



April 30, 2008

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 (District) is required to submit quarterly reports that demonstrate the District'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 the District's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of January 1, 2008 through March 31, 2008. This report also contains an outlook for the upcoming calendar quarter period of April 1, 2008 through June 30, 2008.

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April 30, 2008

A certification as required by the Consent Decree is also enclosed (Consent Decree paragraph 38). The Cabinet and EPA have 90 days from receipt to review submittals unless the District receives notification before the expiration of the 90-day period that review will take longer (Consent Decree paragraph 44).

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 the District by demonstrating aggressive, proactive, achievable measures underway in Northern Kentucky to protect water resources and enhance the quality of life.

I look forward to receiving your comments in the near future. 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](mailto:jeger@sd1.org).

Best regards,

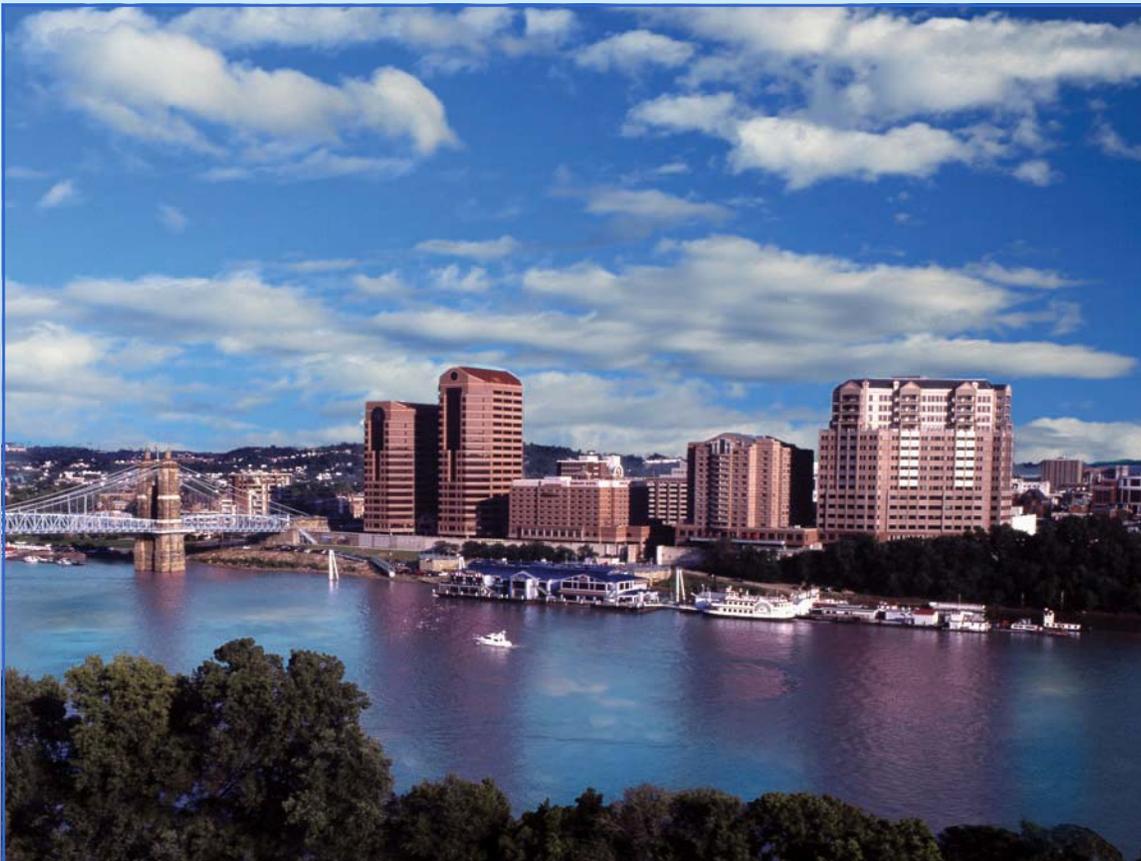


Jeffery A. Eger  
General Manager

JAE/mm  
Enclosures

# Consent Decree Quarterly Report No. 02 (January 1, 2008 through March 31, 2008)

Sanitation District No. 1  
April 30, 2008



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CERTIFICATION

Consent Decree Quarterly Report No. 02  
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.

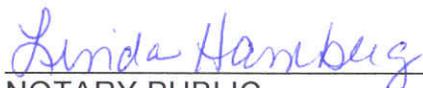
  
\_\_\_\_\_  
Jeffery A. Eger  
General Manager

April 28, 2008  
\_\_\_\_\_  
Date

COMMONWEALTH OF KENTUCKY

COUNTY OF Kenton )ss.

The foregoing instrument was acknowledged before me this 28 day of April, 2008 by Jeffery A. Eger, General Manager of Sanitation District No. 1.

  
\_\_\_\_\_  
NOTARY PUBLIC

State Range County, Kentucky

My commission expires: May 9, 2010

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# **CONSENT DECREE QUARTERLY REPORT NO. 02**

April 30, 2008



**Sanitation District No. 1**

1045 Eaton Drive  
Ft. Wright, KY 41017

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## LIST OF ACRONYMS AND ABBREVIATIONS

Cabinet	Kentucky Environmental and Public Protection Cabinet
CSO	Combined Sewer Overflow
District	Sanitation District No. 1
EPA	U.S. Environmental Protection Agency
gbaMS	GBA Master Series (information tracking system)
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 (District) 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 Environmental and Public Protection Cabinet (Cabinet). The purpose of the Consent Decree is to address sanitary sewer overflows (SSOs) in the District's sanitary sewer system and combined sewer overflows (CSOs) in the combined sewer system in an effort to improve water quality throughout the District'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 the District's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of January 1, 2008 through March 31, 2008. This report also contains an outlook for the upcoming calendar quarter period of April 1, 2008 through June 30, 2008.

### 1.3 Consent Decree Compliance Schedule

A comprehensive Gantt chart outlining the District'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, 2008, 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 the District's estimates of overflow activity in the collection systems. While the District 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 currently taking place as part of the District's wet-weather management activities, and future reports will incorporate

expanded overflow metrics based on more quantitative measures as they become available.

Additionally, as the information contained within the required Consent Decree reports begins to be standardized, the District's computerized maintenance management system, GBA Master Series (gbaMS), will continue to be fine-tuned to help support these specific reporting needs and better track system performance. The District 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, the District is undergoing adjustments to both the data input and output processes for gbaMS to generate more precise data for use in these quarterly reports. The District will continue to work on these adjustments throughout the remainder of calendar year 2008. Until gbaMS is enhanced to meet these new needs, several numbers generated from this software program will be reported as "approximate." As the District moves forward with structuring its reporting procedures, quality assurance and quality control issues regarding data input and output from gbaMS will be addressed.

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

- *Recurring SSOs* – Recurring overflows from the District's sanitary sewer system, typically during wet weather. Overflows are determined to be "recurring" if they have been observed to overflow twice in a 12-month period. This category includes wet-weather discharges at pump stations that may or may not have a constructed bypass.
- *Non-recurring SSOs* – Overflows from the District's sanitary sewer system, including pump stations, that have been observed to overflow less frequently than twice in a 12-month period. 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 the District'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 the District's responsibility or the building owner's responsibility.

The remainder of this section reports overflows that occurred throughout the District's service area during the period of January 1, 2008 through March 31, 2008.

