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Environmental and Natural Resources Division

January 30, 2014

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

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

Subject: Quarterly Report 33

Civil Action No. 3:08-cv-00608-CRS

Attention Chief:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period October 1, 2013 – December 31, 2013. This report provides an overview of significant program elements, issues, and accomplishments pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

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

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

Sincerely

Brian Bingham. () Regulatory Services Director

cc: Greg Heitzman, PE

Paula Purifoy



Beneficial Use of Louisville's Biosolids www.louisvillegreen.com Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #33



Reporting Period: October 1, 2013 through December 31, 2013

Submitted To:

Kentucky Department of Environmental Protection

United States Environmental Protection Agency

United States Department of Justice

Submitted By:

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

Submittal Date:

January 30, 2014



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INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into an Amended Consent Decree with the Kentucky Department of Environmental Protection (KDEP) and the United States Environmental Protection Agency (EPA). The Amended Consent Decree was signed by United States District Judge Simpson on April 10, 2009, and filed in United States District Court, Western Division of Kentucky, Louisville Division, on April 15, 2009.

This is the thirty-second Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from October 1, 2013, through December 31, 2013. **The structure for this report is outlined as follows:**

Section 1: Program Activities for Nine Minimum Controls (NMC) - This section describes the data collected for NMC 2 – Maximization of Storage in the Collection System, and NMC 4 – Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC) that were active during the reporting period (October 1, 2013, through December 31, 2013).

Section 2: Program Activities for Sewer Overflow Response Protocol (SORP) - This section describes the training attendance records, overflow data, and overflow reconnaissance inspection routes related to SORP that were active during the reporting period (October 1, 2013, through December 31, 2013).

Section 3: Program Activities for Discharge Abatement Plans (DAP) - This section describes the schedule and status for projects related to the DAP by means of an updated Gantt chart for active DAP projects during the reporting period, and the anticipated projects and activities that are scheduled for continued compliance with the Amended Consent Decree.

Section 4: Program Activities for Public Outreach, Education, Notification and **Participation** - This section describes the activities related to public outreach that were active during the reporting period (October 1, 2013, through December 31, 2013).

Section 5: Capacity Management, Operations and Maintenance Report - The CMOM program activities and programmatic activities for WQTCs generating capital projects will be reported in a Gantt chart for the reporting period (October 1, 2013, through December 31, 2013), and include the schedule for activities planned for the next two reporting periods (January 1, 2014, through June 30, 2014), are included in this section for continued compliance with the Amended Consent Decree.

Section 6: Performance Overview - This section provides an accounting of unauthorized discharge occurrences from the separate sanitary sewer and combined sewer system and the estimated volumes of each. A discussion of the probable reductions in both unauthorized discharge points and the discharges from MSD's Combined Sewer Overflow (CSO) locations, identified in the Morris Forman Water Quality Treatment Center (WQTC) Kentucky Pollutant Discharge Elimination System (KPDES) permit, that are expected to result from MSD's projects and activities during the reporting period are also contained in this section. Performance information on Jeffersontown WQTC blending events, bypasses at WQTCs, DMR information, and phosphorus monitoring at WQTCs is included in this section.





SECTION 1: Program Activities for Nine Minimum Controls

1.1 Nine Minimum Controls Program Background

Per Paragraph 24.a. of the Amended Consent Decree, the Nine Minimum Controls (NMC) Compliance Report was initially submitted to EPA and KDEP on February 10, 2006. MSD received an approval letter, dated February 22, 2007, for the NMC Compliance Report. The approved NMC Compliance document can be viewed on the MSD Project WIN website <u>http://www.msdprojectwin.org</u>. Highlights of the NMC program implementation over this reporting period are outlined below.

1.2 NMC 2: Maximization of Storage in the Collection System

Continued operation of Phase 1 and Phase 2 of the Real Time Control system. During this reporting period, approximately 223.2 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See the figure at the end of this section for a detailed report.

The gates at SWOR2 have been placed in manual control due to what was diagnosed as a failure of the gate level sensors that are integral to the integration of this site in the RTC schema. The sensors were replaced in the reporting period, but the problem was not resolved due to the gate-closed proximity switches also being diagnosed as defective. Design activities will begin to move the level sensors, gate proximity switches and gate actuators above grade for operational and maintenance reliability during the next reporting period. Staff has determined the electronics keep failing do to their current location inside the pipe and their constant exposure to moisture

1.3 NMC 4: Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC)

The following charts illustrate performance in maximizing flow to the Morris Forman WQTC. The top of the chart shows rainfall inches per day. The middle part of the chart shows Morris Forman WQTC effluent flow, and secondary treatment flow. The difference between these is the secondary bypass flow. The bottom of the chart shows days with a CSO activation at the five CSOs in the vicinity of the Morris Forman WQTC (CSOs 015, 016, 191, 210, and 211). Note that the flow meter downstream from CSO 211 is known to be affected by backwater effects of the Ohio River and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different, so CSO activations at CSO 211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSOs. There are occasions in which a communications failure with telemetry has led to short-term gaps in the data. In addition, indications of rainfall and CSO activations are shown on the day they happened, but are not aligned with the exact time, so the effluent flow graph (which is tied to actual time) may show peaks that are offset from the indicated rain or CSO events by as much as 24 hours.

Sedimentation Basin No. 1 was out of service from October 1 through October 12. This reduced sustainable primary treatment capacity to approximately 260 MGD. During the wet





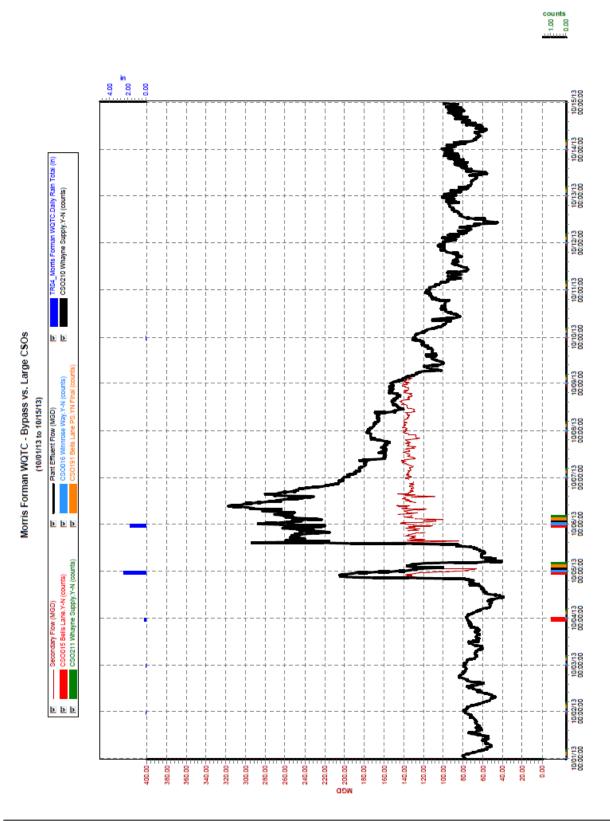
weather event of October 5 and 6 plant operations was able to take peak flows in excess of 300 MGD for short periods of time, while sustaining flows at about 260 MGD for the duration of the overflow event.

Other minor outages occurred in the East Headworks bar screens and grit chambers, but they did not impact capacity during wet weather events. The West Headworks was taken out of service for scheduled maintenance in November. The outage was scheduled during a dry weather period and no overflow events were impacted.

An engineer was selected to begin the design of upgrades to improve headworks performance and reliability as defined in the preliminary engineering report completed in a previous reporting period. A project kick-off meeting is scheduled for January 2014.

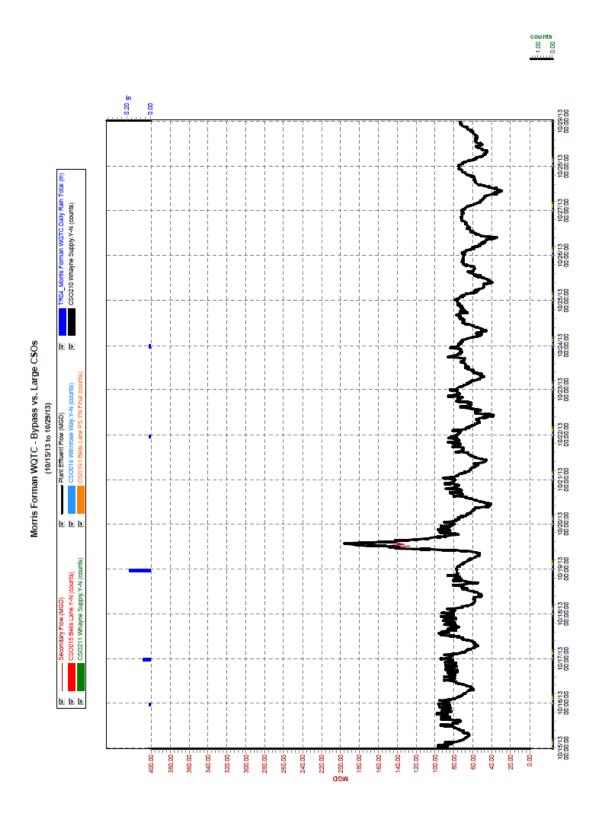






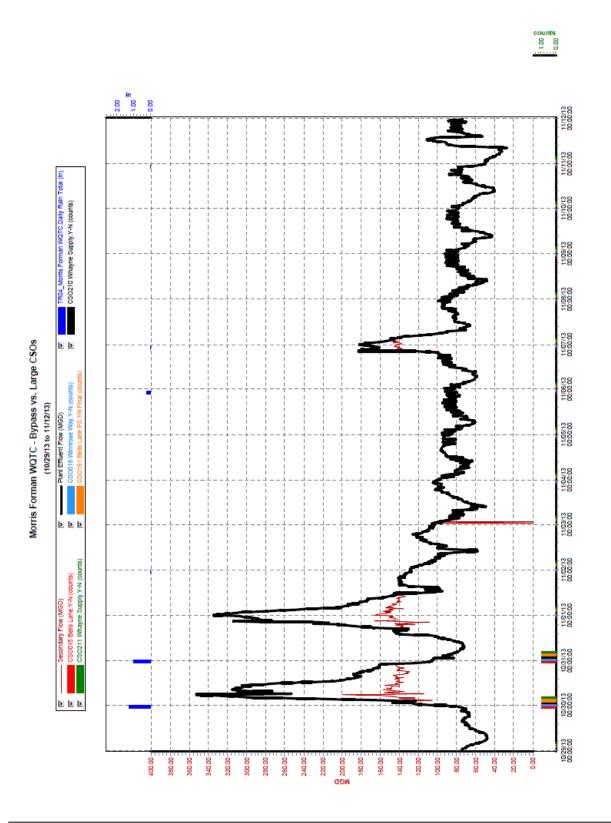






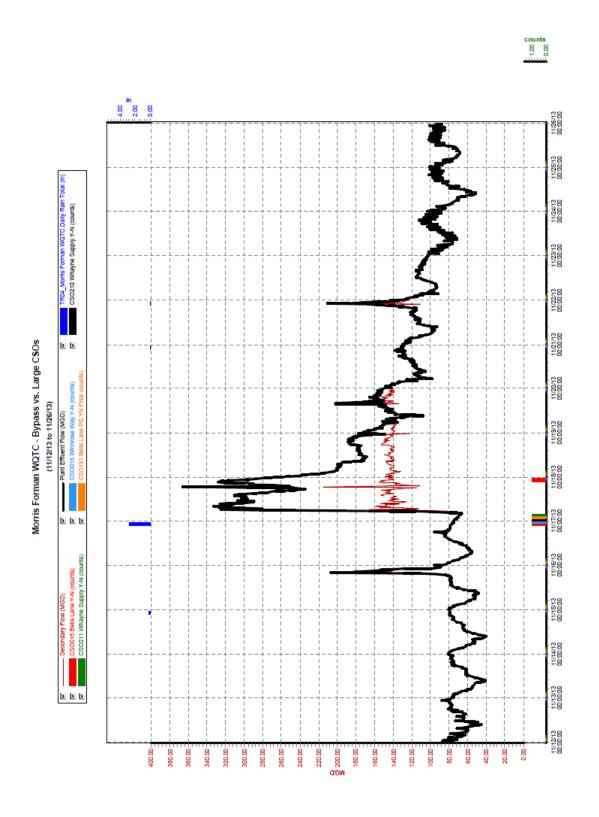






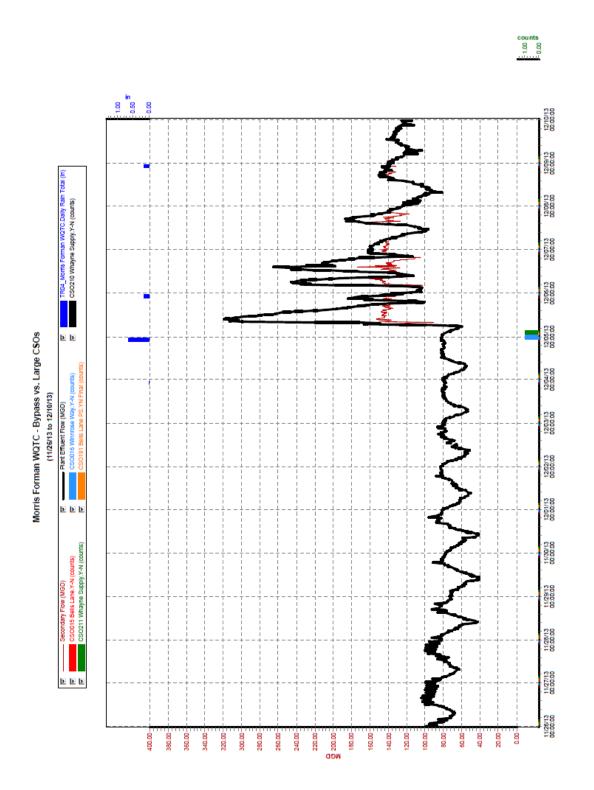






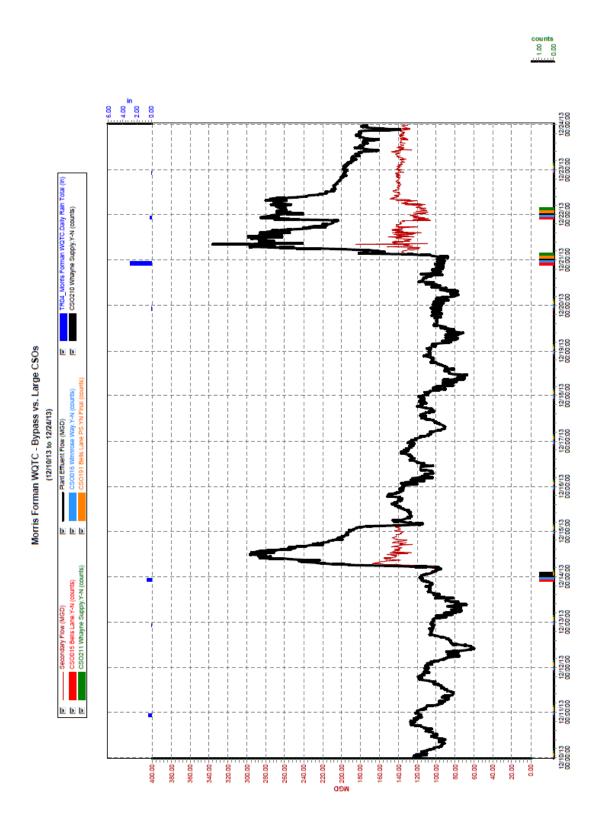






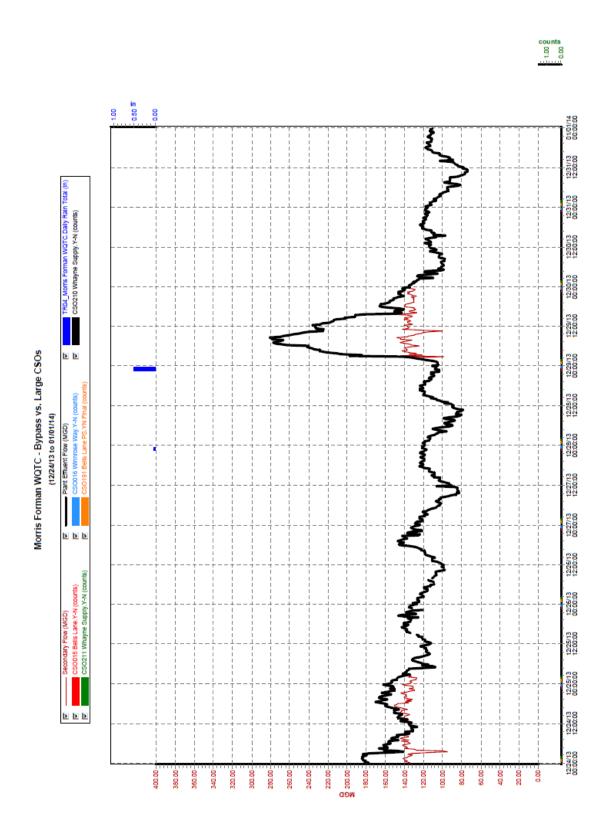














There were no KPDES permit violations at Morris Forman WQTC during October, November, or December 2013.

During this reporting period, the following activities were continued and/or completed:

- <u>Secondary By-Pass Flume Replacement</u> This project is complete. MSD will continue monitoring the flume modifications to ensure flow measurements are adequate for process control.
- <u>Wet Weather Operational Plan</u> Now that the secondary clarifier flow meter replacement project is complete and the Secondary By-Pass Flume Replacement project is also complete, Wet Weather SOP training will be initiated during the next reporting period.
- <u>RTC System-Wide Optimization Project</u> Staff developed draft control algorithms for integrating the Northern Ditch Diversion into the RTC system. In addition, staff continued to review the control algorithms for the Southeast Diversion Structure. The RTC optimization effort was expanded to include the Derek R Guthrie WQTC high rate treatment facility. It is expected that full integration in an automated mode will be delayed until operations staff have completed a period of manual operation to validate the control assumptions. Active control of these systems is required now that the new Southeast Diversion and the Highgate Springs Pump Station have both been taken off line and the Southeast Interceptor Relief project is completed, in accordance with the Interim Sanitary Sewer Discharge Plan. In addition the first two cells of the Buechel Basin project are now operational in accordance with the schedule of the SSDP. The control strategy for integrating all these sites was developed by December 2013, for implementation during calendar year 2014.





