KY0021466 - Outfall 61	
1440207	To Be Permitted	
1440209	KY0021466 - Outfall 56	
1470089	KY0021466 - Outfall 62	
1470093	KY0021466 - Outfall 63	
1480185	To Be Permitted	
1480187	KY0021466 - Outfall 30	
1490132	KY0021466 - Outfall 65	
1490172	KY0021466 - Outfall 64	
1500131	KY0021466 - Outfall 66	
1510098	To Be Permitted	Confirmed to be a diversion structure to CSO 1510245*
1510133	To Be Permitted	
1510245	To Be Permitted	Diversion structure 1510098 was originally listed as the CSO*
1710114	KY0021466 - Outfall 69	
1710116	KY0021466 - Outfall 68	
1710119	KY0021466 - Outfall 70	
1710121	KY0021466 - Outfall 71	
1710124	KY0021466 - Outfall 72	
1720109	KY0021466 - Outfall 73	
1730259	KY0021466 - Outfall 75	
1730262	To Be Permitted	
1730263	KY0021466 - Outfall 74	
1840130	To Be Permitted	
1850158	KY0021466 - Outfall 76	
1870193	KY0021466 - Outfall 78	
1870194	KY0021466 - Outfall 79	
1880090	KY0021466 - Outfall 81	
1880091	KY0021466 - Outfall 80	

New CSO Count: 92
CSOs Removed
CSOs Added

**** Several diversion structures were listed as CSO outfalls. The diversion structures are being removed from the list and the appropriate outfall is being added.***

Updated 4/30/2009