## 2.1 Recurring SSOs

The District uses three general methods for developing quantitative estimates of recurring SSO activity:

- Field inspections during, or shortly after, wet-weather events to identify activations. This inspection program has been in place for approximately two years and will be expanded as warranted for ongoing reporting. The District's wet weather crew continues to perform routine inspections before and after rain events at recurring SSO locations. This is part of the District's ongoing effort to characterize overflows throughout the collection systems and ensure they are categorized accurately. Proper characterization of overflows will help identify the most appropriate and effective solutions to be included in the District's Watershed Plans.
- Simple hydraulic estimating using Manning's Gravity Flow and Pipe Calculation to report overflows from pump stations with constructed bypasses. This method has been used historically for reporting purposes, and its results are included in this Quarterly Report.
- Estimates developed from the District's system-wide collection system models. As part of developing the first set of Watershed Plans required under the Consent Decree, the District is currently completing a comprehensive recalibration and verification of this modeling tool, using 12 months of flow data collected at 245 flow monitoring locations. As discussed with both the EPA and the Cabinet in previous communications, the calibration and verification refinement process is scheduled for completion in June 2008. Therefore, beginning with the July 2008 Quarterly Report, the collection system model should be available for use as a tool for estimating recurring SSO activations and volume.

A complete listing of the District's 99 recurring SSO locations can be found in Appendix C. This list was revised subsequent to the January 2008 Quarterly Report based on the field inspection program described above. The following changes were made to the original Recurring SSO list found in Exhibit A of the District's Consent Decree:

- 1 SSO was changed to a CSO.
- 6 SSOs were eliminated through abandonment or construction.
- 34 SSOs were removed from the list after having been observed to overflow less than twice in a 12-month period.
- 34 SSOs were added to the list after having been observed to overflow at least twice in a 12-month period.

A detailed transaction database outlining structure numbers and dates of transaction for the 75 revisions listed above can be found in Appendix D. Estimated SSO occurrences

and volume will be presented in future reports once the system-wide collection system models have been fully calibrated.

In addition to the 99 recurring SSOs, there are also 14 pump stations identified in the Consent Decree that have historically documented recurring wet weather capacity issues. The District 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 2.1 lists each of the 14 pump stations identified in Exhibit E of the Consent Decree and demonstrates their SSO occurrences during the current reporting period. The 14 pump stations listed in the Consent Decree discharged a total of 48 times during the current reporting period, with an estimated overflow volume of 23,867,000 gallons. As previously mentioned, the District 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.

**Table 2.1 Discharges from Consent Decree Pump Stations**  
(January 1, 2008 – March 31, 2008)

Name of Pump Station	Number of Discharge Occurrences	Total Estimated Volume (gallons)
Alex-Licking <sup>1</sup>	8	638,000
Allen-Fork	0	0
Crestview	0	0
Harrison Harbor	0	0
Highland Acres	0	0
Kentucky Aire <sup>2</sup>	6	325,000
Lakeview	10	21,354,000
Reilly Road	7	239,000
Ripple Creek <sup>3</sup>	8	1,060,000
South Hampton <sup>4</sup>	5	85,000
South Park	0	0
Sunset	3	137,000
Taylorport	1	29,000
Union	0	0
<b>TOTAL</b>	<b>48</b>	<b>23,867,000</b>

<sup>1</sup> Two of the bypasses at the Alex-Licking Pump Station were caused by mechanical failures during dry weather.

<sup>2</sup> One of the bypasses at the Kentucky Aire Pump Station was caused by a power failure during dry weather.

<sup>3</sup> One of the bypasses at the Ripple Creek Pump Station was caused by a power failure during dry weather.

<sup>4</sup> One of the bypasses at the South Hampton Pump Station was caused by a power failure during dry weather.

In addition to tracking bypasses at the pump stations listed in the Consent Decree, the District continuously monitors all pump stations throughout the service area for wet weather capacity issues. During the current reporting period, there were seven pump stations not listed in the Consent Decree that discharged during wet weather due to lack of capacity. Table 2.2 provides detailed information for these occurrences. As the District 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 2.2 Discharges from Pump Stations Not Listed in the Consent Decree Due to Lack of Capacity (January 1, 2008 – March 31, 2008)**

<b>Name of Pump Station</b>	<b>Number of Wet-Weather Related Discharge Occurrences</b>	<b>Total Estimated Volume (gallons)</b>
Bullitsville	1	83,000
Highland Heights <sup>1</sup>	12	1,950,000
Keavy Road	2	33,000
Mafred	2	38,000
Meadow Lane	1	5,000
Ridgeway	1	8,000
Sand Run <sup>2</sup>	2	54,000
<b>TOTAL</b>	<b>21</b>	<b>2,171,000</b>

<sup>1</sup> One of the bypasses at the Highland Heights Pump Station was caused by a mechanical failure, and one was caused by a power failure.

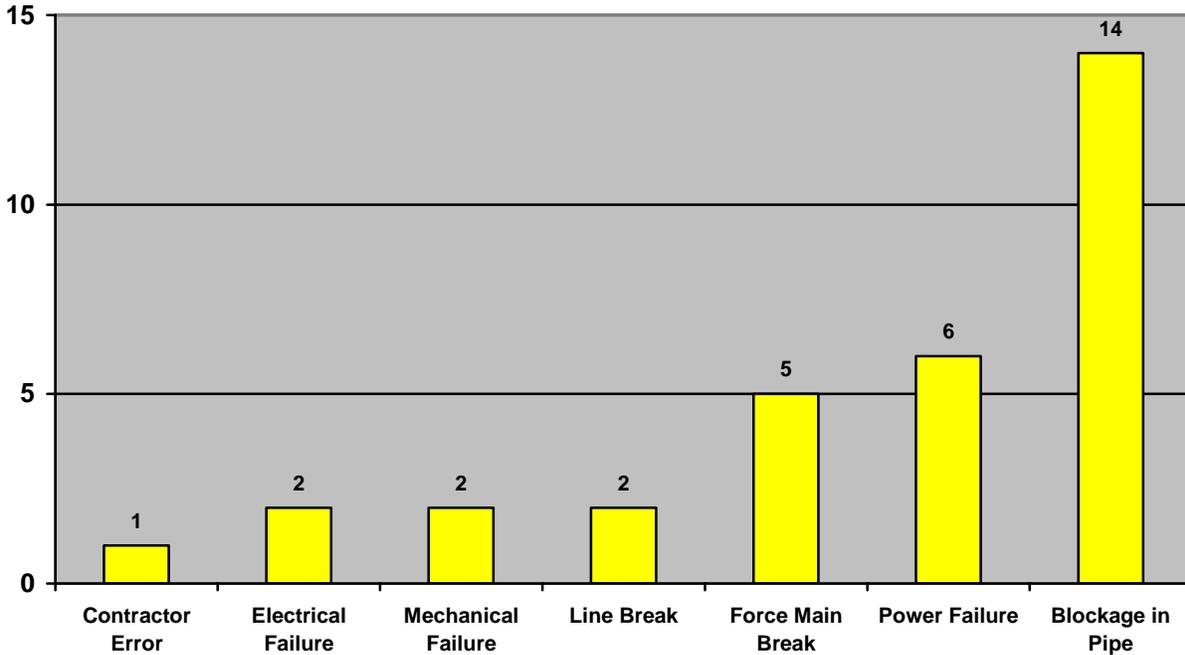
<sup>2</sup> One of the wet weather releases at the Sand Run Pump Station occurred while one of the three pumps was out of operation.