MSD

Louisville/Jefferson County Metropolitan Sewer District

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

P	eriod
From :	10/01/2013
To :	12/31/2013

		Wet Weather E									Rainfall Wet Weather Storage Volume (MG)					
Event Number	Start Date	End Date	Duration	Average* TRFD (in)	Ma TRFD (in)	Rain Gauge	SWPS SG Chamber (19.5)	SWOR2 (8.5)	Brady Lake and Executive Inn Storage (13.4)	Southern Outfall (6)	Ashland (1.1)	Ohio River Interceptor (9.1)	Sneads Branch (2.5)	Total	High River Levels	
2013-077	10-4-13 18:00	10-8-13 13:15	91:15:00	4.87	7.09	TR14	16.8	3.2	2.5	9.9	0.6	5.8	5.9	44.5	No	Very large storm cells t period (duration of 24 h gates in the open positi dysfunction due to high
2013-0808.81	10-29-13 20:40	11-1-13 10:20	61:40:00	2.84	1.57	TR12	26.6	0.9	3.2	8.0	1.2	7.1	2.4	49.4	No	Back-to-back storm cel SWOR2 was manually SWSG and Brady Lake
2013-086	11-17-13 1:45	11-19-13 18:20	64:35:00	2.59	2.83	TR12	14.0	0.0	1.9	7.3	D.1	6.5	5.7	35.5	No	Very large storm cells h rainfall). SWOR2 was n storage. SWSG and B
2013-090	12-5-13 4:00	12-6-13 11:00	31:00:00	0.83	1.00	TRIS	14.7	0.0	1.2	5.D	0.5	4.5	0.3	26.0	No	Moderate storm cells hi Its gates in the open po
2013-093	12-13-13 13:20	12-15-13 3:15	37:55:00	0.96	1.12	TR14	13.2	0.0	0.0	4.6	1.0	3.1	0.0	21.8	No	Moderate storm cells h Its gates in the open po
2013-095	12-21-13.0:35	12-24-13 20:55	92:20:00	2.66	3.22	TR04	16.8	0.0	12	7.5	0.5	6.8	2.4	35.2	ND	Very large storm with b between cells at MDS. of available storage. As mode during the event.
2013-096	12-28-13 22:30	12-29-13 18:30	20:00:00	0.49	0.60	TR15	6.2	0.0	0.5	1.9	0.1	2.3	0.0	10.9	Yes	Small storm cells homo gates in the open positi dysfunction operating n
TAL							108.1	4.1	10.4	44.2	3.9	35.9	16.6	223.2		



Project WIN Quarterly Report #33 October 1, 2013 – December 31, 2013



Comments

ells heterogeneously distributed over the service area (characteristic of a 25-year return 24 hours) in some parts of the service area). SWOR2 was manually controlled with its sosition and minimal available storage utilization. SWSG and Ashiand had a regulator high water levels, and Executive Inn and Brady Lake were manually operated.

cells homogeneously distributed over the service area. Dewatering between cells. ily controlled with its gates in the open position and minimal available storage utilization. ike were mainly manually operated.

ells homogeneously distributed over the service area (2-year return period for the 6-hour ras manually controlled, with its gates in the open position and minimal use of the available nd Brady Lake were partially manually operated.

s homogeneously distributed over the service area. SWOR2 was manually controlled, with position and minimal use of available storage. Brady Lake was manually operated.

is homogeneously distributed over the service area. SWOR2 was manually controlled, with n position and minimal use of available storage. Brady Lake was manually operated.

h back-to-back cells homogeneously distributed over the service area. Dewatering S. SWOR2 was manually controlled, with its gates in the open position and minimal use Ashiand was mainly in regulator dysfunction operating mode. SWSG was put in manual inf. Brady Lake was manually operated.

omogeneously distributed over the service area. SWOR2 was manually controlled, with its osition and minimal use of available storage.Ashland was mainly in the regulator ng mode. SWSG and Brady Lake were manually operated.



SECTION 2: Program Activities for Sewer Overflow Response Protocol

2.1 SORP Program Background

Per Paragraph 24.d. of the Amended Consent Decree, MSD initially submitted the Sewer Overflow Response Protocol (SORP) to EPA and KDEP on February 10, 2006, and received comments on March 13, 2006.

MSD completely revised the SORP documentation in 2011. The draft of this revised document was submitted for comment on August 22, 2011. Comments from the EPA and KDEP were received and addressed, and the document was resubmitted October 28, 2011. Final approval of the updated SORP document was received February 21, 2012. A hard copy of the approved document has been distributed to each division throughout MSD and a viewable, downloadable electronic version has been posted to the MSD Project WIN website www.msdprojectwin.org.

The current approved SORP document is now dated February 21, 2012, and can be viewed on the MSD Project WIN website <u>www.msdprojectwin.org</u>. Updates to the SORP document were submitted in August 2012, with confirmation of approvals on October 25, 2012. These updates are posted on the Project WIN website. The following activities were performed during this reporting period.

2.2 Overflow Management and Field Documentation

 Monitored approximately 157 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, Regulatory Services and Engineering staff documented 54 suspected or unauthorized discharges through route reconnaissance. Inspection routes were run during rain events as described in the following table:

Route Description	10/04/2013	10/05/2013	10/05/2013	10/05/2013	10/16/2013	10/16/2013	10/30/2013	10/30/2013	11/17/2013	11/17/2013	12/21/2013
ENGINEERING RAIN EVENT SSO INSPECTION ROUTE					Х	Х					
RS HIKES POINT RAIN EVENT SSO INSPECTION ROUTE			Х				Х		Х	Х	Х
RS JEFFERSONTOWN RAIN EVENT SSO INSPECTION ROUTE	Х	х					Х	х	Х		X
RS JEFFERSONTOWN/FERN CREEK RAIN EVENT SSO INSPECTION ROUTE	Х	Х					Х	Х	Х		Х
RS MIDDLE/MUDDY FORK RAIN EVENT SSO INSPECTION ROUTE				Х			Х		Х		Х

• Due to Capacity related issues, during this reporting period, MSD Metro Operations staff hauled 380,105 gallons of sewage. MSD also hauled due to other issues as indicated in the following table:







MSD Hauled Volumes	In Gallons (Oct	ober 1, 2013 - D	December 31, 2	013)
Problem	October	November	December	Total
LACK OF SYSTEM CAPACITY	366,101	164,300	167,600	380,105
POWER FAILURE		1,000		800
Grand Total	287,603	15,500	293,502	596,605

2.3 Staff Training and Communication

- Reviewed and updated the training documentation for the 2013 third quarter SORP training that included Completing the Overflow Reporting Form, Reporting Requirements and Data Entry.
- Commenced planning for the 2013 first quarter SORP training that will focus on Preparing, Monitoring and Response to Overflows.
- Conducted the following SORP Quarterly training sessions which were attended by 576 employees.

Date	Dept./Area	Location	tober 1, 2013 - December 31, 2013 Module	Attendees
11/4/2013	Administrative Staff	Main Office	Administrative Staff	19
11/6/2013	Ops. & Maint.	MFWQTP	Ops. & Maint.	15
	Ops. & Maint.	MFWQTP	Ops. & Maint.	42
11/6/2013	Ops. & Maint.	MFWQTP	Ops. & Maint.	12
11/8/2013	Fleet & CMF Admin.	CMF	Fleet & CMF Admin.	12
11/8/2013	Eng/RMS	CMF	Eng/RMS	31
11/12/2013	Administrative Staff	Main Office	Administrative Staff	24
11/20/2013	Ops. & Maint.	MFWQTP	Ops. & Maint.	7
11/20/2013	Ops. & Maint.	MFWQTP	Ops. & Maint.	8
11/20/2013	Ops. & Maint.	MFWQTP	Ops. & Maint.	8
11/22/2013	Fleet & CMF Admin.	CMF	Fleet & CMF Admin.	21
11/22/2013	Eng/RMS	CMF	Eng/RMS	31
11/26/2013	CMF Admin & IFP Unit	CMF	CMF Admin & IFP Unit	17
11/27/2013	Metro Ops. & Maint.	HCWQTP	Metro Ops. & Maint.	13
11/27/2013	Metro Ops. & Maint.	CCWQTP	Metro Ops. & Maint.	19
12/2/2013	CMF Admin & IFP Unit	CMF	CMF Admin & IFP Unit	20
12/4/2013	Metro Ops. & Maint.	DRGWQTP	Metro Ops. & Maint.	21
12/5/2013	Administrative Staff	Main Office	Administrative Staff	37
12/6/2013	IFP SORP Sups.	CMF	IFP SORP Sups.	24
12/10/2013	CMF Admin & IFP Unit	CMF	CMF Admin & IFP Unit	70
12/12/2013	Administrative Staff	Main Office	Administrative Staff	26
12/13/2013	IFP SORP Sups.	CMF	IFP SORP Sups.	35
12/17/2013	CMF Admin & IFP Unit	CMF	CMF Admin & IFP Unit	64
Total				576





SECTION 3: Program Activities for Discharge Abatement Plans

3.1 Integrated Overflow Abatement Plan (IOAP)

As a requirement of the Amended Consent Decree, per Paragraph 25, MSD is to prepare and submit for review and approval discharge abatement plans for the elimination of unauthorized discharges from the separate sanitary sewer system and the combined sewer system, the reduction and control of discharges from the CSO locations identified in the Morris Forman WQTC KPDES permit, and the improvement of water quality in the receiving waters.

The Final Sanitary Sewer Discharge Plan and the Final CSO Long Term Control Plan were submitted concurrently and certified on December 19, 2008, under the title of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

MSD submitted an IOAP modification request to EPA/KDEP on September 20, 2012, with partial approval granted via certified letter on October 25, 2012. The modified project package, program descriptions and progress, and updated supporting text are included in the revised IOAP, submitted to EPA/KDEP on June 14, 2013, with a follow-up submittal scheduled for January 17, 2014.

3.2 Sanitary Sewer Discharge Plan (SSDP)

The Sanitary Sewer Discharge Plan (SSDP) addresses the overflows and unauthorized discharges from the separate sanitary sewer system. Three separate plans have been submitted under this program as described below and outlined in Paragraph 25.a. of the Amended Consent Decree.

3.2.1 Updated Sanitary Sewer Overflow Plan Implementation

MSD prepared and submitted the Updated Sanitary Sewer Overflow Plan (SSOP) on February 10, 2006. This plan included an overview of the MSD sanitary sewer overflow abatement program and specific actions taken to reduce/eliminate overflows from the sanitary sewer system. This document included a list of the proposed improvements to be accomplished by December 31, 2008. Activities required under the Updated SSOP have been completed.

3.2.2 Interim Sanitary Sewer Discharge Plan

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

3.2.3 Final Sanitary Sewer Discharge Plan

MSD submitted for approval a Final Sanitary Sewer Discharge Plan (SSDP) on December 19, 2008, as Volume 3 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010. A revised SSDP was included in the IOAP revision, submitted June 14, 2013, with a





follow-up submittal scheduled for January 17, 2014.

- Prospect WQTC Elimination Projects Easement Status A total of 54 easements have been identified.
- Acquired 51 of these Prospect easements to-date. Details on the easement progress and status:
 - River Road Interceptor- 18 Easements acquired project under construction.
 - River Road Interceptor Phase 1A- 2 Easements acquired project under construction.
 - HC Pump Station- 2 Easements acquired project under construction.
 - HC Interceptor and FM Phase 1- 1 Easement acquired project under construction.
 - HC Interceptor and FM Phase 2- 3 Easements acquired project under construction.
 - HC FM Phase 3A- 1 Easement acquired project under construction.
 - HC FM Phase 3B- 22 Easements acquired project under construction.
 - Shadow Wood- 2 Easements in process, letters not sent project under design.
 - Hunting Creek North- 2 Easements acquired. 1 Easement in process, letter sent out- project in final design.

3.3 CSO Long Term Control Plan

The CSO Long Term Control Plan (LTCP) addresses the overflows and unauthorized discharges from the CSS. Two separate plans have been submitted under this program as described below and outlined in Paragraph 25.b. of the Amended Consent Decree.

3.3.1 Interim CSO Long Term Control Plan

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

This plan includes an overview of the MSD program, efforts taken to reduce/eliminate discharges from the CSS and the list of proposed improvements to be accomplished by December 31, 2008. All projects associated with this plan have been completed.

3.3.2 Final CSO Long Term Control Plan

MSD submitted for approval the Final CSO LTCP on December 19, 2008, as Volume 2 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010. A revised LTCP was included in the IOAP revision, submitted June 14, 2013, with a follow-up submittal scheduled for January 17, 2014.





3.3.3 Green Program Update

MSD continued program activities to provide incentives to private property owners to reduce the amount of impervious surface that drains to the combined sewer system. This program is outlined in the brochure at the following link:

http://www.msdlouky.org/pdfs/Green_Infrastructure_Incentives_Savings_Weba.pdf

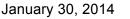
The green program incentives are being applied to reflect the values of green projects in CSO areas or regions based on the latest modeling results. This change in application ties incentives directly to overflow reductions in various CSO regions to promote green projects in the areas that provide the most value. Project opportunities are now optimized to best use available funding.

MSD continued development of a green infrastructure website for distribution of information on the programs, incentives, and value to customers.

Continued coordination with the green and MS4 program is on-going to optimize resources and regulations to improve water quality.

3.4 Activity Progress Chart

A Gantt chart showing the previous and Proposed IOAP Modification schedules (Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous) for the entire program is provided below.







ne	Scheduled 2009 IOAP Finish Completion		2009 2010 2011 2012 2013 2014 2015 2018 2017
AP SCHEDULE	31-Deo-24 31-Deo-24	31-Deo-24	
ERM CONTROL PLAN	01-Jan-21 31-Dec-20	31-Dec-20	
DEMONSTRATION PROJECTS	31-Dec-20 31-Dec-20	31-Dec-20	
EN INFRASTRUCTURE DEMONSTRATION PROJECTS REEN INFRASTRUCTURE DEMONSTRATION PROJEC	31-Dec-11 A 31-Dec-11	31-Deo-11 31-Deo-11	
EN INFRASTRUCTURE DEMONSTRATION PROJECT	31-Dec-20 31-Dec-20	31-Deo-11 31-Deo-20	
REEN INFRASTRUCTURE PROGRAM	31-Deo-20 31-Deo-20	31-Deo-20	
INFRASTRUCTURE PROJECTS	01-Jan-21 31-Deo-20	31-Dec-20	
123 DOWNSPOUT DISCONNECTION O 123 DOWNSPOUT DISCONNECTION	31-Dec-12 31-Dec-12 31-Dec-12 31-Dec-12	31-Dec-12 31-Dec-12	
ND GRINSTEAD DRIVE STORAGE BASIN	31-Deo-20 21-Deo-14	31-Deo-20	
4 AND GRINSTEAD DRIVE STORAGE BASIN	31-Deo-20 21-Deo-14	31-Deo-20	
140 INCREASE PIPE CONVEYANCE O 140 INCREASE PIPE CONVEYANCE	31-Dec-15 31-Dec-15 31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
206 SEWER SEPARATION	30-Dec-13 31-Dec-13	30-Dec-13	
206 SEWER SEPARATION	30-Deo-13 31-Deo-13	30-Deo-13	
IN HEIGHTS STORAGE BASIN TON HEIGHTS STORAGE BASIN	31-Dec-18 31-Dec-18 31-Dec-18 31-Dec-18	31-Dec-18 31-Dec-18	
*8 RUN WET WEATHER TREATMENT FACILITY AND OFF LINE		31-Dec-16	
Y'S RUN WET WEATHER TREATMENT FACILITY	31-Deo-16 31-Deo-14	31-Deo-16	
ILAND WHARF STORAGE BASIN RTLAND WHARF STORAGE BASIN	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19	31-Dec-19 31-Dec-19	
RY AVENUE AND MAIN STREET STORAGE BASIN	31-Dec-20 31-Dec-13	31-Dec-20	
RY AVENUE AND MAIN STREET STORAGE BASIN	31-Deo-20 31-Deo-13	31-Deo-20	
58 IN-LINE STORAGE AND GREEN INFRASTRUCTURE CONTRO 0 058 IN-LINE STORAGE AND GREEN	31-Deo-14 31-Deo-14 31-Deo-14 31-Deo-14	31-Deo-14 31-Deo-14	
FRASTRUCTURE CONTROLS	31-060-14 31-060-14	31-060-14	
HWESTERN PARKWAY STORAGE BASIN	31-Dec-18 31-Dec-18	31-Dec-18	
UTHWESTERN PARKWAY STORAGE BASIN STREET AND ROWAN STREET STORAGE BASIN	31-Dec-18 31-Dec-18 01-Jan-21 31-Dec-20	31-Dec-18 31-Dec-20	
STREET AND ROWAN STREET STORAGE BASIN	31-Deo-20 31-Deo-20	51-0-60-20	
THET AND HOWAN STREET STORAGE BASH TH STREET AND ROWAN STREET STORAGE BASI	31-Deo-20 N 31-Deo-20	31-Deo-20 31-Deo-20	
TRAL RELEF DRAIN IN-UNE STORAGE, GREIN INFRASTRUCTURE AND DISTRIBUTED STORAGE	01-Jan-21	31-Deo-18	
NTRAL RELIEF DRAIN IN-LINE STORAGE, GREEN RASTRUCTURE AND DISTRIBUTED STORAGE	01-Jan-21	31-Dec-18	
80 IN-LINE STORAGE AND GREEN INFRASTRUCTURE CONTRO D 160 IN-LINE STORAGE AND GREEN RASTRUCTURE CONTROLS	31-Deo-15 31-Deo-15 31-Deo-15 31-Deo-15	31-Dec-15 31-Dec-15	
STREET SEWER SEPARATION	31-Deo-12 31-Deo-12	31-Deo-12	·
IS STREET SEWER SEPARATION	31-Deo-12 31-Deo-12	31-Deo-12	
NORTHWESTERN PKY STORAGE BASIN	31-Dec-17 31-Dec-17 31-Dec-17 31-Dec-17	31-Dec-17 31-Dec-17	
IQUIN PARKWAY STORAGE BASIN	01-Jan-19 31-Dec-18	31-Dec-18	
ONQUIN PARKWAY STORAGE BASIN	31-Deo-18 31-Deo-18		
IN OUTHALL IN-LINE STORAGE (SOR 1) OUTHERN OUTFALL IN-LINE STORAGE AT 43RD ST.	31-Dec-18 31-Dec-18	31-Dec-18 31-Dec-18	
HIRN OUTRALL IN-LINE RETENTION (SOR 2)	01-Jan-19	31-Dec-18	
DUTHERN OUTFALL IN-LINE RETENTION AT 13TH ND WILSON AVE. (SOR 2) INGALE PUMP STATION REPLACEMENT AND STORAGE	01-Jan-19 31-Deo-15 31-Deo-16	31-Dec-18 31-Dec-15	
HTINGALE PUMP STATION REPLACEMENT AND	31-Dec-15 31-Dec-16 31-Dec-15 31-Dec-16	31-De0-15 31-De0-15	
DRAGE			
ITON ROAD AND PAYNE STREET STORAGE BASIN NGTON ROAD AND PAYNE STREET STORAGE BAS	31-Deo-20 31-Deo-20 31-Deo-20 31-Deo-20	31-Deo-20 31-Deo-20	
IGTON ROAD AND PAYNE STREET STORAGE BAS STREET AND BRECKENRIDGE ST STORAGE BASIN	31-Deo-17 31-Deo-17	31-Deo-20 31-Deo-17	
AN STREET AND BRECKENRIDGE ST STORAGE B	31-Deo-17 31-Deo-17	31-Deo-17	
195 STRUCTURAL MODIFICATIONS AND GREEN INFRASTRUCTU O 093 STRUCTURAL MODIFICATIONS AND GREEN		31-Dec-15	
8 DAM MODIFICATIONS AND GREEN	31-Deo-15 31-Deo-15 31-Deo-10 A 31-Deo-10	31-Deo-15 31-Deo-10	
108 DAM MODIFICATIONS	31-Dec-10 A 31-Dec-10	31-Dec-10	
AVENUE AND SPRING STREET GREEN INFRASTRUCTURE CO		31-Dec-16	
DRY AVENUE AND SPRING STREET GREEN RASTRUCTURE CONTROLS	31-Dec-16 31-Dec-16	31-Dec-16	
PUMP STATION PROJECTS STREET FLOOD PUMP STATION	31-Deo-14 31-Deo-14 30-Jun-13 30-Jun-13	31-Dec-14 30-Jun-13	
H STREET FLOOD PUMP STATION	30-Jun-13 30-Jun-13	30-Jun-13	