## 2.2 Non-recurring SSOs

During the current reporting period, there were a total of 32 non-recurring SSOs throughout the District's service area with a total estimated overflow volume of 1,644,168 gallons. As previously mentioned, this category of overflows includes discharges from the District's sanitary sewer system that have been observed to overflow less frequently than twice in a 12-month period. Included in this category are occurrences at 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. Manning's Gravity Flow and Pipe Calculation is used to estimate discharge volume from any overflow release out of a pipe, and industry standard volume estimation techniques and calculations are used for spills or for any witnessed overflow from a manhole.

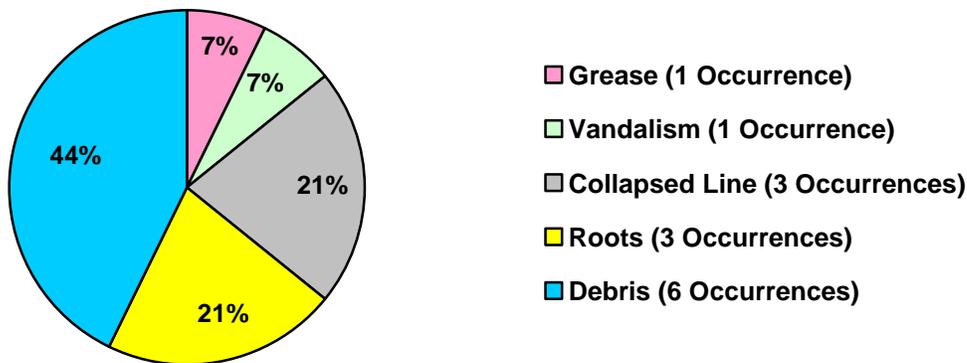
The 32 overflows reported in this category can be broken down by the primary causes demonstrated in Figure 2.1.

**Figure 2.1 Causes for Non-recurring SSOs  
(January 1, 2008 – March 31, 2008)**



The 14 non-recurring SSOs caused by blockages can further be broken down into five secondary causes, as demonstrated in Figure 2.2 below.

**Figure 2.2 Causes for Blockages in Pipes Resulting in Non-recurring SSOs  
(January 1, 2008 – March 31, 2008)**



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 checked in the next six months as part of our Continuous Sewer Assessment Program.

## **2.3 Wet Weather CSOs**

Similar to developing quantitative estimates for recurring SSO activity, the District will ultimately use the system-wide collection system model for estimating wet-weather CSO activations and volume. As part of developing the first set of Watershed Plans required under the Consent Decree, the District is currently completing a comprehensive recalibration and verification of this modeling tool, using 12 months of flow data collected at 245 flow monitoring locations. As discussed with both the EPA and the Cabinet in previous communications, the calibration and verification refinement process is scheduled for completion in June 2008. Therefore, it is projected that the collection system models will be used as a tool for estimating wet-weather CSO metrics beginning with the July 2008 Quarterly Report.

For a current list of the District's 96 wet weather CSOs, refer to Appendix E.

## **2.4 Dry Weather CSOs**

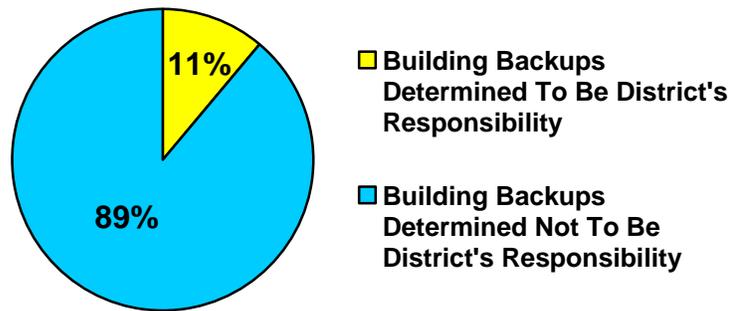
During the current reporting period, there were four CSOs during dry weather, with a total estimated discharge volume of 6,338,000 gallons. Three of these occurrences were due to blockages in the combined sewers. The fourth occurrence was due to erroneous bypass pumping operations by a contractor for construction of the Covington grit pit. Their pump elevation was set too high, causing this upstream dry weather overflow. The increased velocity due to the pumping also caused additional grit to move through the sewer, which exacerbated the time to stop the overflow that was occurring due to the time needed to clean the sewer and remove the grit. This single occurrence at structure 0910064 resulted in an overflow volume of 6,200,000 gallons, or approximately 98% of the dry weather CSO overflow volume for the current reporting period.

These dry weather CSOs were evaluated for cause, and solutions were identified to ensure they do not reoccur in accordance with our Nine Minimum Control No. 5 plan to reduce and eliminate dry weather CSOs.

## **2.5 Building Backups**

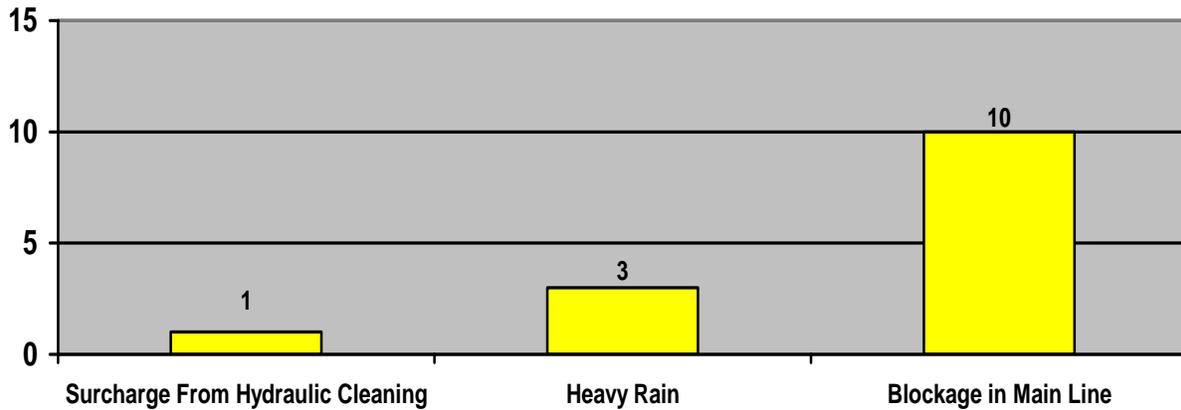
During the current reporting period, there were approximately 127 building backups throughout the District's service area. Of these 127, approximately 14 were determined to be the District's responsibility and 113 were determined not to be the responsibility of the District, as shown in Figure 2.3. The backups determined not to be the responsibility of the District were due to causes such as breaks and blockages in private service laterals.

**Figure 2.3 Building Backups: Public vs. Private**  
(January 1, 2008 – March 31, 2008)



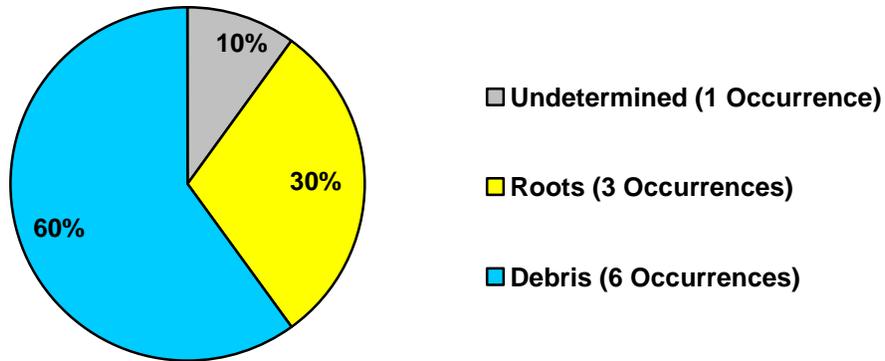
Causes for the approximate 14 building backups determined to be the District's responsibility are detailed in Figure 2.4 below.

**Figure 2.4 Causes of District-Responsible Building Backups**  
(January 1, 2008 – March 31, 2008)



The 10 building backups caused by blockages can further be broken down into three secondary causes, as demonstrated in Figure 2.5.

**Figure 2.5 Causes for Blockages in Main Line Resulting in a Building Backup  
(January 1, 2008 – March 31, 2008)**



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 checked in the next six months as part of our Continuous Sewer Assessment Program.

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**APPENDIX A:**

***Consent Decree Schedule 2007-2012***

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### Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party	2007		2008		2009		2010		2011		2012		2013		2014									
							May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May		
1	<b>Consent Decree</b>	2449 days	Wed 4/18/07	Tue 12/31/13			▶																							
2																														
3	<b>NMC PROGRAM REQUIREMENTS</b>	1887.38 days	Wed 4/18/07	Sun 6/17/12			▶																							
4	<b>NMC 1 -- Operation and Maintenance</b>	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	100%	5/23																						
6	Complete Draft O&M Scoping for entire system	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter	100%	6/22																						
7	Draft Prioritized O&M Program	114 days	Wed 4/18/07	Fri 8/10/07		Novak/Vatter	100%	8/10																						
8	Revised Program Presented to District	17 days	Fri 8/10/07	Mon 8/27/07			100%	8/27																						
9	<b>NMC 2 -- Maximization of Storage</b>	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	100%	8/31																						
11	Final Plan	288 days	Wed 4/18/07	Thu 1/31/08		Novak/Vatter	100%	1/31																						
12	<b>NMC 3 -- Pretreatment</b>	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	100%	9/10																						
14	Recommendations Presented at Meeting	0 days	Mon 9/10/07	Mon 9/10/07				9/10																						
15	Final Plan	177 days	Wed 4/18/07	Fri 10/12/07		Novak/Vatter	100%	10/12																						
16	<b>NMC 4 -- Maximize Collection and Treatment</b>	233 days	Wed 4/18/07	Fri 12/7/07			▶																							
17	Interceptor Inspection	153 days	Wed 4/18/07	Tue 9/18/07			100%	9/18																						
18	Dry Creek Analysis	165 days	Wed 4/18/07	Sun 9/30/07			100%	9/30																						
19	Draft Plan	150 days	Wed 4/18/07	Sat 9/15/07		Novak/Vatter	100%	9/15																						
20	Final Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	100%	12/7																						
21	<b>NMC 5 -- Prevent Dry Weather Overflows</b>	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	100%	6/22																						
23	Dry Weather Overflow Assessment and Recommendations	121 days	Wed 4/18/07	Fri 8/17/07			100%	8/17																						
24	Draft River Water Intrusion Feasibility Plan	201 days	Wed 4/18/07	Mon 11/5/07		Novak/Vatter	100%	11/5																						
25	Final River Water Intrusion Feasibility Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	100%	12/7																						
26	<b>NMC 6 -- Solids and Floatable Control</b>	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	100%	7/19																						
28	Identify locations for pilot floatables control	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter	100%	7/19																						
29	Complete Installation Details (Awaiting Modeling to Confirm Sizing)	160 days	Wed 4/18/07	Tue 9/25/07			100%	9/25																						
30	Complete Fabrication & Installation	50 days	Wed 9/26/07	Thu 11/15/07			100%	11/15																						
31	Complete Pilot Field Study (Dependent on rain events captured)	348 days	Wed 4/18/07	Mon 3/31/08			90%	3/31																						
32	Final prioritized plan	348 days	Wed 1/16/08	Mon 12/29/08		Novak/Vatter	100%	12/29																						
33	Submit NMC Documentation of Compliance	366 days	Wed 4/18/07	Fri 4/18/08	35	Novak/Vatter	100%	4/18																						
34	Draft report to SD1	233 days	Wed 4/18/07	Fri 12/7/07			100%	12/7																						
35	Actual Submittal Date	0 days	Wed 3/12/08	Wed 3/12/08		Novak/Vatter		3/12																						
36	Submit NMC Documentation of Full Compliance	731 days	Wed 4/18/07	Sat 4/18/09	35	Novak/Vatter	0%	4/18																						
37	Submit First NMC Annual Report	60 days	Sat 4/18/09	Wed 6/17/09	35	Novak/Vatter	0%	6/17																						
38	<b>Submit NMC Annual Report</b>	1095 days	Thu 6/18/09	Sun 6/17/12	35	Novak/Vatter	▶																							
42																														
43																														
44	<b>CMOM PROGRAM REQUIREMENTS</b>	2449 days	Wed 4/18/07	Tue 12/31/13			▶																							
45	Submit CMOM Program Self-Assessment	183 days	Wed 4/18/07	Thu 10/18/07	36	Mulshine	100%	10/18																						
46	Actual Submittal Date	0 days	Wed 10/17/07	Wed 10/17/07		Mulshine		10/17																						
47	Regroup Meeting	0 days	Thu 7/12/07	Thu 7/12/07		Kendall/Mulshine		7/12																						