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	Scheduled 2009 IOAP Finish Completion		2009 2010 2011 2012 2013 2014 2015 2018 2017 2018
TH STREET FLOOD PUMP STATION	31-Dec-12 31-Dec-12	31-Dec-12	
4TH STREET FLOOD PUMP STATION H STREET FLOOD PUMP STATION	31-Dec-12 31-Dec-12 31-Dec-12 31-Dec-12	31-Dec-12 31-Dec-12	
TH STREET FLOOD PUMP STATION	31-Dec-12 31-Dec-12	31-Dec-12	
AWNEE FLOOD PUMP STATION	30-Jun-13 30-Jun-13	30-Jun-13	
HAWNEE FLOOD PUMP STATION	30-Jun-13 30-Jun-13	30-Jun-13	
TH STREET FLOOD PUMP STATION	31-Deo-14 31-Deo-14	31-Dec-14	
7TH STREET FLOOD PUMP STATION ARY SEWER DISCHARGE PLAN	31-Deo-14 31-Deo-14 31-Deo-24 31-Deo-24	31-Dec-14 31-Dec-24	
	31-Deo-24 31-Deo-24	31-Dec-24	
RGRASS CREEK MIDDLE FORK AREA OSE CREEK PUMP STATION	31-Deo-24 31-Deo-24	31-Dec-24	
SOOSE CREEK PUMP STATION	31-Dec-24 31-Dec-24	31-De0-24	
OOSE CREEK PS PH3 - DEVONDALE PS WW STORAGE	31-Dec-24	31-Dec-24	
GOOSE CREEK PS PH1 - DEVONDALE PS WW STOR/	31-Dec-24	31-Dec-24	
GOOSE CRK PS PH2 - PS & WET WEATHER STORAGE GOOSE CRK PS PH2 - PS & WET WEATHER STORAGE	31-Dec-24 31-Dec-24	31-Dec-24 31-Dec-24	
CHOR ESTATES-ANCHOR ESTS PS 1 & 2 PS ELIMINATIONS	31-Dec-16 31-Dec-16	31-Dec-16	
NCHOR ESTATES- ANCHOR ESTS PS 1 & 2 PS	31-Dec-16 31-Dec-16	31-Dec-16	
LIMINATIONS			
CHOR ESTATES - VANNAH PS ELIMINATION	15-Oct-11 A 31-Dec-13	31-Dec-13	
NCHOR ESTATES- VANNAH PS ELIMINATION R\$TBOURNE ISI INVESTIGATION & REHABILITATION	15-Oct-11 A 31-Dec-13	31-Dec-13	
URSTBOURNE ISI INVESTIGATION & REHABILITATION	27-Dec-11 A 31-Dec-11 27-Dec-11 A 31-Dec-11	31-Dec-11 31-Dec-11	
DLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE, AN	31-Deo-13 31-Deo-13	31-Dec-13	
VIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE, AND UMFLS DIVERSION 1 - BUECHEL BASIN	31-Deo-13 31-Deo-13	31-Dec-13	
IDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE, AN	31-Dec-23 31-Dec-23	31-Dec-23	
IDDLE FORK RELIEF INTERCEPTOR, WET WEATHER TORAGE, AND UMFLS DIVERSION 2 PS & WET	31-Deo-23 31-Deo-23	31-Dec-23	
AR CREEK AREA	31-Deo-24 31-Deo-24	31-Dec-24	
TLE CEDAR CREEK INTRECEPTOR IMPROVEMENTS	31-Deo-24 31-Deo-24	31-Dec-24	
ITTLE CEDAR CREEK INTRECEPTOR IMPROVEMENTS	31-Dec-24 31-Dec-24	31-Dec-24	
EWOOD INLINE STORAGE	31-Dec-23 31-Dec-23	31-Dec-23	
DLEWOOD INLINE STORAGE	31-Dec-23 31-Dec-23	31-Dec-23	
RDSTOWN RD PS IMPROVEMENTS	31-Deo-21 31-Deo-21	31-Deo-21	
ARDSTOWN RD PS IMPROVEMENTS NNING FOX PS ELIMINATION	31-Deo-21 31-Deo-21 05-Apr-10 A 31-Deo-10	31-Dec-21 31-Dec-10	
	05-Apr-10 A 31-Dec-10	31-Dec-10	
RMOUNT RD P& IMPROVMENTS	01-Jan-15 31-Dec-23	31-Dec-23	
AIRMOUNT RD PS IMPROVMENTS	31-Deo-14 31-Deo-23		
	24-Apr-12 A 24-Apr-12 A	31-Dec-23 31-Dec-23	
	01-Jan-15	31-Dec-15	
FAIRMOUNT STORAGE BASIN	01-Jan-15	31-Dec-15	
IBINED SEWER SYSTEM AREA	31-Dec-23 31-Dec-23	31-Dec-23	
ZELWOOD PS I&I INVESTIGATION & REHABILITATION	30-Jun-11 A 30-Jun-11	30-Jun-11	
	30-Jun-11 A 30-Jun-11	30-Jun-11	
NNE PUMP STATION I& INVESTIGATION & REHABILITATION ONNE PUMP STATION I&I INVESTIGATION &	30-Jun-11 A 30-Jun-11 30-Jun-11 A 30-Jun-11	30-Jun-11 30-Jun-11	
EHABILITATION	www.energevuent	or out 11	
MP TAYLOR SSES	08-Jul-11 A 31-Dec-11	31-Dec-13	
AMP TAYLOR SSES	08-Jul-11 A 31-Dec-11	31-Dec-13	
MP TAYLOR SANITARY SEWER #1A	31-Dec-12 31-Dec-13	31-Dec-13	
AMP TAYLOR SANITARY SEWER #1A	31-Dec-12 31-Dec-13	31-Dec-13	
MP TAYLOR SANITARY SEWER#18 AMP TAYLOR SANITARY SEWER #18	31-Dec-13 31-Dec-13 31-Dec-13 31-Dec-13	31-Dec-13 31-Dec-13	
MP TAYLOR SANITARY SEWER #2	31-Deo-13 31-Deo-13	31-Dec-13	
AMP TAYLOR SANITARY SEWER #2	31-Deo-13 31-Deo-13	31-Dec-13	
MP TAYLOR #3- SEWER REHABILITATION	31-Dec-17 31-Dec-17	31-Dec-17	
AMP TAYLOR #3- SEWER REHABILITATION	31-Dec-17 31-Dec-17	31-Dec-17	
MP TAYLOR #4-SEWER REHABILITATION & REPLACEMENT AMP TAYLOR #4-SEWER REHABILITATION & REPLAC	31-Deo-23 31-Deo-23 31-Deo-23 31-Deo-23	31-Dec-23 31-Dec-23	
	01-Apr-10 A 31-Dec-21	01-Apr-10	
	01-Apr-10 A 30-Jun-11	01-Apr-10	
	01-Apr-10 A 30-Jun-11	01-Apr-10	
	22-Jan-10 A 31-Deo-21	22-Jan-10	
SHBURTON PS IMPROVEMENTS AND DIVERSION	22-Jan-10 A 31-Dec-21	22-Jan-10	
			2 of 5



2020 14 Q1 Q2 Q3 Q4 Q1	2021 Q2Q3Q4	2022 Q1 Q2 Q3 Q4 0	2023 21 02 03 04 0	2024 1Q2Q3Q4
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			Date Date:	01-Jul-12
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Name	Scheduled 2009 IOAP	2012 IOAP	2009 2010 2011 2012 2013 2014 2015 2018 2017 2018 2019 2020 2021 2022 2023
	Finish Completion	Modification	
ITE CREEK AREA	31-Deo-24 31-Deo-24	31-Dec-24	22
MEADOW STREAM PS AND FORCE MAIN MEADOW STREAM PS AND FORCE MAIN	31-Dec-12 31-Dec-16 31-Dec-12 31-Dec-16	31-Dec-16 31-Dec-16	
KAVANAUGH RD PS IMPROVEMENTS	31-Dec-12 31-Dec-16 31-Dec-24 31-Dec-24	31-Dec-16 31-Dec-24	
KAVANAUGH RD PS IMPROVEMENTS	31-Deo-24 31-Deo-24	31-Dec-24	
FLOYDSBURG RD SSES, REHAB AND PUMP STATION UPGRADE	17-Deo-10 A 31-Deo-10	31-Dec-10	
FLOYDSBURG RD SSES, REHAB AND PUMP STATION UPGRADE	17-Dec-10 A 31-Dec-10	31-Deo-10	
ITERIM SSDP PROJECTS	27-Nov-12 27-Nov-12	27-Nov-12	
ISSDP BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT ISSDP BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT	29-Sep-10 A 27-Apr-11 29-Sep-10 A 27-Apr-11	27-Apr-11	
NECHWOOD VELASE SANDARY SEWER REPLACEMENT (WEST)			
BEECHWOOD VILLAGE SANITARY SEWER REPLACE!	29-Sec-10 A 29-Sec-10 A	27-Apr-11 27-Apr-11	
BECHWOOD VELAGE SANDAY SEWER REPLACEMENT (LAST)	29-Seo-10 A	27-Apr-11	
BEECHWOOD VILLAGE SANITARY SEWER REPLACE!		27-Apr-11	
SINKING FORK RELIEF SEWER	23-Dec-09 A 30-Dec-10	23-Dec-09	
SINKING FORK RELIEF SEWER	23-Dec-09 A 30-Dec-10	23-Deo-09	
850P DEREK R GUTHRIE WATER GUALITY TREATMENT CENTER ISSDP DEREK R GUTHRIE WATER QUALITY TREATMENT CENTER	30-Sep-12 31-Deo-11 30-Jul-12 31-Deo-11	31-Oct-12	
DEREK R GUTHRIE WOT WATHER TRACHEN FACILITY DEREK R GUTHRIE WOT C WET WEATHER TREATMENT FACILITY	20-May-12 A 20-May-12 A	31-Oct-12 31-Oct-12	
WOWTH WW ROW BOUS THE	30-Sep-12	31-Oct-12	
WCWTP: WW FLOW EQU & TMT	30-Sep-12	31-Oct-12	
DRGWQTC: BLOWER PACKAGE	03-Mar-11 A 03-Mar-11 A	31-Oct-12 31-Oct-12	
DRGWQTC, BLOWER PACKAGE DRWGC, WIT WATHIR IQUILIATION IASIN			
DRGWQTC: WET WEATHER EQUALIZATION BASIN	31-Jul-12 31-Jul-12	31-Oct-12 31-Oct-12	
SOP HIKES LANE INTERCEPTOR HIGHGATE SPRINGS PS ISSOP HIKES LANE INTERCEPTOR /HIGHGATE SPRINC	27-Nov-12 27-Nov-12 30-Oct-12 27-Nov-12	27-Nov-12	
HIGS FORT WERLEFICE	30-Nov-11 A	27-Nov-12	
HIKES POINT INTERCEPTOR	30-Nov-11.A	27-Nov-12	
HIGS FORT WITH CAPTOR PHASE 2 HIKES POINT INTERCEPTOR PHASE 2	27-Nov-12 27-Nov-12	27-Nov-12 27-Nov-12	
CNON A NEED RELEF	20-Nov-09 A	27-Nov-12	
CARSON & RIBBLE RELIEF	20-Nov-09 A	27-Nov-12	
HIRDS POINT NELLET BEFORE	31-Oct-12	27-Nov-12	
HIKES POINT RELIEF EFFORT	31-0d-12	27-Nov-12	
SSDP NORTHERN DITCH DIVERSION INTERCEPTOR	16-Feb-11 A 31-Jul-11	31-Jul-11	
ISSDP NORTHERN DITCH DIVERSION INTERCEPTOR	16-Feb-11 A 31-Jul-11		
NORTHERN DITCH DIVERSION INTERCEPTOR	16-Feb-11 A 16-Feb-11 A	31-Jul-11 31-Jul-11	
NORTHERN DITCH DIVERSION INTERCEPTOR	15-Feb-11 A	31-Jul-11	
NORTHERN DITCH DIVERSION INTERCEPTOR PH 2	16-Feb-11 A	31-Jul-11	
SDP SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR	30-Sep-12 27-Nov-12	30-Sep-12	
ISSDP SOUTHEAST DIVERSION STRUCTURE & INTER	28-Sep-12 27-Nov-12	12412-00-00	
SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR	12-May-12 A	12-Mav-12	
SOUTHEAST DIVERSION STRUCTURE & INTERCEPT		12-May-12	
SOUTHEAST DIVERSION STRUCTURE & MIRCEPTOR Press 2 SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR Phase 2	30-Sep-12 30-Sep-12	30-Sep-12 30-Sep-12	
FERSONTOWN AREA	31-Deo-22 31-Deo-22	31-Deo-22	
EFFERSONTOWN WOTC ELIMINATION	01-Jan-16 31-Dec-15	31-Dec-15	
JEFFERSONTOWN WOTC ELIMINATION	31-Dec-15 31-Dec-15	and some	
APPESING WAY AND A LINE AND A LIN	31-Dec-15	31-Dec-15	
JEFFERSONTOWN WQTC ELIMINATION	31-Dec-15	31-Dec-15	
JEFFERSONTOWN FORCE MAIN	31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
GAAND AVENUE PUMP STATION	31-Deo-15	31-Dec-15	
GRAND AVENUE PUMP STATION	31-Deo-15	31-Dec-15	
UPPER BLOWN ID NTRUFFOR	31-Dec-15	31-Dec-15	
UPPER BILLTOWN RD INTERCEPTOR BILTOWN RD INTERCEPTOR 55	31-Deo-15	31-Dec-15	
BILLTOWN RD INTERCEPTOR SS	01-Jan-16 01-Jan-16	31-Dec-15 31-Dec-15	
BLUDWN RD PS, FM & INT	31-Deo-12	31-Dec-12	
BILLTOWN RD PS, FM & INT	31-Dec-12	31-Deo-12	
CHENOWETH HILLS WOTC ELIMINATION & PS IMPROVEMENTS	31-Dec-15 31-Dec-15	31-Deo-15	
IN THE DESIGNATION OF THE DESIGNATION OF THE	2.		3 of 5 Date Date:
Approved 2009 IOAP Remaining Wo			





MSD Integrated Overflow Abatement Plan Implementation Schedule (01 Jan 2009- 31 Dec 2024)

	Finish Completion	Modification	
CHENOWETH HILLS WOTC ELIMINATION & PS ELIMINA	31-Deo-15 31-Deo-15	31-Dec-15	
DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	31-Deo-22 31-Deo-22	31-Deo-22	
DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVE	31-Deo-22 31-Deo-22	31-Dec-22	
RAINTREE & MARIAN CT PH1 - PS ELIMINATION RAINTREE & MARIAN CT PH1 - PS ELIMINATION	31-Deo-21 31-Deo-21 31-Deo-21 31-Deo-21	31-Dec-21 31-Dec-21	
RAINTREE & MARIAN CT PS ELIMINATION	31-Deo-21 31-Deo-21	31-Dec-21	
RAINTREE & MARIAN CT PS ELIMINATION	31-Deo-21 31-Deo-21	31-Dec-21	
MONTICELLO PS ELIMINATION	31-Deo-22 31-Deo-22	31-Deo-22	
MONTICELLO PS ELIMINATION KLONDIKE INTERCEPTOR	31-Dec-22 31-Dec-22	31-Dec-22	
KLONDIKE INTERCEPTOR	31-Dec-15 31-Dec-15 31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
MILL CREEK AREA	13-Apr-12 A 31-Dec-21	31-Deo-21	
8 HIVELY INTERCEPTOR	13-Apr-12 A 31-Dec-14	31-Deo-14	
SHIVELY INTERCEPTOR	13-Apr-12 A 31-Dec-14	31-Dec-14	
EAST ROCKFORD LANE PS RELOCATION	30-Mar-12 A 31-Deo-21	31-Deo-21	
EAST ROCKFORD LANE PS RELOCATION	30-Mar-12 A 31-Dec-21	31-Dec-21	
DHIO RIVER FORCE MAIN AREA	31-Deo-24 31-Deo-24	31-Dec-24	
MELLWOOD \$Y\$ 1 - MELLWOOD P\$ & FORCE MAIN MELLWOOD SYS 1 - MELLWOOD PS & FORCE MAIN	31-Dec-12 31-Dec-12 31-Dec-12 31-Dec-12	31-Dec-12 31-Dec-12	
MELLWOOD SYS 2 - WINTON & MOCKINGBIRD PS ELIM & PIPE UPGF	31-Deo-24 31-Deo-24	31-Dec-24	
MELLWOOD SYS 2 - WINTON & MOCKINGBIRD PS ELIM	31-Deo-24 31-Deo-24	31-Dec-24	
& PIPE UPGRADES			
DERINGTON CT PS // INVESTIGATION & REHABILITATION DERINGTON CT PS // INVESTIGATION & REHABILITATI	30-Mar-12 A 31-Mar-12 30-Mar-12 A 31-Mar-12	31-Mar-12 31-Mar-12	
PROSPECT WOTC ELIMINATIONS	31-Deo-15 31-Deo-15	31-Mai-12 31-Dec-15	
PROSPECT WOTC ELIMINATIONS	31-Dec-15 31-Dec-15	3106013	
HARROD'S CREEK PS & PM	31-Dec-15	31-Dec-15	
HARRODS CREEK PS & FM HARRODS CREEK INT	31-Deo-15	31-Dec-15	
HARRODS CREEK INT	31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
HARRODS CREEK INT PH 2	31-Deo-15	31-Deo-15	
HARRODS CREEK INT PH 2	31-Deo-15	31-Deo-15	
RIVER ROAD INT	31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
TIMBERLAKE & HUNTING CREEK S WORK BUM	31-Deo-15	31-Dec-15	
TIMBERLAKE & HUNTING CREEK S WQTC ELIM	31-Deo-15	31-Deo-15	
KEN CARLA WOTC BLM	31-Dec-15 31-Dec-15	31-Dec-15 31-Dec-15	
HARROS CREEK INT PH 3	31-Dec-15	31-Dec-15	
HARRODS CREEK INT PH 3	31-Deo-15	31-Deo-15	
SHADOW WOOD WWTP ELM SHADOW WOOD WWTP ELIM	31-Deo-15 31-Deo-15	31-Dec-15 31-Dec-15	
NHUNTING CREAK PS & PM	31-Dec-15	31-Dec-15	
N HUNTING CREEK PS & FM	31-Dec-15	31-Dec-15	
PROSPECT #3- ORFM SYSTEM IMPROVEMENTS	31-Deo-16 31-Deo-16	31-Deo-16	
PROSPECT #3 - ORFM SYSTEM IMPROVEMENTS	31-Dec-16 31-Dec-16	31-Dec-16	
OTHER PROJECTS	30-Deo-24 31-Deo-24	30-Dec-24	
CPE/CCP MODIFICATIONS TO WOTC CPE/CCP MODIFICATIONS TO WOTC	19-Dec-11 A 31-Dec-11 19-Dec-11 A 31-Dec-11	31-Dec-11 31-Dec-11	
IN REDUCTION PROGRAM	30-Deo-24 31-Deo-24	30-Dec-24	
II REDUCTION PROGRAM	30-Deo-24 31-Deo-24 30-Deo-24 31-Deo-24	30-Deo-24	
POND CREEK AREA	31-Deo-24 31-Deo-24	31-Dec-24	
LEE ANN WAY PUMP STATION IMPROVEMENTS	31-Dec-21 31-Dec-15	31-Dec-15	
LEE ANN WAY PUMP STATION IMPROVEMENTS	31-Dec-14 31-Dec-15		
LEA ANN WAY SANTARY SEWER // REHAB	31-Deo-21 31-Deo-21	31-Dec-15 31-Dec-15	
LEANING WAT SANTART SEWER IT REPAD	30-Mar-11 A	31-Dec-15	
LEE ANN WAY PS SYSTEM SSES	30-Mar-11 A	31-Deo-15	
LEE ANN WAY PH 2 KA	31-Deo-11 A	31-Dec-15	
LEE ANN WAY PH 2 ICA	31-Dec-11 A	31-Deo-15	
LEE ANN WAY SSR PH 1	31-Dec-14 31-Dec-14	31-Dec-15 31-Dec-15	
LEE ANN WAY SSR PH 2	01-Jan-15	31-Deo-15	
LEE ANN WAY SSR PH 2	01-Jan-15	31-Deo-15	
LEE ANN WAY INTERCEPTOR (/I REMAIL	31-Deo-13 31-Deo-13	31-Dec-15 31-Dec-15	
OUTER LOOP & CAVEN AREA PIPE UPGRADES	31-Dec-16 31-Dec-16	31-Dec-15 31-Dec-24	
	31-Dec-16 31-Dec-16	31-Dec-24	



9 2020 3 Q4 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	2022	2023 Q1 Q2 Q3 Q4	2024 Q1 Q2 Q3 Q4
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			Date Dat	e: 01-Jul-12



	N	ASD Integ	rated Overflow Abatement Plan Implementation Schedule (01 Jan 2009- 31 Dec 2024)
tivity Name	Scheduled 2009 IOAP Finish Completion		2009 2010 2011 2012 2013 2014 2015 2018 2017 2018 2019 01 02 03 04 01 02 03 00 00 00 00 00 00 00 00 00 00 00 00
EDSEL PS I/ INVESTIGATION & REHABILITATION	27-Sep-11 A 30-Sep-11	30-Sep-11	
EDSEL PS I/I INVESTIGATION & REHABILITATION	27-Sep-11 A 30-Sep-11	30-Sep-11	
CINDERELLAPS ELIMINATION	31-Dec-23 31-Dec-23	31-Deo-23	
CINDERELLA PS ELIMINATION	31-Deo-23 31-Deo-23	31-Deo-23	
GOVERNMENT CENTER P& ELIMINATION	01-Apr-11 A 31-Dec-24	31-Deo-24	
GOVERNMENT CENTER PS ELIMINATION	01-Apr-11 A 31-Dec-24	31-Deo-24	
AVANTI P8 ELIMINATION	28-Jul-09 A 31-Dec-10	31-Dec-10	
AVANTI PS ELIMINATION	28-Jul-09 A 31-Dec-10	31-Dec-10	
CHARLESWOOD INTERCEPTOR EXTENSION	31-Deo-22 31-Deo-22	31-Deo-22	
CHARLESWOOD INTERCEPTOR EXTENSION	31-Dec-22 31-Dec-22	31-Deo-22	
LANTANA PS // INVESTIGATION & REHABILITATION	29-Dec-11 A 31-Dec-11	29-Dec-11	
LANTANA PS I/I INVESTIGATION & REHABILITATION	29-Dec-11 A 31-Dec-11	29-Dec-11	
LEVEN PS ELIMINATION	31-Dec-22 31-Dec-22	31-Dec-22	
LEVEN PS ELIMINATION	31-Dec-22 31-Dec-22	31-Deo-22	
CAVEN AVENUE WW STORAGE	31-Dec-24 31-Dec-24	31-Dec-24	
CAVEN AVENUE PS ELIMINATION	31-Deo-24 31-Deo-24	31-Deo-24	
SMALL WWTP AREA	31-Dec-21 31-Dec-21	31-Deo-21	
RIDING RIDGE PS IMPROVEMENTS	31-Dec-14 31-Dec-14	31-Dec-14	
RIDING RIDGE PS IMPROVEMENTS	31-Deo-14 31-Deo-14	31-Dec-14	
LUCAS LN PS INLINE STORAGE	31-Dec-21 31-Dec-21	31-Deo-21	
LUCAS LN PS INLINE STORAGE	31-Deo-21 31-Deo-21	31-Dec-21	
ST. RENE RD PS INLINE STORAGE	31-Deo-21 31-Deo-21	31-Deo-21	
ST. RENE RD PS INLINE STORAGE	31-Dec-21 31-Dec-21	31-Deo-21	
LAKE FOREST PS IMPROVEMENTS	31-Dec-12 31-Dec-12	31-Deo-12	
LAKE FOREST PS IMPROVEMENTS	31-Dec-12 31-Dec-12	31-Deo-12	
GUNPOWDER PS INLINE STORAGE	31-Dec-21 31-Dec-21	31-Deo-21	
GUNPOWDER PS INLINE STORAGE	31-Dec-21 31-Dec-21	31-Deo-21	
FOX HARBOR INLINE STORAGE	31-Dec-21 31-Dec-21	31-Dec-21	
FOX HARBOR INLINE STORAGE	31-Dec-21 31-Dec-21	31-Dec-21	
FAIRWAY VIEW P8 IMPROVEMENT8	31-Deo-14 31-Deo-14	31-Dec-14	
FAIRWAY VIEW PS IMPROVEMENTS	31-Dec-14 31-Dec-14	31-Dec-14	
SOUTHEASTERN DIVERSION AREA	31-Dec-23 31-Dec-23	31-Deo-23	
PARKVIEW ESTATES I/ INVESTIGATION & REHABILITATION	28-Jun-11 A 30-Jun-11	30-Jun-11	
PARKVIEW ESTATES I/I INVESTIGATION & REHABILITA'	28-Jun-11 A 30-Jun-11	30-Jun-11	
SUTHERLAND INTERCEPTOR	31-Dec-23 31-Dec-23	31-Deo-23	
SUTHERLAND INTERCEPTOR	31-Dec-23 31-Dec-23	31-Dec-23	
BEARGRASS INTERCEPTOR REHABILITATION PH 2	14-Dec-10 A 31-Dec-10	31-Dec-10	
BEARGRASS INTERCEPTOR REHABILITATION PH 2	14-Dec-10 A 31-Dec-10	31-Dec-10	

Approved 2009 IOAP Remaining Work Completed Work

5 of 5



2020	2021	2022	2023 2024
04 01 02 03 04	01020304	01020304	2023 2024 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
		1	
		1	
		1	
		1	
			Date Date: 01-Jul-12



SECTION 4: Program Activities for Public Outreach, Education, Notification and Participation

4.1 Public Notification Program

MSD has developed a program aimed at notifying the community of the objectives of Project WIN and how to lessen the risks associated with coming into contact with sewage overflows.

4.2 **Public Education Programs**

MSD has developed a public education program aimed at disseminating information to the public on MSD's primary business functions with emphasis on wastewater, storm water and flood protection. Efforts continued to utilize various media outlets, including television, radio, magazines, and newspapers to serve as a conduit for circulating information to the public.

During the reporting period, MetroTV aired programs detailing the IOAP Public Input Meetings (with presentations on the IOAP revisions), and a rain barrel installation video.

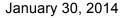
4.3 Public Outreach Programs

MSD has developed a public education program aimed at expanding the public's knowledge on MSD's primary business functions of wastewater, storm water and flood protection, with an emphasis on Project WIN Program elements.

4.3.1 IOAP Project and Program Meetings

MSD facilitates meetings for the Wet Weather Team (WWT), and the public to review regulatory commitments, update progress on projects and initiatives, and to gather public input on efforts. During the reporting period, MSD facilitated and planned for the following meetings:

- Facilitated an IOAP meeting on November 5, 2013, at Dunn Elementary School (2010 Rudy Lane) to discuss the proposed IOAP 2012 Modification, general project updates and updates to the Logan Street Basin, the Ohio River Force Main/Muddy Fork Interceptor, and the in-line storage/green projects at CSOs 093, 140, and 160.
- Facilitated a WWT meeting on November 20, 2013, at the Main Office of MSD. Topics included the IOAP Modification, Green Program update, and re-branding efforts.
- Planned public meetings in 2014 to discuss and receive comments on upcoming projects in the IOAP 2012 Modification and upcoming project planning efforts.







SECTION 5: Capacity Management Operations and Maintenance Report

Per Paragraph 24.c of the Amended Consent Decree, the Capacity Management Operations and Maintenance (CMOM) Self Assessment Report was submitted to EPA and KDEP on February 10, 2006. MSD received a letter of approval on August 22, 2006. The approved CMOM document can be viewed on the MSD Project WIN website <u>www.msdprojectwin.org</u>.

The primary objectives of CMOM are as follows:

Capacity – Ensuring that adequate wet and dry weather capacity is maintained in existing and new infrastructure

Management – Implementing programs in support of operations and maintenance activities required to ensure KPDES permit compliance and promote public health by remedying design, construction and operational deficiencies; training staff; and performing activities in a safe manner

Operations – Implementing written standard operating procedures to operate system components as designed to meet permit requirements

Maintenance – Implementing systematic, comprehensive asset maintenance and rehabilitation programs to prevent overflows, maximize system reliability and ensure system sustainability

Although the program implementation deadlines from the CMOM Self Assessment Report were previously met, MSD continued to enhance the activities listed below during this reporting period. Highlights of the CMOM program implementation over this reporting period are outlined below.

5.1 Management Programs

M-E-9 Infrastructure Rehabilitation

Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.

M-E-10 System Capacity Assurance Program (SCAP)

A current copy of the SCAP Credit Balance is included as **Appendix D**.

5.2 **Operations Programs**

<u>O-A-1 Pump Station Operations Programs (Routine Operating Programs)</u> Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.

O-A-2 Pump Station Operations Programs (Emergency Operating Programs)

Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.





5.3 Comprehensive Performance Evaluations and Composite Correction Plans (CPE/CCP)

Per requirements of MSD's 2009 Amended Consent Decree, MSD implemented a Comprehensive Performance Evaluation (CPE) and Composite Correction Plan (CCP) program for the District's water quality treatment centers (WQTCs). Although the IOAP CPE assessments defined specific WQTC improvements to be completed by December 31, 2011, MSD will continue to implement CPE/CCP activities as part of the District's CMOM Program. This section will list such activities per WQTC as they occur each reporting period and will be outlined below.

5.3.1 Hite Creek Water Quality Treatment Center

During this reporting period, MSD finalized the alternative analysis for both the collection and treatment systems in the area and held a public meeting on December 10, 2013 for interested customers in the Hite Creek WQTC service area. MSD presented alternatives to the expansion of the Hite Creek WQTC to the customers who attended the meeting. During the next reporting period, MSD will be reviewing the final draft version of the Facilities Plan Update prior to submitting it the Kentucky Division of Water for review and approval.

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule.**

5.3.2 Floyds Fork Water Quality Treatment Center

During this reporting period, the FFWQTC was in full operation, able to accept the additional flow from upstream customers. The contractor completed the site restoration. MSD identified outstanding issues that the contractor must address before considering the project at final completion. During the next reporting period, MSD expects that the project will reach final completion. The expansion project provides an average daily design capacity of 6.5 MGD.

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule.**

5.3.3 Derek R. Guthrie Water Quality Treatment Center

During this reporting period, MSD has continued working on the Facilities Plan Update with the alternative analysis finalized and exhibits revised along with preparing an internal review of the document. During the next reporting period, the draft document will be reviewed by MSD staff and project schedule will be updated.

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.4 Cedar Creek Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.





5.3.5 Prospect Area Water Quality Treatment Center Updates

Submitted the elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood), to EPA and KDEP on March 31, 2009. Received approval of this plan on September 24, 2009, and work is proceeding on the projects defined in the IOAP. See **Section 3 – Program Activities for Discharge Abatement Plans** for an update on the design and construction of the projects that make up the elimination plan for the Prospect Area WQTCs.

5.3.5.1 Timberlake Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.5.2 Hunting Creek North Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.5.3 Hunting Creek South Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.5.4 Ken Carla Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.5.5 Shadow Wood Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.6 Jeffersontown Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.7 Starview Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.8 Berrytown Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.9 Chenoweth Hills Water Quality Treatment Center

CMOM related capital projects will be provided in the schedule provided as **Section 5.4 – CMOM Activity Schedule**.





5.3.10 Other Water Quality Treatment Centers

CMOM related capital projects will be provided in the schedule provided as **Section 5.4 – CMOM Activity Schedule**.

- <u>McNeely Lake WQTC</u> The McNeely Lake Sanitary Sewer and Force Main project is currently in construction phase and is scheduled for completion in fall 2014. This gravity portion is approximately 75% of the total length of gravity line required to eliminate the McNeely Lake WQTC. A private developer is responsible for extending the remaining gravity sewer through a future residential development to within 500' of the McNeely Lake WQTC. Once the private development plans are finalized, MSD will begin design of the remaining gravity portion to eliminate the WQTC. MSD anticipates eliminating McNeely Lake WQTC prior to December 31, 2015, but is dependent on the private developer portion being completed.
- <u>Silver Heights WQTC</u> Construction is in progress. It is anticipated that construction will be complete and the Silver Heights WQTC will be off-line by June 30, 2014.
- <u>Bancroft WQTC</u> The scope of this project has been modified to a 0.33 MGD Pump Station and 0.25 MG Storage Basin. This change is due to the elimination of the nearby Devondale Pump Station which is part of the IOAP. Design of this project is ongoing. During the next reporting period, it is anticipated that construction will begin in summer 2014 and the Bancroft WQTC and Devondale Pump Station will be off-line prior to December 31, 2015.
- <u>Glenview Bluff</u> Design of this project has been completed and is advertised for bidding. During the next reporting period, it is anticipated that construction will begin in spring 2014 and the Glenview Bluff WQTC will be off-line in spring 2015.

5.4 CMOM Activity Schedule

CMOM capital project milestones for the period of October 1, 2013, through December 31, 2013, as well as a look-ahead for the period of January 1, 2014, through June 30, 2014, are provided in the schedule below.





ID .	Activity Name	Physical % Start	Finish				013				2014	
		Complete	45.144.45	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	M
MOM FY ANNU	AL REPORT COMMITMENTS FINAL	26-Mar-12 A	15-Jul-15									
M-E-9 Infrastruct	ture Rehabilitation	01-Jun-12A	15-Jul-15									
St Matthews Inter	ceptor I/I Rehabilitation Project (H12059)	23-Aug-12 A	23-Aug-13 A									
A2960	Warranty	100% 23-Aug-12 A	23-Aug-13 A									
Annual I/I FY 12 Pr	roject (H09205)	01-Mar-13 A	01-Mar-14									
A5080	Warranty	50% 01-Mar-13 A	01-Mar-14		-				+	1	<u> </u>	
Annual I/I FY13 Pr	oject (H09206)	19-Nov-12 A	02-Jan-15									
A5090	Contract Administration	30% 19-Nov-12 A	31-Dec-13									
A5570	Camp Taylor 4	90% 15-Dec-12 A	01-Nov-13					¢.				
A5590	Stonybrook	100% 01-Mar-13 A	01-Oct-13 A									
A5630	5th Street Interceptor Cleaning	100% 01-May-13 A	01-Jul-13 A									
A5620	Pike Alley CIPP	85% 01-Jun-13A	01-Nov-13					j				
A5600	Middle MH WT Lids	25% 01-Sep-13 A	01-Nov-13					į.				
A5100	Warranty	0% 02-Jan-14*	02-Jan-15								<u> </u>	<u> </u>
Les Ann Way Inter	ceptor I/I Rehabilitation Project (H12064)	04-Jun-13A	04-Jun-14									
A3040	Warranty	10% 04-Jun-13A	04-Jun-14					i			<u>i</u>	<u> </u>
Lea Ann Way East	- Stonybrook Rehabilitation Project (C08433)	15-Dec-12 A	01-Nov-14									
A3910	Construction	100% 15-Dec-12 A	01-Oct-13 A									
A4020	Warranty	0% 01-Nov-13*	01-Nov-14						1		<u>.</u>	<u>_</u>
Lake Forest Sanita	ry Sewer Rehabilitation Project (H11303)	01-Nov-12 A	31-Aug-14									
A3190	Construction	100% 01-Nov-12 A	30-Aug-13 A									
A3370	Warrany	8% 01-Sep-13 A	31-Aug-14					!	<u>i</u>		<u>i</u>	
Camp Taylor SSR F	Phase I Project (H09407)	21-Sep-12 A	21-Sep-13A									
A3680	Warranty	100% 21-Sep-12 A	21-Sep-13A		1	i						
	anitary Sewer Rehabilitation Project (H11311)	15-Jul-13 A	23-Sep-14									
A3210	Ad	100% 15-Jul-13 A		•								
A3220	Bid Open	100% 06-Aug-13 A			•							
A3230	Award	100% 26-Aug-13 A			•							
A3240	Construction	5% 23-Sep-13 A	23-Sep-14		•						!	<u> </u>
	Sanitary Sewer Rehabilitation Project (H11305)	30-Jul-13 A	30-Apr-14			_						1
A4890	Ad	100% 30-Jul-13 A										
A4900	Bid Open	100% 03-Sep-13 A										
A4920	Award	100% 23-Sep-13 A				· .						
A4910	Construction	0% 01-Nov-13*	30-Apr-14			•					<u> </u>	<u> </u>
		01-Dec-12 A	01-Nov-14		1						1	1
A3960	Fegenbush Rehabilitation Project (C08433) Construction	100% 01-Dec-12 A	01-Oct-13 A									
A3960 A4010	Warranty	0% 01-Nov-13"	01-Nov-14			1	-		1		<u> </u>	1
	-	0% 01-Nov-13 05-Oct-12 A	01-Nov-14						1		1	1
	- Fem Creek Rehabilitation Project (C08433)	100% 05-Oct-12 A			<u> </u>		_		1			1
A4160 A5690	Construction		01-Oct-13 A 01-Nov-14		1	!			I		<u> </u>	1
	Warranty	0% 01-Nov-13*			1				!		!	!
	- Picadilly Rehabilitation Project (C08433)	15-Dec-12 A	31-Aug-13A			J						
A4260	Construction	100% 15-Dec-12 A	31-Aug-13A		!							
	vab Project (H11304)	22-Jul-13 A	31-Jan-14									
A5280	Award	100% 22-Jul-13 A		•				<u> </u>	<u> </u>			
A5290	Construction	65% 03-Sep-13 A	31-Jan-14					:	:		4	
	otor Rehab Project (H09207)	01-May-13 A	01-Nov-14		<u> </u>							
A5360	Design	100% 01-May-13 A	31-Aug-13A				-					
A5370	Ad	0% 15-Oct-13"					•				<u> </u>	