Project: CD Project First Five Years-A1  
Date: Mon 4/28/08

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	2007		2008		2009		2010		2011		2012		2013		2014	
							May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May
48	CMOM Workshops	32 days	Mon 7/23/07	Fri 8/24/07		Kendall/Mulshine	100%	8/24														
49	Report submitted for internal review	28 days	Fri 8/24/07	Fri 9/21/07		Kendall/Mulshine	100%	9/21														
50	Report submitted to key people for final review	0 days	Fri 9/28/07	Fri 9/28/07		Kendall/Mulshine		9/28														
51	Submit Grease Control Program (FOG)	183 days	Wed 4/18/07	Thu 10/18/07	36(a)	Clark/Martin	100%	10/18														
52	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07	36(a)	Casey/Waters		9/18														
53	Submit Pump Station Backup Power Plan	366 days	Wed 4/18/07	Fri 4/18/08	36(b)	Novak/Vatter	100%	4/18														
54	Actual Submittal Date	0 days	Fri 12/14/07	Fri 12/14/07	36(b)	Novak/Vatter		12/14														
55	Submit Sewer Overflow Response Plan (SORP)	183 days	Wed 4/18/07	Thu 10/18/07	36(c)	Kendall	100%	10/18														
56	Actual Submittal Date	0 days	Tue 10/9/07	Tue 10/9/07	36(c)	Casey/Waters		10/9														
57	<b>Submit CMOM Annual Report</b>	<b>2449 days</b>	<b>Wed 4/18/07</b>	<b>Tue 12/31/13</b>																		
58	Submit CMOM Annual Report 1	257 days	Wed 4/18/07	Mon 12/31/07			100%	12/31														
59	Actual Submittal Date	0 days	Fri 12/28/07	Fri 12/28/07				12/28														
60	Submit CMOM Annual Report 2	365 days	Mon 12/31/07	Tue 12/30/08			0%	12/30														
61	Submit CMOM Annual Report 3	365 days	Wed 12/31/08	Thu 12/31/09				0%	12/31													
62	Submit CMOM Annual Report 4	365 days	Thu 12/31/09	Fri 12/31/10					0%	12/31												
63	Submit CMOM Annual Report 5	365 days	Fri 12/31/10	Sat 12/31/11						0%	12/31											
64	Submit CMOM Annual Report 6	365 days	Sat 12/31/11	Sun 12/30/12							0%	12/30										
65	Submit CMOM Annual Report 7	365 days	Mon 12/31/12	Tue 12/31/13								0%	12/31									
66	<b>Complete SORP Annual Review</b>	<b>1826 days</b>	<b>Fri 10/19/07</b>	<b>Thu 10/18/12</b>	<b>36(c)</b>	<b>Kendall</b>																
67	Complete SORP Annual Review 2	365 days	Fri 10/19/07	Sat 10/18/08	36(c)	Kendall	0%	10/18														
68	Complete SORP Annual Review 3	364 days	Sun 10/19/08	Sun 10/18/09	36(c)	Kendall		0%	10/18													
69	Complete SORP Annual Review 4	364 days	Mon 10/19/09	Mon 10/18/10	36(c)	Kendall			0%	10/18												
70	Complete SORP Annual Review 5	364 days	Tue 10/19/10	Tue 10/18/11	36(c)	Kendall				0%	10/18											
71	Complete SORP Annual Review 6	365 days	Wed 10/19/11	Thu 10/18/12	36(c)	Kendall					0%	10/18										
72																						
73																						
74	<b>INITIAL WATERSHED PROJECT LIST</b>	<b>2084.38 days</b>	<b>Wed 4/18/07</b>	<b>Mon 12/31/12</b>																		
75	Complete Initial Watershed Projects (51 Total) (Actual Deadline 2014)	2084 days	Wed 4/18/07	Mon 12/31/12	37	Novak	71%	12/31														
76	34 Projects Complete, 9 Under Construction (8 Associated with WRWWTP)	0 days	Tue 6/26/07	Tue 6/26/07	37	Novak		6/26														
77	Submit First Initial Watershed Projects Annual Report	366 days	Wed 4/18/07	Fri 4/18/08	37	Mulshine	100%	4/18														
78	Actual Submittal Date	0 days	Tue 4/8/08	Tue 4/8/08		Mulshine		4/8														
79	Submit Initial Watershed Projects Annual Report	1521.38 days	Sat 4/19/08	Mon 6/18/12	37	Mulshine																
84																						
85																						
86	<b>PUMP STATION PLAN</b>	<b>1748.38 days</b>	<b>Wed 4/18/07</b>	<b>Mon 1/30/12</b>																		
87	Submit Pump Station Plan (PSP)	183 days	Wed 4/18/07	Thu 10/18/07	38	Novak/Vatter	100%	10/18														
88	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07		Novak/Vatter		9/18														
89	Submit First Pump Station Plan Annual Report	409 days	Thu 10/18/07	Sun 11/30/08	38	Mulshine	0%	11/30														
90	Submit Pump Station Plan Annual Report	1155 days	Mon 12/1/08	Mon 1/30/12	38	Mulshine																
94	Complete Remedial Measures at 8 Pump Stations	1353 days	Wed 4/18/07	Fri 12/31/10	38	Novak/Vatter	0%	12/31														
95																						
96																						
97	<b>WATERSHED PLANNING (1st of 4 Plans)</b>	<b>804 days</b>	<b>Wed 4/18/07</b>	<b>Tue 6/30/09</b>																		
98	Develop Watershed Framework	226 days	Wed 4/18/07	Fri 11/30/07	39(a)	Gibson/Clements	100%	11/30														

Project: CD Project First Five Years-A  
Date: Mon 4/28/08

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	2007		2008			2009			2010			2011			2012			2013			2014	
							May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May
99	Complete Internal Review of Draft Framework	30 days	Sat 12/1/07	Mon 12/31/07	39(a)	Gibson/Clements			100%		12/31																	
100	Obtain Public Input on Framework for Watershed Plans	58 days	Wed 1/23/08	Fri 3/21/08	40	Casey			100%		3/21																	
101	Submit Framework for Watershed Plans	0 days	Fri 4/18/08	Fri 4/18/08	39(a)	Gibson/Clements					4/18																	
102	<b>First Round of Watershed Plans</b>	<b>804 days</b>	<b>Wed 4/18/07</b>	<b>Tue 6/30/09</b>	<b>39(b)</b>	<b>Gibson/Clements</b>																						
103	Draft 16 Watershed Characterization Reports	226 days	Wed 4/18/07	Fri 11/30/07		Clements	100%				11/30																	
104	Complete Internal Review for 16 Watershed Characterization Reports	274 days	Sat 12/1/07	Sun 8/31/08		Clements			20%			8/31																
105	Develop Alternatives Analysis Approach	212 days	Sat 9/1/07	Mon 3/31/08		Vatter/Turner	100%				3/31																	
106	Conduct Banklick Pilot Project	169 days	Tue 11/13/07	Wed 4/30/08		Vatter/Turner			74%			4/30																
107	Develop Preliminary Water Quality Models	408 days	Wed 4/18/07	Fri 5/30/08		Scott	65%					5/30																
108	Develop Infrastructure Models	439 days	Wed 4/18/07	Mon 6/30/08		Vatter	70%					6/30																
109	Confirm Water Quality Models	59 days	Tue 7/1/08	Fri 8/29/08		Scott					0%		8/29															
110	Conduct Alternatives Analysis	274 days	Tue 4/1/08	Wed 12/31/08		Vatter/Turner			0%				12/31															
111	Conduct Financial Affordability Analysis	274 days	Tue 4/1/08	Wed 12/31/08	39(a)	Turner/Schmitt			90%				12/31															
112	Conduct Water Quality Assessments (Stream Monitoring)	623 days	Wed 4/18/07	Wed 12/31/08		Scott/Wooten	35%						12/31															
113	Develop Watershed Health Index	426 days	Thu 11/1/07	Wed 12/31/08		Wooten			35%				12/31															
114	Complete Draft Watershed Plans	88 days	Fri 1/2/09	Tue 3/31/09	39(b)	Gibson/Clements							0%		3/31													
115	Obtain Public Input on First Round of Watershed Plans	60 days	Wed 4/1/09	Sun 5/31/09	40	Casey							0%		5/31													
116	Submit First Round of Watershed Plans	0 days	Tue 6/30/09	Tue 6/30/09	39(b)	Gibson/Clements																						
117	Watershed Summit -- Meets Public Input Requirement for Watershed Plan Process	0 days	Thu 8/30/07	Thu 8/30/07	40	Casey																						
118																												
119																												
120	<b>REPORTING</b>	<b>2022.38 days</b>	<b>Wed 4/18/07</b>	<b>Tue 10/30/12</b>																								
121	Submit Quarterly Report 1	287 days	Wed 4/18/07	Wed 1/30/08		Mulshine	100%				1/30																	
122	Actual Submittal Date	0 days	Wed 1/30/08	Wed 1/30/08		Mulshine																						
123	Quarterly Reports	1734 days	Thu 1/31/08	Tue 10/30/12	42	Mulshine																						
143																												
144																												
145	<b>CIVIL PENALTY</b>	<b>61 days</b>	<b>Wed 4/18/07</b>	<b>Mon 6/18/07</b>																								
146	Pay Civil Penalties to EPPC and US EPA	61 days	Wed 4/18/07	Mon 6/18/07	46	Schmitt	100%				6/18																	
147																												
148																												
149	<b>SUPPLEMENTAL PROJECTS</b>	<b>1887 days</b>	<b>Wed 4/18/07</b>	<b>Sun 6/17/12</b>																								
150	Supplemental Env. Projects	1827 days	Wed 4/18/07	Wed 4/18/12	47	Turner	15%																					
151	SEP Completion Reports	60 days	Wed 4/18/12	Sun 6/17/12	48	Mulshine																						
152																												
153																												
154	<b>STATE ENVIRONMENTAL PROJECTS</b>	<b>1887.38 days</b>	<b>Wed 4/18/07</b>	<b>Sun 6/17/12</b>	<b>49</b>	<b>Gibson/Casey</b>																						
155	Conservancies	1827 days	Wed 4/18/07	Wed 4/18/12	49	Clements/Frye	8%																					
156	Licking River Watershed Watch	1827 days	Wed 4/18/07	Wed 4/18/12	49	Scott	25%																					
157	Split Rock	1827 days	Wed 4/18/07	Wed 4/18/12	49	Wooten	100%																					
158	Education Programs	1827 days	Wed 4/18/07	Wed 4/18/12	49	Casey/Eggemeyer	5%																					
159	State Environmental Project Completion Report	60 days	Wed 4/18/12	Sun 6/17/12	50	Mulshine																						
160	Set up 6 Separate Escrow Accounts	183 days	Wed 4/18/07	Thu 10/18/07	Exhibit H	Schmitt	100%																					

Project: CD Project First Five Years-A  
Date: Mon 4/28/08

Task		Milestone		Rolloled Up Task		Rolloled Up Progress		External Tasks		Group By Summary	
Progress		Summary		Rolloled 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 1/1/08 to 3/31/08	Planned Activity for 4/1/08 to 6/30/08
<b>East Watershed Projects</b>				
C-054-00	Eastern Regional - Contract 1--Pond Creek Force Main and Gravity Sewer to Eastern Regional WWTP	Darleen McGuire	Final punchlist items (streambank restoration) were addressed during this time frame.	All punchlist items will be completed.
C-075-00	Eastern Regional - Contract 3--Riley Force Main and Gravity Sewer to the ERWWTP	Darleen McGuire	Continued construction.	Continued construction.
C-076-00	Eastern Regional - Contract 4--Alex Licking Gravity Sewer & Force Main to Contract 1	Bob Wilson	Continued work on installing remaining gravity sewer and force main.	Complete work and put sput system into service
C-077-01	Eastern Regional - Contract 5--Sunset Force Main and Gravity Sewer	Jim Turner	Due to delays associated with environmental permitting, design plans were still under development during this quarter. During this period, geotech field work was completed and easement negotiations were underway.	Design plans scheduled to be completed with construction anticipated to commence in fall 2008.
C-079-00	Eastern Regional - Contract 7--Riley Road #2 Pump Station	Brandon Vatter	Continued construction.	Continued construction.
C-080-00	Eastern Regional - Contract 8--Alex-Licking and Sunset Pump Stations	Jim Turner	Continued construction. As of 3/31/08, the project was approximately 65% complete.	Project is anticipated to be completed by 6/30/08.
C-426-00 & 01	Eastern Regional Wastewater Treatment Plant	Chris Novak	Continued construction on the Sludge Processing Facilities and EQ storage.	The Sludge Processing Facilities and EQ storage are scheduled to be operational by April 11, 2008. The entire Water Reclamation Facility is scheduled to reach substantial completion on April 14, 2008. All work should be completed by July 31, 2008.
<b>West Watershed Projects</b>				
C-001-00	Western Regional Conveyance System to Western Regional WWTP	Brandon Vatter	Completed 90% design. Continued easement acquisition. Cost savings measures were identified at 90% design to reduce the project cost which requires additional time for design. In addition, the approval of the Regional Facilities Plan Update by KDOW has been delayed. Therefore, the project is now scheduled to be advertised for bid in August 2008. Continued to work with KDOW to have draft SPEAR and Regional Facilities Plan Update approved.	Continued design and easement acquisition.
C-002-00	Western Regional - Sunnybrook Sewer	Brandon Vatter	Continued design.	Continued design.
C-003-00	Western Regional - Frogtown Interceptor Sewer (from Sunnybrook Dr. to Frogtown Rd.)	Brandon Vatter	Continued design.	Continued design.
C-004-00	Western Regional - South Fork Gunpowder Interceptor Sewer and Rosetta Sewer	Brandon Vatter	Continued design.	Continued design.
C-005-00	Western Regional - Narrows Road Diversion Pump Station	Brandon Vatter	Continued design.	Continued design.
C-038-00	Western Regional - Gunpowder Interceptor Sewer	Bob Wilson	Contractor installed shoring system to protect properties from damage in the Ripple Creek Subdivision during the excavation of the 72 inch sanitary sewer. Excavation work was suspended due to weather conditions untill April 1, 2008.	Resume work on installing 72 inch gravity sewer and manholes.
C-039-00	Western Regional - Richwood Sewer and Force Main	Brandon Vatter	Continued design.	Continued design.
C-063-00	Western Regional - Turkeyfoot Industrial Road Force Main	Bob Wilson	Contractor elected to suspend construction activities untill spring due to weather conditions.	Complete construction of this section of Phase Two being installed as a betterment to the KTC road improvement project.

## Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Past Activity on Project from 1/1/08 to 3/31/08	Planned Activity for 4/1/08 to 6/30/08
C-414-02	American Sign Pump Station Rehabilitation	Jim Turner	Pump station was put in service on 1/7/08. Final punchlist was developed with minor construction items underway during this quarter.	Completion of punchlist items.
C-424-00	Western Regional Wastewater Treatment Plant	Chris Novak	Continued design.	Final construction plans and specifications should be complete by July 31, 2008. Still awaiting final approval from KDOW on the KPDES Discharge Permit. Project is currently scheduled to be bid in September 2008.
<b>Central Watershed Projects</b>				
C-414-16	Meyer Road Pump Station Rehabilitation	Jim Turner	Final punchlist was developed with minor construction items underway.	Completion of punchlist items.
C-414-43	Macke Pump Station Rehabilitation	Jim Turner	Final punchlist was developed with minor construction items underway.	Completion of punchlist items.
<b>North &amp; East Watershed Projects</b>				
C-475-00	Grit Chamber Projects	Bob Wilson	Contractor continued work on chamber, but due to high river levels for a long period of time, operations were suspended until river levels can allow work to proceed.	Complete construction of grit chamber and put structure into service.