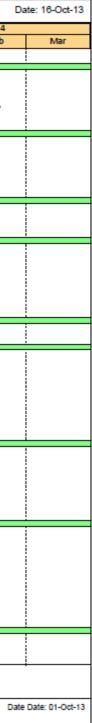
Luc Competity Add Aug Sapp Oct Nov Dec Jam Pelb ASS0 Auad On 10-0e17 0 0 10-0e17 0 <t< th=""><th>D</th><th>Activity Name</th><th>Physical % Start</th><th>Finish</th><th></th><th></th><th>20</th><th>13</th><th></th><th></th><th></th><th>2014</th><th></th></t<>	D	Activity Name	Physical % Start	Finish			20	13				2014	
AB30 Aasi Di 10-10-17 AB30 Contruction Di Labori 7 Di Labori 7 A440 Contruction Di Labori 7 Di Labori 7 A450 Addition Di Labori 7 Di Labori 7 A570 Addition Di Labori 7 Di Labori 7 A570 Addition Di Labori 7 Di Labori 1 A570 <t< th=""><th></th><th></th><th>Complete</th><th></th><th>Jul</th><th>Aug</th><th>Sep</th><th>Oct</th><th>Nov</th><th>Dec</th><th>Jan</th><th>Feb</th><th>N</th></t<>			Complete		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	N
A460 Contractorio 05 05-047-14 0-149-14 A563 Octamination 050-047-14 0-149-14 0-149-14 A563 Contractorio 05-049-14 0-149-14 0-149-14 Store Contractorio 05-049-14 0-149-14 0-149-14 A563 GO open 050-051-14 0-169-14 0-169-14 A563 GO open 050-051-14 0-169-14 0-169-14 A563 Advini 050-051-14 0-169-14 0-169-14 A573 Amand 050-051-14 0-169-14 0-169-14 0-169-14 A573 Amand 050-051-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14 0-169-14	A5380	Bid Open	0% 15-Nov-13*						•				
Browne shake hysep (19123) Object 10 Object 10 <thobject 10<="" th=""> Object 10 <thobject 10<<="" td=""><td>A5390</td><td>Award</td><td>0% 15-Dec-13*</td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td></thobject></thobject>	A5390	Award	0% 15-Dec-13*							•			
Adde Design 100% 0-10+13.4 01-09-13.4 Adde Construction 06 14-28-14 15-48-14 Strice Strice 05-10-14-16 15-48-14 Adde Construction 06 15-28-14 15-48-14 Adde Construction 06 15-28-14 15-48-14 Adde 060 0pm 000 0pm 10-08-14 Adde 000 0pm 000 0pm 10-08-14 Adde 000 0pm 10-08-14 10-08-14 Adde 050 0pm 050 0pm 0-09-14 Adde 0-09-17 10-08-14 10-08-14 Adde	A5400	Construction	0% 15-Jan-14"	01-Nov-14								<u> </u>	<u>.</u>
A500 Construction 05 (49-154) 15 (49-154) Source Match Propert (191112) 05 (49-154) 05 (49-154) 05 (49-154) A550 Construction 05 (49-154) 05 (49-154) 05 (49-154) A550 Construction 05 (49-154) 05 (49-154) 05 (49-154) A560 Advant 05 (49-154) 10-06-15 06 (49-154) A560 Construction 05 (49-154) 10-06-15 06 (49-154) A570 Advant 05 (49-154) 10-06-15 06 (49-154) A570 Construction 05 (49-164) 30-06-13 A570 Advant 05 (49-164) 30-06-13 A570 Advant 05 (49-164) 30-06-13 A100 Panon 05 (49-164) 30-06-13 A100 Panon 05 (49-164) 30-06-13 A110 Panon 55 (49-164) 30-06-13 A210 P	Berrytown Rehab	Project (H11299)	01-Jul-13 A	15-Jun-14									
Service state hope(r (1121) 0.949/91/A	A5460	Design	100% 01-Jul-13A	01-Sep-13A			ļ.						
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A580 Construction 00 154-0-14 31-0-14 A5420 Ad 100 2-A-0-14 31-0-14 A5430 Bit Open 00 1-0-14 31-0-14 A5430 Aara 01 1-0-14 31-0-14 A5430 Aara 01 1-0-14 31-0-14 A5430 Construction 01 1-0-14 31-0-14 A5430 Construction 05 1-0-14 31-0-14 A5700 A 000 pen 05 1-0-14 31-0-14 A5700 Construction 05 1-0-14 31-0-14	Starview Rehab Pr	roject (H11312)	01-Aug-13 A	15-Jul-15									
Comp Revix Par 3 Bable Process (19921) 30-94-91.4 A420 A A430 BU Open 1005 00-04-14 A530 BU Open 1005 00-04-14 A540 Aard 1005 00-04-14 A540 Aard 1005 00-04-14 A540 Construction 04 14-00-11 A570 Aard 1005 25-09-14 A5710 BU Open 05 05-06-14 A5720 Aard 05 25-06-14 A5720 Aard 05 25-06-14 A5720 Construction 05 10-06-14 A5720 Construction 05 10-06-14 A1710 Parming 05 10-06-14 A1710 Parming </td <td>A5510</td> <td>Design</td> <td>90% 01-Aug-13 A</td> <td>01-Nov-13</td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td> <td></td>	A5510	Design	90% 01-Aug-13 A	01-Nov-13					ļ				
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AA30 B0 open 100% 01-00113	Camp Taylor Area	3 Rehab Project (H09218)		31-Dec-14									
A450 Avard Optimum 51 Lehone 1/F 3 - Doen 1/4 A450 Construction 10 (bio 2-56; 1) A 01 (Dio 2-56; 1) A A700 M Dio Optimum 00 (bio 2-50; 1) A A7210 Bit Optimum 00 (bio 2-50; 1) A 01 (bio 2-50; 1) A A7220 Award 00 (bio 1-0; 1) A 01 (bio 2-50; 1) A 01 (bio 2-50; 1) A A7230 Construction 05 (bio 0-1); 1 01 (bio 2-50; 1) A 01 (bio 2-50; 1) A A7370 Award 05 (bio 0-1); 1 01 (bio 2-50; 1) A 01 (bio 2-50; 1) A 01 (bio 2-50; 1) A A7370 Award 05 (bio 0-1); 1 01 (bio 2-50; 1) A 01 (bio	A5420	Ad	100% 20-Aug-13 A			•							
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Ammo AF10 AF12 Argent (H1414) 32-269:13 A 01-08-14 AF10 Bit Open 0% 15-06:13 - <td>A5440</td> <td>Award</td> <td>0% 14-Nov-13*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>	A5440	Award	0% 14-Nov-13*						•				
AF700 Adv 100% 3-26-91-3A AF710 BE Open 954 (5-0cH 37') AF720 Austin 956 (5-0cH 37') AF720 Construction 956 (6-10-2cH 37') AF720 Parning 956 (1-10-12A) 31-00-13 AK10 Parning 956 (1-10-12A) 31-00-13 AK10 Parning 656 (1-10-12A) 31-00-13 AK10 Parning 656 (1-10-12A) 30-100-14 AK10 Parning 656 (1-10-12A) 30-100-14 AK10 Parning 30.00 (1-46-13A) 30-100-14 AK20 Construction 100% 32-46-13A 25-40-14 AK20 Construction 100% 32-46-13A 25-40-14 AK20 Construction 100% 32-46-13A 25-40-14 </td <td>A5450</td> <td>Construction</td> <td>0% 14-Dec-13*</td> <td>31-Dec-14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td>	A5450	Construction	0% 14-Dec-13*	31-Dec-14								<u> </u>	
A710 B0 Open 0% 1-0-0137	Annual I/I FY14 Pr	oject (H14184)	23-Sep-13 A	01-Dec-14									
A3720 Aard 0% 22-Mor13* A5720 Construction 0% 01-00-124 31-00-13 A410 Porting 05% 01-00-124 31-00-13 A4110 Porting 05% 01-00-124 30-00-14 A5720 Aard 05% 01-00-124 30-00-13 A450 Parting 05% 01-00-124 30-00-14 A5130 Parting 05% 01-00-124 30-00-14 A510 Parting 30% 01-144 30-00-14 A5110 Warranty 05% 01-01-14 30-00-14 A510 Warranty 05% 11-14-15 30-00-14 A510 Warranty 05% 11-14-15 20-00-14	A5700	Ad	100% 23-Sep-13 A				•						
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P131 Schegiet D1:00:12A 31-Dee-13 A4410 Parning 955 01:00:12A 30-Dee-13 A4500 Parning 05% 01:00:12A 30-Uni-14 A5500 Parning 05% 01:00:12A 30-Uni-14 A5500 Parning 05% 01:00:12A 30-Uni-14 A5101 Parning 05% 01:00:12A 30-Uni-14 A5101 Parning 05% 01:00:14A 30-Uni-14 A5101 Parning 05% 01:00:14A 02:00:14A A5200 Warranty 15% 24:Aug-15A 25:Aug-12A 25:Aug-12A A5100 Warranty 15% 15:Aug-12A 30:Aug-14 A5100 Warranty 15% 15:Aug-13A 15:Aug-14A A5100 Warranty 15% 15:Aug-13A 15:Aug-14A A5100 Warranty 15% 15:Aug-13A 15:Aug-14A A5100 Warranty 15% 15:Aug-14A 15:Aug-14A A5100 Warranty 15% 15:Aug-14A 15:Aug-14A A5100 Wa	A5720	Award	0% 25-Nov-13*						•				
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Pump Station Operations Programs 26-Mar-12A 30-Aug-14 Ox-A2 Entrepresey Operation Regrams 26-Mar-12A 30-Aug-14 Title IV Homes Pump Station Reorgams 26-Mar-12A 23-Aug-14 A2310 Warranly 80% 17-Jan-13A 14-Jan-14 A3540 Construction 10% 24-Apr-13A 25-Aug-14A A4540 Construction 10% 24-Apr-13A 25-Aug-14A A5550 Warranty 11% 32-Aug-13A 16-Apr-14A Nothern Ditch Diversion Structure Flow Meter Manhols Project (H13033) 16-Apr-13A 16-Apr-14 A5120 Warranty 10% 16-Apr-13A 16-Apr-14 Stin Street Pr3 Gele Acturator Ropsensent Project (H0352) 16-Apr-13A 16-Apr-14 A5130 Warranty 90% 16-Apr-13A 16-Apr-14 A5130 Warranty 60% 16-Jan-13A 16-Jan-14 A5200 Warranty 16-Jan-14A 16-Jan-14 A4510 Design 0% 16-Jan-13A 16-Jan-14 A4520 Ad 0% 16-Jan-13A 16-Jan-14 A4550 Bid Open 0% 10-Ven-13"	Nightingale PS SSI	ES (H11313)	01-Feb-13 A	30-Jun-14									
Charlener December 2 Schwart 12A 30-Aug-14 Thindy Homes Pump Station Emergency Generator & Access Road (H11440) 17-Jan-13A 14-Jan-14 A310 Warranhy 80% 17-Jan-13A 14-Jan-14 A4500 Construction 100% 2-4-Apr-13A 25-Aug-14 A6500 Construction 100% 2-4-Apr-13A 25-Aug-14 A5500 Warranhy 10% 2-4-Apr-13A 25-Aug-14 Northern Ditch Diversion Structures Flow Moter Manhols Project (H13033) 16-Apr-14 16-Apr-14 A5120 Warranhy 50% 16-Apr-13A 16-Apr-14 A5130 Warranhy 90% 15-Nov-13A 30-Nov-13 A5130 Warranhy 90% 15-Nov-12A 30-Nov-13 A5130 Warranhy 90% 15-Nov-12A 30-Nov-13 A5130 Warranhy 80% 15-Jan-13A 16-Jan-14 A520 Warranhy 80% 16-Jan-13A 16-Jan-14 A520 Warranhy 80% 16-Jan-13A 16-Jan-14 A520 Nath 12A 31-May-14 31-May-14 A4500 Bit Open 0% 02-Nov-1	A5110	Planning	30% 01-Feb-13 A	30-Jun-14							1	<u> </u>	<u> </u>
O-A-2 Emergency Operation Programs 26-Mar12A 30-Aug-14 Thirdly Homes Pump Station Emergency Generator & Access Road (H1440) 17 -Jan 13A 14-Jan 14 A2310 Waranhy 80% 17-Jan 13A 14-Jan 14 Thirdly Homes Pump Station Root Hatch (H11440) 24 Apr 13A 23-Aug-14 A450 Construction 100% 24 Apr 13A 23-Aug-14 A450 Waranhy 15% 29-Aug-13A 23-Aug-14 Northern Ditch Dhversion Structurs Flow Mater Mamhole Project (H13035) 16 Apr 13A 16-Apr 14 A5120 Waranhy 50% 16-Apr 13A 16-Apr 14 A5130 Waranhy 90% 19-Nov-12A 30-Nov-13 A5130 Waranhy 90% 19-Nov-12A 30-Nov-13 A5130 Waranhy 90% 19-Nov-12A 30-Nov-13 A5130 Waranhy 80% 16-Jan-14 A500 Waranh 16-Jan-14 A520 Waranhy 80% 16-Jan-14 A4210 Design 100% 26-Mar-12A 31-JuE-13A A4200 Design 0% 10-Dec-13' 31-Ju	ump Station Op	erations Programs	26-Mar-12 A	30-Aug-14									
Tinify Homes Pump Slation Emergency Generator & Access Road (H11440) 17-Jan-13A 14-Jan-14 A310 Warranty 60% 17-Jan-13A 14-Jan-14 Tinify Homes Pump Slation Roof Hatch (H11440) 24-Apr-13A 25-Aug-13A A680 Construction 100% 24-Apr-13A 25-Aug-13A A5500 Warranty 15% 26-Aug-13A 25-Aug-13A Mortisern Ditch Diversion Structures Flow Moler Manholes Project (H10333) 16-Apr-13A 16-Apr-14 A5120 Warranty 50% 16-Apr-13A 16-Apr-14 S415 Streat FPS Cate Actualor Replacement Project (H10352) 19-Nov-12A 30-Nov-13 A5130 Warranty 90% 19-Nov-12A 30-Nov-13 A5200 Warranty 60% 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 A5200 Warranty 60% 16-Jan-13A 16-Jan-14 A5200 Warranty 60% 16-Jan-13A 16-Jan-14 A520 Ad 0% 14-Ocl-13' 31-Jul-13A A4820 Ad 0% 10-Nor-13' 44-Jan-14 A4820 <td< td=""><td></td><td></td><td>26-Mar-12 A</td><td>30-Aug-14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			26-Mar-12 A	30-Aug-14									
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Northern Ditch Diversion Structure Flow Meter Manhole Project (H13033) 16 Apr-13A 16 Apr-14 A5120 Warranty 50% 16 Apr-13A 16 Apr-14 34h Street FPS Gale Actuator Replacement Project (H0352) 19-Nov-12A 30-Nov-13 A5130 Warranty 90% 19-Nov-12A 30-Nov-13 Royster Basin Access Road Project (H0355) 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-14A If Can-14 A4810 Design 100% 26-Mar-12A 31-May-14 A4820 Ad 0% 0% 0% 0% A4830 Award 0% 0% 0% 0% <t< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td>:</td><td></td><td>!</td><td></td><td></td><td>!</td><td>:</td></t<>				-			:		!			!	:
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S4th Street FPS Gate Actuator Replacement Project (H03352) 19-Nov-12A 30-Nov-13 A5130 Warranty 90% 19-Nov-12A 30-Nov-13 Royster Basin Access Road Project (H03365) 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 Royster Basin Access Road Project (H03365) 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 Royster Basin Generator Project (H03365) 26-Mar-12A 31-May-14 A4810 Design 100% 26-Mar-12A 31-Jul-13A A4820 Ad 0% 14-Oct-13" 44820 A4830 Bid Open 0% 02-Nov-13" 44840 A4840 Construction 0% 01-Dec-13" 31-May-14 St. Matthews #7 Pump Station Modification Project (H14211) 01-Jul-13A 01-Apr-14 A5800 Ad 0% 01-Nov-13" 43-00							:		1			:	
A5130 Warranty 90% 19-Nov-12A 30-Nov-13 Royatar Basin Access Road Project (H09365) 16-Jan-13A 16-Jan-14 A5200 Warranty 80% 16-Jan-13A 16-Jan-14 Royster Basin Generator Project (H09365) 26-Mar-12A 31-May-14 A4810 Design 100% 26-Mar-12A 31-Jul-13A A4820 Ad 0% 14-Oct-13* 44850 Bid Open 0% 02-Nov-13* - A4830 Award 0% 02-Nov-13* A4840 Construction 0% 01-Dec-13* St. Matthews #7 Pump Station Modification Project (H14211) 01-Jul-13A A5790 Design 75% 01-Jul-13A A5800 Ad 0% 01-Nov-13*													
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A4820 Ad 0% 14-Oct-13" A4850 Bid Open 0% 02-Nov-13" A4830 Award 0% 20-Nov-13" A4840 Construction 0% 01-Dec-13" St. Matthews #7 Pump Station Modification Project (H14211) 01-Jul-13A 01-Jul-13A 01-Apr-14 A5790 Deskgn 75% 01-Jul-13A A5800 Ad 0% 01-Nov-13"													
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A4840 Construction 0% 01-Dec-13' 31-May-14 St. Matthews #7 Pump Station Modification Project (H14211) 01-Jul-13A 01-Apr-14 A5790 Design 75% 01-Jul-13A 31-Oct-13 A5800 Ad 0% 01-Nov-13' Image: Construction Project (H14211)		-							•			1	
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A5790 Design 75% 01-Jul-13 A 31-Oct-13 A5800 Ad 0% 01-Nov-13"												1	
A5800 Ad 0% 01-Nov-13"							!		5				
		-		01-000-10					1				
A5830 Bld Open 0% 18-Nov-13*									•				





)	Activity Name	Physical % Start	Finish			2	013			
		Complete		lut	Aug	Sep	Oct	Nov	Dec	Jan
A5810	Award	0% 01-D						•		
A5820	Construction	0% 15-D								1
	r Pump Station FM Modification Project (H14211)		ep-13A 15-Feb-1							
A6040	Design	5% 01-S		3				1	1	
A6050	Ad	0% 15-F								
	oint Pump Station Access Road (H13084)		pr-13A 16-Apr-1							
A5140	Warranty	50% 16-A			1	-		1		
	PS Ventilation Modifications (H09352)		ct-13 01-May-1	4						
A5020	Ad	0% 15-0					•			
A5030	Bid Open	0% 01-N						•		
A5040	Award	0% 15-N						•		
A5050	Construction	0% 15-D								1
	je PS Header Piping Improvements Project (H09352)		ar-13 A 03-Jul-14							
A5000	Construction	100% 13-M								
A5060	Warranty	10% 03-JI			1	1		!		1
4th Street F	PS Gate and Switch Gear Replacement Project (F12095)	04-Ji	an-13A 30-Aug-1	4						
A5150	Design	95% 04-J;	an-13A 31-Oct-1	3	1	1		,		
A5160	Ad	0% 01-N	ov-13"					÷		
A5170	Bid Open	0% 01-D	ec-13"					•		
A5180	Award	0% 16-D	ec-13"						•	
A5190	Construction	0% 15-Ja	an-14" 30-Aug-1	4						
Shannon R	un PS Elimination Project (B13132)	01-J	in-13A 01-Jun-1	1				1		
A5300	Warranty	60% 01-J	in-13A 01-Jun-1	4						-
PE/CPE Treat	ment Plant Activities	01-S	ep-12.A 01-Apr-1							
Morris Forman	WWTP Sampling Manholes (H09374)	01-S	ep-12 A 31-Mar-1	4						
A4750	Design	100% 01-S	ep-12 A 13-Sep-1	3A						
A4710	Ad	0% 14-O	ct-13"				•			
A4740	Bid Open	0% 01-N	ov-13"					↓		
A4720	Award	0% 18-N	ov-13"					•		
A4730	Construction	0% 01-D	ec-13" 31-Mar-1	4						
MFWQTP Rubb	bertown Sampling Manholes (H09374)	02-S	ep-13 A 31-Mar-1	4						
A6090	Design	20% 02-S	ep-13 A 01-Nov-1	3				i		
A6100	Ad	0% 01-N	ov-13"					÷		
A6130	Bid Open	0% 18-N	ov-13"					•		
A6110	Award	0% 01-D	ec-13"					•	•	
A6120	Construction	0% 15-D	ec-13" 31-Mar-1	4						
Morris Forman	Secondary Flume Replacement (H12047)	12-8	ep-12 A 23-Aug-1	3A						
A3270	Construction	100% 12-S	ep-12 A 23-Aug-1	3A						
Berrytown Tan	k Rehabilation (H09374)	01-M	ar-13 A 01-Apr-1	1						
A5350	Design	5% 01-M	ar-13 A 30-Oct-1	3	i	i		1		
A5310	Ad	0% 15-N	ov-13"					•		
A5320	Bid Open	0% 01-D								
A5340	Award	0% 15-D	ec-13"						•	
A5330	Construction	0% 15-J;	an-14" 01-Apr-14	i						
Hillridge WTP I	Diversion Project (A13070)	01-D	ec-12 A 01-Dec-1	3						
A5680	Warranty	80% 01-D	ec-12 A 01-Dec-1	3	-			!)	
	-			L	•	•		•		-





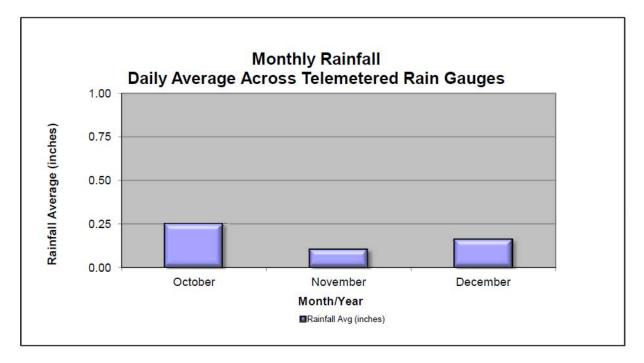


SECTION 6: Project WIN Performance Overview

6.1 Rainfall

The number and the volume of wet weather overflows are directly related to the amount of rain that has fallen during the reporting period. The following graph shows the Jefferson County average rainfall amounts for the last quarter. Data was pulled from MSD's Rain Gauges.