**APPENDIX C:**  
***Recurring SSO Locations***

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## Recurring SSOs

No.	MHID	City	County
1	0020014	Silver Grove	Campbell
2	0050022	Fort Thomas	Campbell
3	0060001	Unincorp Campbell County	Campbell
4	0060002	Unincorp Campbell County	Campbell
5	0090009	Highland Heights	Campbell
6	0100001	Highland Heights	Campbell
7	0100002	Highland Heights	Campbell
8	0110010	Highland Heights	Campbell
9	0150023	Southgate	Campbell
10	0150058	Wilder	Campbell
11	0150063	Wilder	Campbell
12	0150064	Wilder	Campbell
13	0150065	Wilder	Campbell
14	0150069	Wilder	Campbell
15	0150351	Southgate	Campbell
16	0150356	Southgate	Campbell
17	0300008	Fort Thomas	Campbell
18	0410010	Fort Thomas	Campbell
19	0410011	Fort Thomas	Campbell
20	0410019	Fort Thomas	Campbell
21	0410036	Fort Thomas	Campbell
22	0410068	Newport	Campbell
23	0440074	Fort Thomas	Campbell
24	0530083	Newport	Campbell
25	0650025	Bellevue	Campbell
26	0650053	Bellevue	Campbell
27	0650098	Bellevue	Campbell
28	0860001	Wilder	Campbell
29	0860003	Wilder	Campbell
30	0860016	Wilder	Campbell
31	1040060	Independence	Kenton
32	1090069	Edgewood	Kenton
33	1110025	Erlanger	Kenton
34	1110067	Erlanger	Kenton
35	1110161	Erlanger	Kenton
36	1110294	Erlanger	Kenton
37	1160004	Crestview Hills	Kenton
38	1190007	Erlanger	Kenton
39	1220029	Erlanger	Kenton
40	1240008	Erlanger	Kenton
41	1280008	Erlanger	Kenton
42	1560016	Fort Mitchell	Kenton
43	1560019	Fort Mitchell	Kenton
44	1560074	Fort Mitchell	Kenton
45	1570100	Fort Mitchell	Kenton
46	1590006	Lakeside Park	Kenton
47	1600005	Lakeside Park	Kenton
48	1600009	Lakeside Park	Kenton
49	1600029	Lakeside Park	Kenton
50	1600049	Lakeside Park	Kenton
51	1600050	Lakeside Park	Kenton
52	1600059	Lakeside Park	Kenton
53	1600110	Lakeside Park	Kenton
54	1600113	Lakeside Park	Kenton
55	1610102	Fort Mitchell	Kenton
56	1610114	Fort Mitchell	Kenton
57	1610115	Fort Mitchell	Kenton
58	1620001	Fort Mitchell	Kenton
59	1630012	Crescent Springs	Kenton
60	1680001	Unicorp Kenton County	Kenton
61	1690043	Fort Wright	Kenton
62	1700025	Park Hills	Kenton
63	1730104	Fort Mitchell	Kenton
64	1730110	Bromley	Kenton
65	1760047	Edgewood	Kenton
66	1760048	Edgewood	Kenton

<b>No.</b>	<b>MHID</b>	<b>City</b>	<b>County</b>
67	1820014	Villa Hills	Kenton
68	1830017	Unincorp Boone County	Boone
69	1830020	Unincorp Boone County	Boone
70	1830067	Unincorp Boone County	Boone
71	1860108	Taylor Mill	Kenton
72	1870013	Covington	Kenton
73	1890001	Lakeside Park	Kenton
74	1890010	Lakeside Park	Kenton
75	1890011	Lakeside Park	Kenton
76	1900028	Cold Spring	Campbell
77	1920163	Cold Spring	Campbell
78	1950199	Fort Wright	Kenton
79	1960012	Crestview Hills	Kenton
80	2030097	Edgewood	Kenton
81	2090001	Elsmere	Kenton
82	2090026	Elsmere	Kenton
83	2110002	Elsmere	Kenton
84	2120001	Elsmere	Kenton
85	2120002	Elsmere	Kenton
86	2120041	Elsmere	Kenton
87	2130022	Villa Hills	Kenton
88	2150050	Crestview	Kenton
89	2160036	Fort Mitchell	Kenton
90	2280011	Unicorp Kenton County	Kenton
91	2280012	Unicorp Kenton County	Kenton
92	2290001	Crescent Springs	Kenton
93	2300123	Unicorp Kenton County	Kenton
94	2380001	Unincorp Boone County	Boone
95	2390002	Unincorp Boone County	Boone
96	2390006	Unincorp Boone County	Boone
97	2390008	Unincorp Boone County	Boone
98	2390762	Unincorp Boone County	Boone
99	1950PS1	Fort Wright	Kenton

**APPENDIX D:**

***Recurring SSO Revisions Transaction Database***

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**Recurring SSO Revisions  
Transaction Database**

CD MHID	New_MHID	Transaction Status	Transaction Date	Update Status	City	County
0690008	0690059	CSO	5/17/2007	CSO	Newport	Campbell
0010161		SSO	12/14/2007	Inactive/Removed	Melbourne	Campbell
0020034		SSO	12/14/2007	Inactive/Removed	Unicorp Campbell County	Campbell
0090002		SSO	12/14/2007	Inactive/Removed	Highland Heights	Campbell
0130064		SSO	12/14/2007	Inactive/Removed	Cold Spring	Campbell
0140113		SSO	12/14/2007	Inactive/Removed	Highland Heights	Campbell
0150016		SSO	12/14/2007	Inactive/Removed	Wilder	Campbell
0150090		SSO	12/14/2007	Inactive/Removed	Southgate	Campbell
0150315		SSO	12/14/2007	Inactive/Removed	Southgate	Campbell
0150320		SSO	12/14/2007	Inactive/Removed	Wilder	Campbell
0160007		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0160017		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0170003		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0200001		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0220010		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0230055		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0250003		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0260014		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0330009		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0340035		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0370002		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0410014		SSO	12/14/2007	Inactive/Removed	Fort Thomas	Campbell
0490001		SSO	12/14/2007	Inactive/Removed	Newport	Campbell
0490073		SSO	12/14/2007	Inactive/Removed	Newport	Campbell
0500003		SSO	12/14/2007	Inactive/Removed	Newport	Campbell
0520004		SSO	12/14/2007	Inactive/Removed	Newport	Campbell
0700004		SSO	12/14/2007	Inactive/Removed	Newport	Campbell
1130002		SSO	12/14/2007	Inactive/Removed	Erlanger	Kenton
1560034		SSO	12/14/2007	Inactive/Removed	Fort Mitchell	Kenton
1580034		SSO	12/14/2007	Inactive/Removed	Fort Mitchell	Kenton
1650063		SSO	12/14/2007	Inactive/Removed	Fort Mitchell	Kenton
1920291		SSO	12/14/2007	Inactive/Removed	Cold Spring	Campbell
2130024		SSO	12/14/2007	Inactive/Removed	Erlanger	Kenton
2150131		SSO	12/14/2007	Inactive/Removed	Cold Spring	Campbell
2150132		SSO	12/14/2007	Inactive/Removed	Cold Spring	Campbell
0090009		SSO	5/17/2007	added, not in CD list	Highland Heights	Campbell
0100002		SSO	5/17/2007	added, not in CD list	Highland Heights	Campbell
0150023		SSO	5/17/2007	added, not in CD list	Southgate	Campbell
0150058		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
0150063		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
0150064		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
0150065		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
0150069		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
0150351		SSO	5/17/2007	added, not in CD list	Southgate	Campbell
0150356		SSO	5/17/2007	added, not in CD list	Southgate	Campbell
0300008		SSO	12/14/2007	added, not in CD list	Fort Thomas	Campbell
0410011		SSO	5/17/2007	added, not in CD list	Fort Thomas	Campbell
0650025		SSO	1/1/2006	added, not in CD list	Bellevue	Campbell
0650053		SSO	1/1/2006	added, not in CD list	Bellevue	Campbell
0650098		SSO	1/1/2006	added, not in CD list	Bellevue	Campbell
0860001		SSO	1/1/2005	added, not in CD list	Wilder	Campbell
0860003		SSO	5/17/2007	added, not in CD list	Wilder	Campbell
1040060		SSO	4/14/2008	added, not in CD list	Independence	Kenton
1110161		SSO	4/14/2008	added, not in CD list	Erlanger	Kenton
1110294		SSO	4/14/2008	added, not in CD list	Erlanger	Kenton
1600009		SSO	5/17/2007	added, not in CD list	Lakeside Park	Kenton
1730104		SSO	4/14/2008	added, not in CD list	Fort Mitchell	Kenton
1830067		SSO	12/14/2007	added, not in CD list	Unincorp Boone County	Boone
1860108		SSO	4/14/2008	added, not in CD list	Taylor Mill	Kenton
1870013		SSO	4/14/2008	added, not in CD list	Covington	Kenton
1920163		SSO	12/14/2007	added, not in CD list	Cold Spring	Campbell
2110002		SSO	5/17/2007	added, not in CD list	Elsmere	Kenton
2120001		SSO	5/17/2007	added, not in CD list	Elsmere	Kenton
2130022		SSO	12/14/2007	added, not in CD list	Villa Hills	Kenton
2280012		SSO	12/14/2007	added, not in CD list	Unicorp Kenton County	Kenton

CD MHID	New_MHID	Transaction Status	Transaction Date	Update Status	City	County
2290001		SSO	4/14/2008	added, not in CD list	Crescent Springs	Kenton
2300123		SSO	12/14/2007	added, not in CD list	Unicorp Kenton County	Kenton
2390008		SSO	12/14/2007	added, not in CD list	Unincorp Boone County	Boone
2390762		SSO	12/14/2007	added, not in CD list	Unincorp Boone County	Boone
0300014	0300076	SSO-Eliminated	1/1/2005	SSO-Eliminated	Fort Thomas	Campbell
0300063		SSO-Eliminated	12/14/2007	SSO-Eliminated	Fort Thomas	Campbell
0310062		SSO	12/14/2007	SSO-Eliminated	Fort Thomas	Campbell
0550021		SSO-Eliminated	1/1/2004	SSO-Eliminated	Bellevue	Campbell
0550022		SSO-Eliminated	1/1/2004	SSO-Eliminated	Bellevue	Campbell
2250ALE		SSO	12/14/2007	SSO-Eliminated	Unicorp Campbell County	Campbell

**APPENDIX E:**  
***Wet Weather CSOs***

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## Wet Weather CSOs

No.	CSO ID	KPDES Permit #
1	1870194	KY0021466 - Outfall 79
2	1850158	KY0021466 - Outfall 76
3	1870193	KY0021466 - Outfall 78
4	1510199	KY0021466 - Outfall 67
5	1840130	To Be Permitted
6	0880081	KY0021466 - Outfall 36
7	0570089	KY0021466 - Outfall 16
8	0840116	KY0021466 - Outfall 27
9	0570090	KY0021466 - Outfall 17
10	0790086	KY0021466 - Outfall 29
11	1480187	KY0021466 - Outfall 30
12	0640090	KY0021466 - Outfall 24
13	1420142	KY0021466 - Outfall 51
14	0840111	To Be Permitted
15	0910068	KY0021466 - Outfall 37
16	0980081	KY0021466 - Outfall 48
17	1500131	KY0021466 - Outfall 66
18	0840112	To Be Permitted
19	1490132	KY0021466 - Outfall 65
20	0630061	KY0021466 - Outfall 83
21	0790084	KY0021466 - Outfall 31
22	0650090	KY0021466 - Outfall 26
23	0910065	KY0021466 - Outfall 38
24	0610071	KY0021466 - Outfall 21
25	0620075	KY0021466 - Outfall 23
26	0880082	KY0021466 - Outfall 35
27	0600104	To Be Permitted
28	0600097	KY0021466 - Outfall 19
29	0540009	To Be Permitted
30	0540044	To Be Permitted
31	0600094	KY0021466 - Outfall 18
32	0610072	KY0021466 - Outfall 20
33	0620077	KY0021466 - Outfall 22
34	0930105	KY0021466 - Outfall 41
35	1440209	KY0021466 - Outfall 56
36	1470093	KY0021466 - Outfall 63
37	1720109	KY0021466 - Outfall 73
38	1880091	KY0021466 - Outfall 80
39	0960063	KY0021466 - Outfall 45
40	1710116	KY0021466 - Outfall 68
41	0600096	To Be Permitted
42	0770096	KY0021466 - Outfall 28
43	0870079	KY0021466 - Outfall 34
44	0930104	KY0021466 - Outfall 40
45	0930106	KY0021466 - Outfall 39
46	1420144	KY0021466 - Outfall 52
47	1420145	KY0021466 - Outfall 53
48	1420147	KY0021466 - Outfall 55

No.	CSO ID	KPDES Permit #
49	1440206	KY0021466 - Outfall 61
50	1440212	KY0021466 - Outfall 58
51	1730263	KY0021466 - Outfall 74
52	0870078	KY0021466 - Outfall 33
53	1350155	KY0021466 - Outfall 49
54	1420141	KY0021466 - Outfall 50
55	1440205	KY0021466 - Outfall 60
56	1710114	KY0021466 - Outfall 69
57	1710119	KY0021466 - Outfall 70
58	1710121	KY0021466 - Outfall 71
59	1880090	KY0021466 - Outfall 81
60	0550024	To Be Permitted
61	0930102	KY0021466 - Outfall 43
62	0930103	KY0021466 - Outfall 42
63	0960064	KY0021466 - Outfall 44
64	0980073	KY0021466 - Outfall 46
65	0980080	KY0021466 - Outfall 47
66	1420146	KY0021466 - Outfall 54
67	1470089	KY0021466 - Outfall 62
68	1480185	To Be Permitted
69	1490172	KY0021466 - Outfall 64
70	1710124	KY0021466 - Outfall 72
71	0530110	To Be Permitted
72	0330100	KY0021466 - Outfall 12
73	0340050	KY0021466 - Outfall 14
74	0340051	KY0021466 - Outfall 13
75	0600095	To Be Permitted
76	0910066	To Be Permitted
77	0910067	To Be Permitted
78	1320093	To Be Permitted
79	0010001	To Be Permitted
80	1730259	KY0021466 - Outfall 75
81	0200069	KY0021466 - Outfall 11
82	0630054	To Be Permitted
83	0660085	To Be Permitted
84	1310100	To Be Permitted
85	1310106	To Be Permitted
86	1380054	To Be Permitted
87	1380083	To Be Permitted
88	1440204	KY0021466 - Outfall 59
89	1440207	To Be Permitted
90	0030031	KY0021466 - Outfall 10
91	0650100	KY0021466 - Outfall 25
92	0010047	To Be Permitted
93	0650008	To Be Permitted
94	1510098	To Be Permitted
95	0690008	To Be Permitted
96	1510133	To Be Permitted