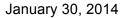
A storm frequency analysis for CSOs is included as **Appendix E**.



6.2 Collection System Unauthorized Discharges

6.2.1 Collection System Overflows to Waters of the United States (WUS)

MSD recorded information related to overflows reaching Waters of the United States (WUS) for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. Details of these overflows will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014, and will be posted on the Project WIN website. During this quarter, 226 overflows to the Waters of the United States (WUS) have been reported.







Unauthorized Discharges (Waters of the United States)										
Problem	Dry Weather	Wet Weather	Total							
Blending At Jtown WQTC	0	5	5							
Bypass At WQTC	4	8	12							
Lack of System Capacity	0	192	192							
Obstruction-Not Grease or Root	0	2	2							
Power Outage (LG&E)	0	1	1							
Pumped Overflow	0	9	9							
Roots	3	0	3							
Structural Failure	1	0	1							
Utility Damage	1	0	1							
Total	9	217	226							

6.2.2 Overflows to Ground (EXT)

MSD recorded information related to overflows to the ground that did not reach waters of the United States for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014.

6.2.3 Overflows to Interior (INT)

MSD recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014.

6.2.4 Dry Weather CSOs

MSD recorded information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014. The table below summarizes dry weather CSOs that occurred during the quarter. Appendix A-1 includes details on the dry weather overflows that occurred in the quarter.

Dry Weather CSO - October 1, 2013 - December 31, 2013											
cso	Type of Discharge	Date/Time Problem Cause									
CSO106	DISDW	12/02/2013	ROOTS	DEBRIS WAS CAUGHT UP IN DROP INLET AREA OF NEXT MANHOLE DOWNSTREAM.	13						
CSO167	DISDW	12/13/2013	UTILITY DAMAGED MSD ASSET	WATER MAIN BREAK AT BROWNSBORO RD AND DRESCHER BRIDGE AVE	64,656						





6.3 CSO Reductions

Included in **Appendix B** is the CSO data for this quarter. A summary of any data anomalies and the CSO data for each monitored overflow has been graphed along with rainfall information from the nearest rain gauge to facilitate review of the overflows that occurred.

CSO 206 Separation Project – Completed December 12, 2013 – Reduced CSO occurrences.

6.4 SSO Reductions

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

• Floyds Fork WQTC Phase 2 Expansion – Completed July 19, 2013 – Eliminated the following SSOs: 97807.

6.5 Gravity Line Preventive Maintenance

Each quarter, data and statistics relating to the cleaning, inspection, and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance (GLPM) are reported. The following data was compiled for the period of October 1, 2013, through December 31, 2013. The first table includes data and targets. The second table includes unplanned maintenance and other maintenance activities that are performed in response to inspection.

Rolling quarterly GLPM performance is related to unplanned maintenance; therefore no targets have been developed.

Rolling Quarterly GLPM Performance With Targets											
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Total	Target/ qtr	% of Annual Target				
Combined Sewer Area											
Catch Basins Cleaned CSO Area - PM	7,358	9,499	4,861	6,581	28,299	4,460	37%				
CSO Inspections	1,310	1,319	1,348	1,391	5,368	1,272	27%				
Sanitary Sewer Area											
Catch Basins Cleaned SSO Area - PM	1,400	2,329	1,587	386	5,702	1,144	8%				
County Wide											
Sewer Main Inspections MSD Crews (LF)	81,148	260,951	294,960	243,515	880,574	198,000	31%				
Sewer Main Inspections Contractor (LF)	98,656	0	183,976	538,432	821,064	198,000	<mark>68%</mark>				
Total Inspections (LF)	179,804	260,951	478,936	781,947	1,701,638	396,000	49%				





Rolling Quarterly GLPM Performance											
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Total						
Combined Sewer Area											
Catch Basins Cleaned CSO Area - UM	85	238	291	202	816						
CSO Debris Removal WO	112	99	152	123	486						
Chemical Root Treatment CSO Area (LF)	7,894	797	0	282	8,972						
Root Cutting CSO Area (LF)	815	40	3,293	7,457	11,605						
Flushing and Cleaning of Sewer Mains CSO Area (LF)	4,224	5,586	11,282	8,146	29,238						
Sanitary Sewer Area											
Catch Basins Cleaned SSO Area - UM	91	83	96	120	390						
Chemical Root Treatment SSO Area (LF)	208,106	86,669	0	179,087	473,863						
Root Cutting SSO Area (LF)	34,368	13,919	14,517	17,796	80,600						
Flushing and Cleaning of Sewer Mains SSO Area (LF)	21,544	32,037	23,146	30,245	106,972						

6.6 Water Quality Treatment Center Bypasses

6.6.1 Bypass Events

The table below summarizes the bypasses that occurred in the reporting period.

Bypass Events -	Bypass Events - October 1, 2013 - December 31, 2013												
Type of Bypass	Date	ID	Facility Name										
RAIN EVENT DISCHARGE	12/21/13	MSD0208	KEN CARLA										
RAIN EVENT DISCHARGE	10/06/13	MSD0209	BERRYTOWN										
RAIN EVENT DISCHARGE	11/17/13	MSD0209	BERRYTOWN										
RAIN EVENT DISCHARGE	11/17/13	MSD0209	BERRYTOWN										
RAIN EVENT DISCHARGE	12/21/13	MSD0209	BERRYTOWN										
RAIN EVENT DISCHARGE	12/21/13	MSD0209	BERRYTOWN										
RAIN EVENT DISCHARGE	10/06/13	MSD0263	CHENOWETH HILLS										
RAIN EVENT DISCHARGE	10/06/13	MSD0289	CEDAR CREEK										
DRY WEATHER DISCHARGE	12/24/13	MSD0291	HUNTING CREEK NORTH										
DRY WEATHER DISCHARGE	11/08/13	MSD0404	SHADOW WOOD										
DRY WEATHER DISCHARGE	11/21/13	MSD0404	SHADOW WOOD										
DRY WEATHER DISCHARGE	12/03/13	MSD0404	SHADOW WOOD										





6.6.2 Bypass Corrective Actions

Each quarter, an assessment of bypasses will occur to determine the root cause of the bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and corrective action completion date. Refer to the table below for causes of bypasses and respective corrective actions that occurred July 1, 2013, through September 30, 2013.

	Bypass Summary - October 1, 201	13 to December 31, 2013
DATE/TIME	BYPASS DESCRIPTION	FAILURE RESOLUTION
	Capacity (C	
10/06/2013 -	This WQTC experienced a bypass of	
CEDAR	80 gallons of fully treated wastewater	
CREEK -	when a heavy rain event caused the effluent channel to overflow. The total	If operational needs for resources allow, in the
Work Order	flow for the day was 14.8 MG. The	event of heavy rain, MSD will haul water from the plant.
#2031221 -	peak plant flow for this event was 26.66 MGD. The peak design flow for	piant.
САР	this plant is 25 MGD.	
10/06/2013 - BERRYTOWN - Work Order #2031258 - CAP	The treatment plant experienced a bypass when an extremely unusual and heavy rain event caused elevated water levels in plant clarifier weirs. The bypassed flow received preliminary and secondary treatment. Because of the elevated levels in the tanks, water flowed out of cuts for air piping in walls between aeration tank and clarifiers. Approximately 12,100 gallons overflowed. The approximate total plant flow for October 6 was 0.1499 MGD.	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Plant is to be eliminated December 2015.
10/0 (/0010	On October 6, 2013, due to increased	
10/06/2013 -	plant flow caused by storm event, the surge tank overflowed, and resulted in	
CHENOWETH	a wet weather bypass to the waters of	
HILLS - Work	the U.S. Plant aeration was shut off	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the
Order	prior to overflow. Approximately 596 gallons overflowed. The design flow to	plant. Plant is scheduled to be eliminated in late
#2031261 -	this plant is 0.200 MGD. The peak	2014 or early 2015.
САР	plant flow during this event was 1.743 MGD. Total plant flow for October 6 was 0.832 MG.	





11/17/2013 - BERRYTOWN - Work Order #2060993 - CAP	The #1 treatment plant experienced a bypass when a heavy rain event caused elevated water levels in plant clarifier weirs. The bypassed flow received preliminary and secondary treatment. Because of the elevated levels in the tanks, water flowed out of cuts for air piping in walls between aeration tank and clarifiers. Air to aeration tank was shut off prior to bypass. Approximately 2,462 gallons overflowed. This plant is designed for 0.075 MGD. The approximate total plant flow for November 17 was 0.1095 MGD and 0.285 MGD for November 18.	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Plant is to be eliminated December 2015.
11/17/2013 - BERRYTOWN - Work Order #2060998 - CAP	The #2 treatment plant experienced a bypass when a heavy rain event caused elevated water levels in plant clarifier weirs. The bypassed flow received preliminary and secondary treatment. Because of the elevated levels in the tanks, water flowed out of cuts for air piping in walls between aeration tank and clarifiers. Air to aeration tank was shut off prior to bypass. Approximately 2,462 gallons overflowed. This plant is designed for 0.075 MGD. The peak plant flow for the day was approximately 0.429 MGD. The approximate total plant flow for November 17 was 0.1095 MGD and 0.285 MGD for November 18.	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Plant is to be eliminated December 2015.
12/21/2013 - BERRYTOWN - Work Order #2085476 - CAP	The treatment plant experienced a bypass due to rain event elevated water levels in plant #3. Approximately 11,525 gallons overflowed plant #3 clarifier and bypassed disinfection treatment process. The bypassed volume did receive preliminary and secondary treatment. The plant design flow is 0.075 MG. The peak flow during the duration of the bypass exceeded the maximum flow meter capacity. The maximum flow meter capacity is 0.430 MG.	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Plant is to be eliminated December 2015.





12/21/2013 - BERRYTOWN - Work Order #2085477 - CAP	The treatment plant experienced a bypass due to rain event elevated water levels in plant #1. Approximately 11,525 gallons overflowed plant #1clarifier and bypassed disinfection treatment process. The bypassed volume did receive preliminary and secondary treatment. The plant design flow is 0.075 MG. The peak flow during the duration of the bypass exceeded the maximum flow meter capacity. The maximum flow meter capacity is 0.430 MG.	If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Plant is to be eliminated December 2015.
	Tacinty Fantile (Mechanical - MCH, Ele	curca - ELE, Suuciurai - SKT)
12/24/2013 - HUNTING CREEK NORTH - Work Order #2086192 - MCH	Approximately 4,425 gallons of plant biosolids bypassed plant #2 clarifier to waters of the US. The bypass was caused by an obstruction in the clarifier return activated sludge (RAS) line. The bypassed biosolids received preliminary, disinfection and dechlorination treatment.	MSD cleared the obstruction in the return line and pumped down #2 clarifier to clean all leaves and debris out of the clarifier.
11/08/2013 - SHADOW WOOD - Work Order #2050519 - STR	The Shadow Wood WQTC pipe from the tertiary pond to disinfection tank became partially blocked with leaves causing the water level in the pond to rise. It is believed that the elevated water level is the cause of the bypass. On Friday November 8, after dye testing determined the levee was leaking, we pumped down the pond to stop the bypass. Approximately 500 gallons of waster water bypassed the disinfection tank. The bypass volume received full treatment except for chlorination.	MSD pumped down the pond and contractors are excavating to determine the location of the leak and to make repairs.





11/21/2013 - SHADOW WOOD - Work Order #2062347 - STR	On Thursday November 21, 2013, the Shadow Wood WQTC's tertiary pond experienced a bypass to the waters of the US. To investigate the cause of the bypass, an excavation of the site was performed. This investigation determined that the bypass was caused by a significant amount of erosion that had occurred at the tertiary pond. After dye testing determined the levee was leaking again, we pumped the pond down to stop the bypass into the disinfection tank. Approximately 100 gallons of wastewaster bypassed the disinfection tank. The bypass volume received full treatment except for chlorination.	On November 22, 2013, MSD contractor excavated and repaired the leak in the tertiary levee.
12/03/2013 - SHADOW WOOD - Work Order #2070396 - STR	On Tuesday, December 03, 2013, the Shadow Wood WQTC tertiary pond experienced a bypass to the waters of the US. MSD investigated to determine the cause of the bypass. It was determined that a portion of the berm for the tertiary pond had settled. The pond was pumped down to stop the bypass into the disinfection tank. Approximately 309 gallons of wastewater bypassed the disinfection tank. The bypass volume received full treatment except for chlorination.	MSD has established communications with Kentucky Division of Water personnel in an attempt to eliminate the tertiary pond from our treatment process or determine the best course of action. MSD is currently operating the tertiary pond at a lower elevation to prevent a recurrence of a plant bypass.
12/21/2013 - KEN CARLA - Work Order #2085427 - STR	The treatment plant experienced a bypass when the effluent discharge pipe was obstructed with roots due to a break in the pipe. Approximately 38,250 gallons bypassed at the v-notch weir in the chlorine contact channel. The bypassed volume received full treatment. However, it was not discharged at the permitted discharge location. We hauled the plant to stop effluent flow on 12/22/13 and had a contractor jet rod the effluent discharge pipe.	The contractor was unable to clear obstruction from effluent pipe. On 12/23/13, MSD personnel inspected the effluent pipe with a camera to determine the obstruction and were able to clear root obstruction. MSD is evaluating options to implement a best plan to either repair or replace the break in the effluent discharge pipe.





External Power failures (LGE Related-PWR)											
No bypasses of this category occurred during the reporting period.	N/A										
Human Error ((OPN)										
No bypasses of this category occurred during the reporting period.	N/A										
Utility Dama	age										
No bypasses of this category occurred during the reporting period.	N/A										

6.6.3 Jeffersontown Water Quality Treatment Center

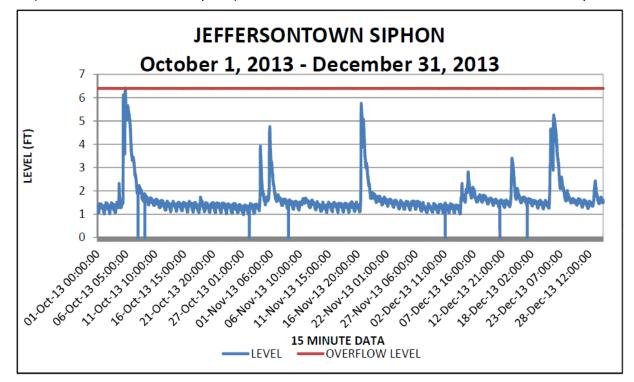
MSD submitted a Jeffersontown WQTC Process Control Plan on October 31, 2008, as required by paragraph 26.a of the Amended Consent Decree. MSD received comments on December 12, 2008, and resubmitted the plan January 16, 2009, and again on February 20, 2009. MSD received conditional approval of this document from EPA on April 1, 2009, pending finalization of the Amended Consent Decree that was under consideration by the Federal Court at the time the Process Control Plan was submitted. The Process Control Plan was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

The following activities occurred at the Jeffersontown WQTC during the reporting period:





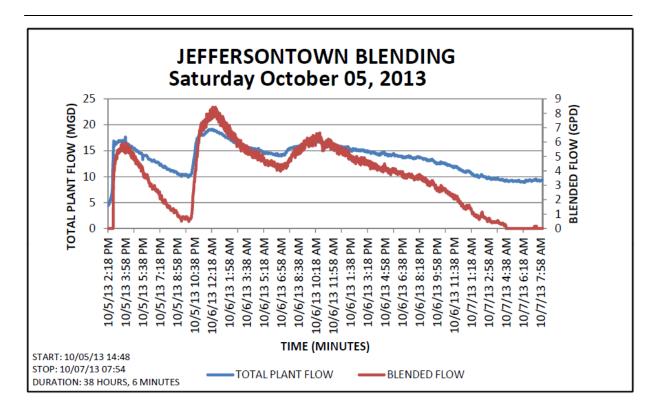
 Inspections were conducted upstream of the Jeffersontown WQTC Headworks five times (October 4th, 5th, 30th 2013, November 17, 2013 & December 21, 2013). Four overflows were reported as a result of the inspections. All four overflows occurred at manhole 28173 (not associated with the siphon). No overflows were recorded at the Jeffersontown Siphon.

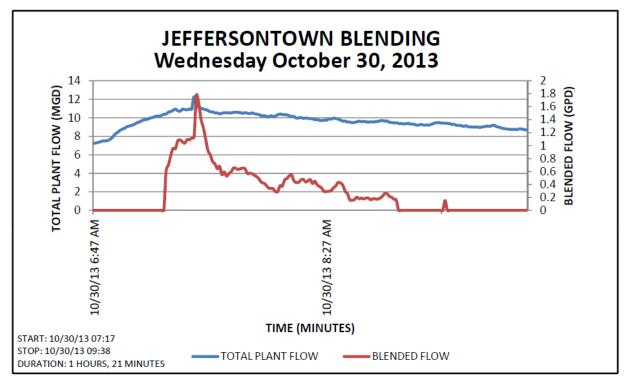


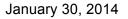
• There were five blending events during the reporting period. Below are charts for each blending event that show total plant flow during the blending event.





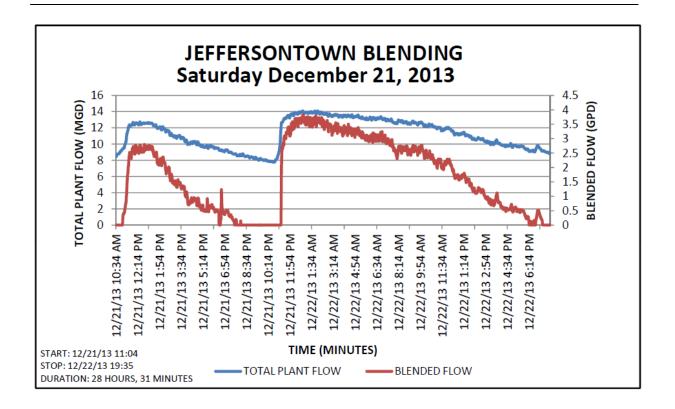


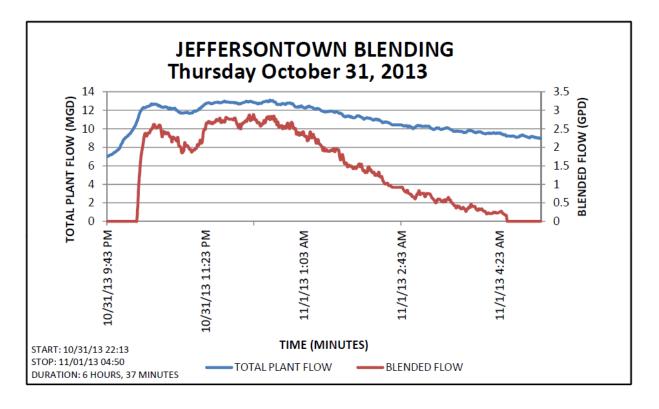






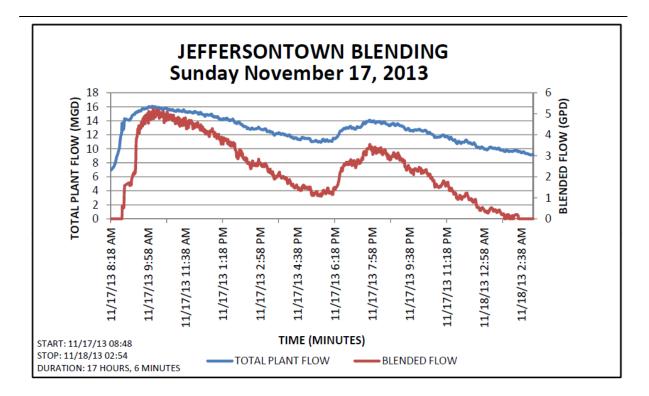






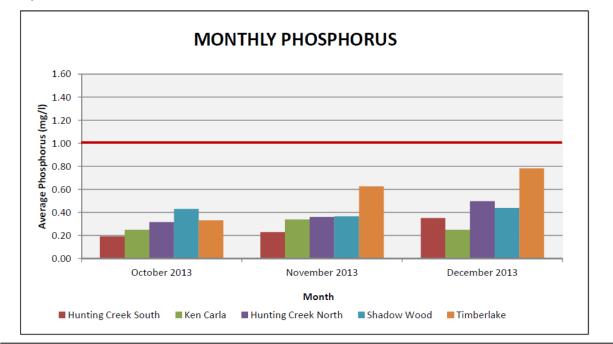






6.7 Phosphorus Monitoring at the Prospect WQTCs

As part of the Amended Consent Decree, MSD has agreed to submit phosphorus monitoring data including the calculations of monthly averages with the quarterly reports. MSD WQTCs were under the 1mg/l limit during the reporting period, per the Amended Consent Decree requirement. The following chart displays monthly average phosphorus results for the Prospect WQTCs.





Appendix A-1 - Discharge Work Orders – Dry Weather CSOs



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
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Appendix A-2 - Discharge Work Orders – Bypass



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
KEN CARLA	KY0022497	8701 LYNNHALL CT	12/21/13 11:30: AM	12/22/13 01:00 PM	38250	Sewer Treatment Plant	MSD0208	STREAM	HARRODS CREEK	Obstruction or blockage in plant effluent line caused an over flow of plant contact chamber	BYPASS AT WQTC	2085427	no clean up needed	MSD used TV camera and root cutter to clear obstruction
BERRYTOWN	KY0036501	1203 HEAFER RD	10/06/13 11:50: AM	10/07/13 07:40 AM	11900	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	2031258	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	11/17/13 3:20: PM	11/18/13 07:45 AM	2955	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF PLANT CAPACITY	BYPASS AT WQTC	2060993	NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	11/17/13 3:20: PM	11/18/13 07:45 AM	2955	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF PLANT CAPACITY	BYPASS AT WQTC	2060998	NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	12/21/13 6:00: PM	12/23/13 08:25 AM	11525	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	lack of system capacity caused by rain event made plant level rise to area where a hole was in clarifier	BYPASS AT WQTC	2085476	msd cleaned and sanitized area	msd made repairs to hole in top of clarifier
BERRYTOWN	KY0036501	1203 HEAFER RD	12/21/13 6:00: PM	12/23/13 08:25 AM	11525	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	lack of system capacity caused by rain event made plant level rise to area where a hole was in clarifier	BYPASS AT WQTC	2085477	msd cleaned and sanitized area	msd made repairs to clarifier
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	10/06/13 12:45: PM	10/06/13 05:43 PM	596	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	2031261	NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
CEDAR CREEK	KY0098540	8605 CEDAR CREEK RD	10/06/13 10:02: AM	10/06/13 10:10 AM	80	Sewer Treatment Plant	MSD0289	GROUND	CEDAR CREEK	excessive flow came out of channel ahead of parshal flume	BYPASS AT WQTC	2031221	no clean up	no action rain event caused excessive flow
HUNTING CREEK NORTH	KY0029106	9810 U S HIGHWAY 42	12/24/13 9:40: AM	12/24/13 09:55 AM	4425	Sewer Treatment Plant	MSD0291	STREAM	HARRODS CREEK	stopped up returns on #2 clarifier caused solids to flow out plant effluent	BYPASS AT WQTC	2086192	msd cleaned and sanitized plant effluent area	unclogged returns on clarifier #2
SHADOW WOOD	KY0031810	5489 FOREST LAKE DR	11/08/13 12:30: PM	11/08/13 07:00 PM	500	Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREEK	LAGOON LEAKING	BYPASS AT WQTC	2050519	MSD CLEANED & SANITIZED	PUMPED DOWN LAGOON & CONTRACTOR REPAIRED
SHADOW WOOD	KY0031810	5489 FOREST LAKE DR	11/21/13 1:44: PM	11/21/13 07:30 PM	100	Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREEK	LAGOON LEAKING	BYPASS AT WQTC	2062347	MSD CLEANED & SANITIZED THE AREA	PUMPED DOWN LAGOON & CONTRACTOR REPAIRED
SHADOW WOOD	KY0031810	5489 FOREST LAKE DR	12/03/13 12:10: PM	12/03/13 06:57 PM	407	Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREEK	LAGOON LEAKING	BYPASS AT WQTC	2070396	MSD CLEANED & SANITIZED THE AREA	MSD EMPLOYEES PUMPED THE LAGOON DOWN



Appendix A-3 - Discharge Work Orders – Blending



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/05/13 2:48: PM	10/07/13 07:54 AM	6345803	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2030627	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/30/13 7:17: AM	10/30/13 09:38 AM	37242	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2045155	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/31/13 10:13: PM	11/01/13 04:50 AM	434117	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2048626	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/17/13 8:48: AM	11/18/13 02:54 AM	1825854	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN WQTC	2060837	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	12/21/13 11:04: AM	12/22/13 07:35 PM	2381265	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN WQTC	2085448	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION



Appendix A-4 - Discharge Work Orders – Waters of the United States



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO # Cleanup Efforts by MSD	Repair Efforts by MSD
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	12/22/13 8:50: AM	12/22/13 12:15 PM	205	Sewer Manhole	108953	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085580 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	12/22/13 8:50: AM	12/22/13 12:15 PM	205	Sewer Manhole	108953	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085624 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	12/22/13 8:50: AM	12/22/13 12:15 PM	205	Sewer Manhole	108957	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085581 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	12/22/13 8:50: AM	12/22/13 12:15 PM	205	Sewer Manhole	108958	CATCH BASIN	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085582 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
HITE CREEK	KY0022420	5500 HITT RD	11/17/13 12:05: PM	11/17/13 12:10 PM	25	Sewer Manhole	11877A	STREAM	HITE CREEK	HIGH WET WELL LEVEL	LACK OF SYSTEM CAPACITY	2060968 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
KEN CARLA	KY0022497	8701 LYNNHALL CT	12/21/13 11:30: AM	12/22/13 01:00 PM	38250	Sewer Treatment Plant	MSD0208	STREAM	HARRODS CREEK	Obstruction or blockage in plant effluent line caused an over flow of plant contact chamber	BYPASS AT WQTC	2085427 no clean up needed	MSD used TV camera and root cutter to clear obstruction
BERRYTOWN	KY0036501	1203 HEAFER RD	10/06/13 11:50: AM	10/07/13 07:40 AM	11900	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	2031258 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	11/17/13 3:20: PM	11/18/13 07:45 AM	2955	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF PLANT CAPACITY	BYPASS AT WQTC	2060993 NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	11/17/13 3:20: PM	11/18/13 07:45 AM	2955	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF PLANT CAPACITY	BYPASS AT WQTC	2060998 NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	12/21/13 6:00: PM	12/23/13 08:25 AM	11525	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	lack of system capacity caused by rain event made plant level rise to area where a hole was in clarifier	BYPASS AT WQTC	2085476 msd cleaned and sanitized area	msd made repairs to hole in top of clarifier
BERRYTOWN	KY0036501	1203 HEAFER RD	12/21/13 6:00: PM	12/23/13 08:25 AM	11525	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	lack of system capacity caused by rain event made plant level rise to area where a hole was in clarifier	BYPASS AT WQTC	2085477 msd cleaned and sanitized area	msd made repairs to clarifier
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	10/05/13 4:00: PM	10/06/13 10:00 PM	106000	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030658 DISCLN WO# 2031922	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	11/01/13 1:50: AM	11/01/13 02:20 AM	2100	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2048653 DISCLN WO# 2048723	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	11/17/13 11:15: AM	11/17/13 10:30 PM	60000	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPCITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060899 DISCLN WO# 2061264	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	12/22/13 1:04: AM	12/23/13 06:30 AM	29500	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY- HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085506 DISCLN WO# 2085923	LOCATION INCLUDE IN THE IOAP
JEFFERSONTOWN	KY0025194	3506 CHARLANE PKY	10/05/13 4:44: PM	10/06/13 06:51 PM	52000	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030663 DISCLN WO# 2031961	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3506 CHARLANE PKY	11/17/13 11:30: AM	11/17/13 07:52 PM	19500	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060905 DISCLN WO# 2061274	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	10/06/13 4:50: PM	10/07/13 04:47 PM	89000	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030665 DISCLN WO# 2032007	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	11/17/13 11:52: AM	11/17/13 06:55 PM	30500	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060908 DISCLN WO# 2061278	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3620 CHARLANE PKY	10/05/13 4:54: PM	10/06/13 04:48 PM	67000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030664 DISCLN WO# 2031987	LOATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
JEFFERSONTOWN	KY0025194	3620 CHARLANE PKY	11/17/13 12:00: PM	11/17/13 06:54 PM	75000	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060906	DISCLN WO# 2061277	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	2901 LIVINGSTON AVE	10/05/13 5:00: PM	10/06/13 06:55 PM	101000	Sewer Manhole	28395	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030666	DISCLN WO# 2032012	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3406 DELL RD	10/05/13 11:50: PM	10/07/13 11:30 AM	81000	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030758	DISCLN WO# 2032117	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3501 MARLIN DR	10/06/13 11:43: PM	10/07/13 11:30 AM	29000	Sewer Manhole	28416	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030757	DISCLN WO# 2032111	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3506 DELL RD	10/06/13 11:30: PM	10/07/13 11:30 AM	33000	Sewer Manhole	28417	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030756	DISCLN WO# 2032096	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3406 CHARLANE PKY	10/05/13 4:32: PM	10/06/13 06:57 PM	47000	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030662	DISCLN WO# 2031956	LOATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3406 CHARLANE PKY	12/22/13 12:55: PM	12/23/13 06:45 AM	27000	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085507	DISCLN WO# 2085926	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	10/05/13 4:13: PM	10/06/13 08:33 PM	74000	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030661	DISCLN WO# 2031927	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	11/17/13 11:15: AM	11/17/13 07:36 PM	41000	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060904	DISCLN WO# 2061270	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	12/22/13 1:22: AM	12/23/13 06:50 AM	55000	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085508	DISCLN WO# 2085928	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9514 TAYLORSVILLE RD	10/06/13 12:10: AM	10/07/13 12:00 PM	27500	Sewer Manhole	28711	DITCH	BEATTY BROOK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030760	DISCLN WO# 2032153	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11201 AMPERE CT	11/26/13 10:45: AM	11/26/13 03:00 PM	30	Sewer Main	29373	DITCH	CHENOWETH RUN	STRUCTURAL FAILURE IN SANITARY SEWER JOINTS	STRUCTURAL FAILURE	2067938	MSD PERSONNEL CLEANED THE IMPACTED AREA; REMOVED CONTAMINATED MATERIAL FROM AREA	WORK ORDER 20687938; REPAIRED & SEALED DEFECTIVE CLAY JOINTS
JEFFERSONTOWN	KY0025194	2711 GRASSLAND DR	10/06/13 12:05: AM	10/07/13 06:58 PM	105000	Sewer Manhole	31733	DITCH	BEATTY BROOK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030759	DISCLN WO# 2032121	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3200 RUCKRIEGEL PKY	10/05/13 5:30: PM	10/06/13 10:09 PM	77000	Sewer Manhole	64505	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030659	DISCLN WO# 2031926	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3200 RUCKRIEGEL PKY	11/17/13 11:22: AM	11/17/13 10:34 PM	45000	Sewer Manhole	64505	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060901	DISCLN WO# 2061266	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/05/13 2:48: PM	10/07/13 07:54 AM	6345803	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2030627	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/30/13 7:17: AM	10/30/13 09:38 AM	37242	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2045155	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/31/13 10:13: PM	11/01/13 04:50 AM		Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	2048626	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/17/13 8:48: AM	11/18/13 02:54 AM	1825854	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN WQTC	2060837	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	12/21/13 11:04: AM	12/22/13 07:35 PM	2381265	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN WQTC	2085448	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	wo #	Cleanup Efforts by MSD	Repair Efforts by MSD
SILVER HEIGHTS	KY0028801	9718 TITAN DR	10/06/13 1:30: AM	10/06/13 05:00 AM	39000	Sewer Manhole	61667	GROUND	MUD CREEK	RAIN EVENT	LACK OF SYSTEM CAPACITY	203071	MSD DID NOT OBSERVE ANY DEBRIS TO BE CLEANED IN AREA	NO REPAIRS NEEDED
SILVER HEIGHTS		3501 GRISSOM WAY	10/06/13 1:00: AM	10/06/13 05:00 AM	6000	Sewer Manhole	61687	GROUND	MUD CREEK	lack of system capacity	LACK OF SYSTEM CAPACITY	203072	a msd to clean and sanitize affected area	area included in ioap
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	10/06/13 12:45: PM	10/06/13 05:43 PM	596	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	203126	NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	9715 EL PRADO ST	11/17/13 9:45: AM	11/17/13 11:30 AM	3375	Sewer Manhole	09730	GROUND	PONDER CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	206083	3 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE		6102 COOPER CHAPEL RD	10/06/13 3:20: AM	10/06/13 04:50 PM	20250	Sewer Manhole	25479	CATCH BASIN	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY DURING RAIN EVENT	LACK OF SYSTEM CAPACITY	203073	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE		6102 COOPER CHAPEL RD	11/17/13 12:55: PM	11/17/13 04:00 PM	7375	Sewer Manhole	25479	CATCH BASIN	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	206086	I MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE		6102 COOPER CHAPEL RD	12/21/13 11:40: AM	12/21/13 02:00 PM	1400	Sewer Manhole	25479	CATCH BASIN	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	208544	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIRS.
DEREK R. GUTHRIE		6112 COOPER CHAPEL RD	12/21/13 12:00: PM	12/21/13 02:00 PM	1800	Sewer Manhole	25480	GROUND	FISHPOOL CREEK	RAIN EVENT & OBSTRUCTION IN LINE	OBSTRUCTION-NOT GREASE / ROOTS	208544	MSD CLEANED & SANITIZED THE AREA	MSD PERSONNEL RODDED THE LINE
DEREK R. GUTHRIE		6112 COOPER CHAPEL RD	12/21/13 12:15: PM	12/21/13 02:00 PM	2250	Sewer Manhole	25480	GROUND	FISHPOOL CREEK	RAIN EVENT & OBSTRUCTION IN LINE	OBSTRUCTION-NOT GREASE / ROOTS	208543	MSD CLEANED & SANITIZED THE AREA	MSD PERSONNEL RODDED THE LINE
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	10/06/13 9:30: AM	10/06/13 01:00 PM	10500	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	rain event caused a lack of system capacity	LACK OF SYSTEM CAPACITY	203075	msd cleaned & sanitized the area	site found during rain event recon- will monitor & evaluate for repair
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	11/17/13 12:50: PM	11/17/13 01:45 PM	275	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	206085	MSD CLEANED & SANITIZED	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	12/22/13 6:25: AM	12/22/13 02:00 PM	350	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	208556	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	10/05/13 4:30: PM	10/05/13 06:30 PM	6000	Sewer Manhole	27116	STREAM	MUD CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	203064	MSD PERSONNEL CLEANED AND SANITIZED THE AFFECTED AREA	LOCATION PART OF MSD IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	10/06/13 2:00: AM	10/07/13 07:00 AM	43500	Sewer Manhole	27116	STREAM	MUD CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	203072	MSD OBSERVED NO CLEAN UP NEEDED	INCLUDED IN IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	11/01/13 6:52: AM	11/01/13 04:30 AM	3750	Sewer Manhole	27116	STREAM	MUD CREEK	HEAVY RAIN	LACK OF SYSTEM CAPACITY	204864	CREATED DISCLN WORK ORDER	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	11/17/13 12:54: PM	11/18/13 07:20 AM	31500	Sewer Manhole	27116	STREAM	MUD CREEK	HEAVY RAIN EVENT	LACK OF SYSTEM CAPACITY	206085	msd cleaned and sanitized affected area	location included in ioap
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	12/21/13 1:22: PM	12/22/13 07:30 PM	46750	Sewer Manhole	27116	STREAM	MUD CREEK	HEAVY RAIN EVENT	LACK OF SYSTEM CAPACITY	208542	5 MSD CLEANED & SANITIZED AFFECTED AREA	LOCATION INCLUDED IN IOAP
DEREK R. GUTHRIE		6810 SANDSTONE BLVD	10/05/13 3:05: PM	10/05/13 05:45 PM	8040	Sewer Manhole	29948	GROUND	FERN CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	203064	2 MSD PERSONNEL TO CLEAN AND SANITIZE AFFECTED AREA	LOCATION PART OF MSD IOAP
DEREK R. GUTHRIE		6810 SANDSTONE BLVD	11/17/13 11:33: AM	11/17/13 01:00 PM	9900	Sewer Manhole	29948	GROUND	FERN CREEK	LACK OF SYSTEM CAPACITYHEAVY RAIN	LACK OF SYSTEM CAPACITY	206084	TAPE, TEMP SIGNS, ADVISED CUSTOMER TO AVOID DIRECT CONTACT WITH SEWAGECREATED DISCLN WO# 2060971	A SOLUTION IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE		6810 SANDSTONE BLVD	12/22/13 2:45: AM	12/22/13 07:40 AM	10500	Sewer Manhole	29948	GROUND	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	208551	4 MSD PERSONNEL WILL CLEAN THE AREA UNDER WORK ORDER NUMBER 2085643	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO # Cleanup Efforts by MSD	Repair Efforts by MSD
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	10/05/13 10:20: PM	10/06/13 04:30 PM	54510	Sewer Manhole	31073	DITCH	FERN CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030645 MSD PERSONNEL CLEANED AND SANITIZED THE AFFECTED AREA	D LOCATION PART OF MSD IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	11/17/13 10:52: AM	11/17/13 03:15 PM	20250	Sewer Manhole	31073	DITCH	FERN CREEK	SHAFT BROKE IN PUMP:GREASE BLOCKAGE	LACK OF SYSTEM CAPACITY	2060842 CLEANUP WORK ORDER HAS BEEN CREATED TO CLEAN THE AREA	THIS SOLUTION IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	12/22/13 2:37: AM	12/22/13 03:40 PM	22500	Sewer Manhole	31073	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085512 CREATED DISCLN WO#2085643	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	10/05/13 3:30: PM	10/05/13 05:50 PM	13980	Sewer Manhole	31074	DITCH	FERN CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030643 MSD PERSONNEL TO CLEAN AND SANITIZE AFFECTED AREA	LOCATION PART OF MSD IOAP
DEREK R. GUTHRIE		6808 SANDSTONE BLVD	11/17/13 10:00: AM	11/17/13 06:00 PM	48000	Sewer Manhole	31074	DITCH	FERN CREEK	сар	LACK OF SYSTEM CAPACITY	2060844 msd to clean and sanitize affected area	area included in ioap
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	12/21/13 3:01: PM	12/22/13 03:40 PM	36000	Sewer Manhole	31074	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085442 CREATED DISCLN WO#2085696	THIS SOLUTION IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6924 SANDSTONE BLVD	10/05/13 10:00: PM	1 10/06/13 10:00 AM	36000	Sewer Manhole	31083	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030746 DISCLN WO#	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6707 W ORELL RD	10/06/13 8:28: AM	10/07/13 09:00 AM	855000	Sewer Manhole	32682	STREAM	ALVEY DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031231 DISCLN WO# 2032470	LOCATION INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6707 W ORELL RD	12/21/13 12:05: PM	12/22/13 12:05 PM	100000	Sewer Manhole	32682	STREAM	ALVEY DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085471 DISCLN WO# 2089897	LOCATION INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	8707 WATTERSON TRL	11/21/13 12:25: PM	11/21/13 01:20 PM	110	Sewer Manhole	41583	GROUND	FERN CREEK	ROOTS IN MAIN SEWER	ROOTS	2062341 MSD PERSONNEL CLEANED THE IMPACTED AREA	WORK ORDER 2062702; ROOT CUT THE MAIN LINE TO REOPEN
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	12/22/13 6:00: AM	1 12/22/13 07:40 PM	20500	Sewer Manhole	60679	DITCH	FISHPOOL CREE	K LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085562 NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	4005 KIRBY LN	10/06/13 10:00: AM	1 10/06/13 01:00 PM	4500	Sewer Manhole	61266	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	2031260 PIPE DISCHARGE SUBMERGED- NO CLEAN UP	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	1720 SANDERS LN	10/06/13 1:47: AM	1 10/06/13 03:30 PM	164600	Sewer Lift Station	MSD0053-PS	GROUND	UPPER MILL CREEK	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2030739 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	6102 COOPER CHAPEL RD	12/21/13 11:45: AM	12/21/13 05:15 PM	8250	Sewer Lift Station	MSD0130-PS	DITCH	FISHPOOL CREE	K LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085443 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	10212 CAVEN AVE	12/21/13 12:20: PM	12/21/13 07:45 PM	22250	Sewer Lift Station	MSD0133-PS	GROUND	MUD CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085446 NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	5006 LEA ANN WAY	10/05/13 4:35: PM	10/05/13 05:35 PM	60000	Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	Rain event caused a lack of system capacity	PUMPED OVERFLOW	2030637 no debris to clean	site found during rain event recon. will evulate monitor for repair
DEREK R. GUTHRIE	KY0078956	5006 LEA ANN WAY	10/05/13 11:45: PM	10/06/13 06:30 PM	1125000	Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2030741 MSD CLEANED & SANITIZED THE AREA	TRASH PUMPS STARTED
DEREK R. GUTHRIE		5006 LEA ANN WAY	10/05/13 11:45: PM	10/06/13 06:30 PM	1125000	Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2030742 MSD CLEANED & SANITIZED THE AREA	TRASH PUMPS SET UP
DEREK R. GUTHRIE		5006 LEA ANN WAY	10/05/13 11:45: PM	10/06/13 06:30 PM		Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2030743 MSD CLEANED & SANITIZED THE AREA	TRASH PUMPS SET UP
DEREK R. GUTHRIE	KY0078956	5006 LEA ANN WAY	11/17/13 12:00: PM	11/17/13 04:20 PM	260000	Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2060864 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO # Cleanup Efforts by MSD	Repair Efforts by MSD
DEREK R. GUTHRIE	KY0078956	5006 LEA ANN WAY	11/17/13 12:00: PM 1	1/17/13 04:20 PM	260000	Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2060866 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	5006 LEA ANN WAY	11/17/13 12:00: PM 1	1/17/13 04:20 PM		Sewer Lift Station	MSD1010-PS	STREAM	NORTHERN DITCH	LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	2060868 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	10/06/13 3:30: AM 1	0/06/13 12:29 PM	39750	Sewer Lift Station	MSD1013-PS	DITCH	FISHPOOL CREEK	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030738 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	10/06/13 3:19: AM 1	0/06/13 07:47 AM	4020	Sewer Manhole	00056-W	GROUND	MIDDLE FORK BEARGRASS CREEK	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030747 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	11/01/13 12:31: AM 1	1/01/13 02:00 AM		Sewer Manhole	00056-W	GROUND	MIDDLE FORK BEARGRASS CREEK	POWER FAIL	POWER OUTAGE (LG&E)	2048658 MSD CLEANED & SANITIZED THE AREA	INSTALLED GENERATOR TO RESTORE POWER
MORRIS FORMAN	KY0022411	804 N ARBOR DR	11/10/13 1:05: PM 1	1/18/13 03:40 AM	8750	Sewer Manhole	00056-W	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2060887 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	12/22/13 7:07: AM 1	2/22/13 08:15 AM		Sewer Manhole	00056-W	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085573 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	806 PINE WAY	10/06/13 3:15: AM 1	0/06/13 07:45 AM	2700	Sewer Manhole	0057-W	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030750 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	10/06/13 1:30: PM 1	0/07/13 01:30 AM	36000	Sewer Manhole	00746	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	2031319 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	11/10/13 1:05: PM 1	1/18/13 03:40 AM	4375	Sewer Manhole	00746	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2060889 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	804 N ARBOR DR	12/22/13 7:07: AM 1	2/22/13 08:15 AM	600	Sewer Manhole	00746	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085569 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	806 PINE WAY	11/10/13 1:15: PM 1	1/18/13 01:15 AM	7200	Sewer Manhole	00817	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2060890 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	806 PINE WAY	12/22/13 1:30: AM 1	2/22/13 07:39 AM	9225	Sewer Manhole	00817	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	2085554 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	11/17/13 12:34: PM 1	1/17/13 07:43 PM	13000	Sewer Manhole	02935	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061009 DISCLN WO# 2061327	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4341 PRUITT CT	10/06/13 1:30: PM 1	0/07/13 12:33 PM	21000	Sewer Manhole	08430	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031267 DISCLN WO# 2032173	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	10/05/13 2:18: PM 1	0/06/13 11:58 AM	37000	Sewer Manhole	08717	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030667 DISCLN WO# 2032057	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	10/30/13 5:37: AM 1	0/30/13 08:22 AM	5000	Sewer Manhole	08717	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045224 DISCLN WO# 2048106	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	11/17/13 9:28: AM 1	1/18/13 06:10 PM	249600	Sewer Manhole	08717	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060934 DISCLN WO# 2061073	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	12/22/13 6:45: AM 1	2/23/13 01:24 AM		Sewer Manhole	08717	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085629 DISCLN WO# 2085829	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN		1001 BRECKENRIDGE LN	10/05/13 9:39: PM 1	0/07/13 01:13 PM	11307180	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031222 NO CLEAN UP OCCURRED, PIPE DISCHARGE SUBMERGED	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Overflow Stop Date & Time Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	11/17/13 9:13: AM 11/18/13 11:26 AM	5019348	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060923	NO CLEAN UP POSSIBLE - PIPE DISCHARGE SUBMERGED	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	12/21/13 12:31: PM 12/23/13 01:16 AM	6282652	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085473	NO CLEANUP POSSIBLE, PIPE DISCHARGE SUBMERGED	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2324 NEWBURG RD	10/06/13 7:55: AM 10/06/13 01:00 PM	15000	Sewer Manhole	08961	STREAM	SOUTH FORK BEARGRASS CREEK	System Capicity	LACK OF SYSTEM CAPACITY	2031288	MSD raked the area and applied lime	None Needed. We had to wait till Beargrass Creek Lowered and the sewer receeded.
MORRIS FORMAN	KY0022411	2324 NEWBURG RD	10/06/13 7:55: AM 10/06/13 01:00 PM	15000	Sewer Manhole	08961A	STREAM	SOUTH FORK BEARGRASS CREEK	System Capacity	LACK OF SYSTEM CAPACITY	2031289	MSD raked the area and applied lime.	None Needed. We had to wait till Beargrass Creek Lowered and the sewer receded.
MORRIS FORMAN	KY0022411	4119 LEE AVE	10/05/13 11:05: PM 10/06/13 07:47 PM	180000	Sewer Manhole	104231	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031234	DISCLN WO# 2031510	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	12/22/13 6:55: AM 12/23/13 01:36 AM	15000	Sewer Manhole	104231	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085635	DISCLN WO# 2085844	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	7713 WESTPORT RD	10/06/13 1:18: AM 10/07/13 11:36 AM	64000	Sewer Manhole	105936	GROUND	GOOSE CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031230	DISCLN WO# 2034113	LOCATION INCLUED IN THE IOAP
MORRIS FORMAN	KY0022411	7713 WESTPORT RD	11/17/13 3:47: PM 11/17/13 08:17 PM	32500	Sewer Manhole	105936	GROUND	GOOSE CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060929	DISLCN WO# 2061076	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1562 MCKAY AVE	10/05/13 11:02: PM 10/06/13 07:54 PM	32000	Sewer Manhole	13931	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031246	DISCLN WO# 2031915	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1562 MCKAY AVE	12/22/13 7:10: AM 12/23/13 01:41 AM		Sewer Manhole	13931	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085642	DISCLN WO# 2085856	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	10/05/13 11:05: PM 10/06/13 07:48 PM		Sewer Manhole	13943	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031235	DISCLN WO# 2031527	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	11/17/13 9:24: AM 11/17/13 11:35 PM	1500	Sewer Manhole	13943	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060984	DISCLN WO# 2061388	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	12/22/13 6:59: AM 12/23/13 01:37 AM	3000	Sewer Manhole	13943	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OFSYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085636	DISCLN WO# 2085845	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1600 BELMAR DR	10/06/13 10:59: PM 10/07/13 11:30 PM	24000	Sewer Manhole	13946	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030675	DISCLN WO# 2032092	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1600 BELMAR DR	10/30/13 5:47: AM 10/30/13 12:14 PM		Sewer Manhole	13946	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045201	DISCLN WO# 2048099	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1600 BELMAR DR	11/17/13 2:00: PM 11/18/13 01:12 AM	72000	Sewer Manhole	13946	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061211	DISCLN WO# 2061491	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1600 BELMAR DR	12/22/13 7:05: AM 12/23/13 01:33 AM	49500	Sewer Manhole	13946	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085645	DISCLN WO# 2085861	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1726 FRASER DR	10/05/13 3:00: PM 10/07/13 10:48 AM		Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031233	DISLCN WO# 2031913	LOCATION INCLUDEDIN THE IOAP
MORRIS FORMAN	KY0022411	1726 FRASER DR	11/17/13 7:30: AM 11/18/13 10:15 AM	72000	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060927	DISCLN WO# 2061372	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1726 FRASER DR	12/21/13 12:21: PM 12/23/13 12:21 PM		Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085474	DISCLN WO# 2085918	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	2201 GERALD CT	10/06/13 2:50: AM	10/06/13 07:11 PM	2000	Sewer Manhole	18298	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	203124	DISCLN WO# 2031554	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2201 GERALD CT	10/06/13 2:51: AM	10/06/13 07:13 PM	2500	Sewer Manhole	18299	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	203124	5 DISCLN WO# 2031586	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4912 DELAWARE DR	10/06/13 1:50: PM	10/07/13 12:30 PM	78000	Sewer Manhole	18654	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031270	DISCLN WO# 2032192	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	207 BRUNSWICK RD	10/06/13 1:08: AM	10/06/13 01:13 PM	29000	Sewer Manhole	21089	CATCH BASIN	UPPER SINKING FORK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	203076	DISCLN WO# 2031869	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	10/05/13 9:10: PM	10/07/13 05:05 PM	378000	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	203123	DISCLN WO# 2032277	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	11/17/13 11:50: AM	11/18/13 09:36 AM	68400	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206099	DISCLN WO# 2061489	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3302 TROUT CREEK DR	12/22/13 6:49: AM	12/23/13 12:10 AM	31000	Sewer Manhole	23211	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	208563	DISCLN WO# 2085851	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	10/05/13 11:53: PM	10/08/13 02:45 AM	226000	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030764	DISCLN WO# 2034200	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3317 BROWNSBORO RD	11/17/13 8:10: AM	11/17/13 07:30 PM	79500	Sewer Manhole	26752	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206092	5 DISCLN WO# 2061531	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1012 ALTA CIR	10/05/13 11:22: PM	10/07/13 05:54 AM	125000	Sewer Manhole	27005	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	203076	3 DISCLN WO# 2031818	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1012 ALTA CIR	11/17/13 11:55: AM	11/18/13 06:28 AM	100000	Sewer Manhole	27005	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206091	DISCLN WO# 2061281	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	8111 SHELBYVILLE RD	10/06/13 12:05: AM	10/07/13 06:46 AM	71000	Sewer Manhole	30376	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030772	2 DISLCN WO# 2031909	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3420 FOUNTAIN DR	10/06/13 11:55: AM	10/07/13 12:23 PM	22500	Sewer Manhole	30680	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031263	3 DISCLN WO# 30680	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3540 FINCASTLE RD	11/17/13 11:21: AM	11/18/13 01:20 AM		Sewer Service Line	34093540	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206120	DISCLN WO# 2061493	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3540 FINCASTLE RD	12/22/13 7:01: AM	12/23/13 12:20 AM	5400	Sewer Service Line	34093540	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085644	DISCLN WO# 2085898	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3542 FINCASTLE RD	11/17/13 11:22: AM	11/18/13 09:26 AM	39400	Sewer Service Line	34093542	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061204	I DISCLN WO# 2061494	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3542 FINCASTLE RD	12/22/13 7:05: AM	12/23/13 05:25 AM	28500	Sewer Service Line	34093542	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	208564	DISCLN WO# 2085900	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3530 FINCASTLE RD	10/05/13 2:22: PM	10/06/13 07:39 PM		Sewer Manhole	36763	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030668	3 DISCLN WO# 2032064	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3530 FINCASTLE RD	10/30/13 5:30: AM	10/30/13 03:24 PM	1500	Sewer Manhole	36763	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045228	3 DISCLN WO# 2048113	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3530 FINCASTLE RD	11/17/13 9:31: AM	11/18/13 01:18 AM	33600	Sewer Manhole	36763	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206093	DISCLN WO# 2061350	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO # Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	3530 FINCASTLE RD	12/22/13 6:47: AM	12/23/13 01:19 AM	39000	Sewer Manhole	36763	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085631 DISCLN WO# 2085832	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3412 FOUNTAIN DR	10/06/13 11:57: AM	10/07/13 12:29 PM	32000	Sewer Service Line	39453412	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031252 DISCLN WO# 2031918	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	5 RIO VISTA DR	12/22/13 5:30: AM	12/23/13 03:25 AM	131500	Sewer Manhole	40879	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085565 CONTRACTOR CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	2 RIO VISTA DR	11/17/13 5:24: PM	11/18/13 05:00 AM	62250	Sewer Manhole	40880	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2060965 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	300 MOCKINGBIRD VALLEY RD	10/06/13 2:16: AM	10/07/13 06:19 AM	74500	Sewer Manhole	41374	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030765 DISCLN WO# 2031822	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	300 MOCKINGBIRD VALLEY RD	12/22/13 6:07: AM	12/23/13 06:58 AM	62000	Sewer Manhole	41374	DITCH	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085617 DISCLN WO# 2086054	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4640 BARBOUR LN	12/22/13 1:30: AM	12/22/13 04:50 AM	30000	Sewer Manhole	42680	STREAM	LITTLE GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085566 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	8409 SABERDEE DR	10/06/13 2:10: AM	10/07/13 03:20 AM	37750	Sewer Manhole	43472	DITCH	GOOSE CREEK	rain event caused a lack of system capacity	LACK OF SYSTEM CAPACITY	2031282 msd cleaned & sanitized the area	site found during rain event recon- will monitor & evaluate for repair
MORRIS FORMAN	KY0022411	8409 SABERDEE DR	11/17/13 5:18: PM	1 11/18/13 01:20 AM	6700	Sewer Manhole	43472	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2060960 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	8409 SABERDEE DR	12/21/13 4:35: PM	12/21/13 04:40 PM	250	Sewer Manhole	43472	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085466 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	8409 SABERDEE DR	12/22/13 5:00: AM	12/23/13 04:10 PM	105500	Sewer Manhole	43472	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085564 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	1108 DUPONT CIR	10/05/13 11:45: PM	10/07/13 06:19 AM	74000	Sewer Manhole	43726	GROUND	WEICHER CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030766 DISCLN WO# 2031860	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2002 MILLVALE RD	10/05/13 10:30: PM	10/07/13 05:48 AM	60000	Sewer Manhole	45829	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030762 DISCLN WO# 2031810	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2002 MILLVALE RD	11/17/13 12:00: PM	11/17/13 07:30 PM		Sewer Manhole	45829	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060918 DISCLN WO# 2061284	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN		1132 ROSTREVOR CIR	10/05/13 11:30: PM	10/07/13 05:40 AM	72000	Sewer Manhole	45835	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030761 DISCLN WO# 2031782	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1132 ROSTREVOR CIR	11/17/13 12:05: PM	11/18/13 06:15 AM	92000	Sewer Manhole	45835	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060920 DISCLN WO# 2061290	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1132 ROSTREVOR CIR	12/22/13 3:24: AM	12/23/13 06:30 AM	55000	Sewer Manhole	45835	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085592 NONE NEEDED-DUE TO MAGNITUDE OF STORM	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	201 BULLITT LN	10/05/13 10:54: PM	10/07/13 12:30 PM	208000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030768 DISCLN WO# 2031872	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	201 BULLITT LN	11/17/13 12:30: PM	11/18/13 05:35 AM	120000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061002 DISCLN WO# 2061495	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	201 BULLITT LN	12/21/13 1:35: PM	12/23/13 06:30 AM	420000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085470 DISCLN WO# 2085916	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	202 OXMOOR LN	10/05/13 11:54: PM	10/07/13 12:30 PM		Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030769	DISCLN WO# 2031875	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	202 OXMOOR LN	11/17/13 12:30: PM	11/17/13 07:45 PM	108000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061003	3 DISCLN WO# 2061319	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	202 OXMOOR LN	12/21/13 5:57: PM	12/23/13 06:30 AM	355000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085469	DISCLN WO# 2085913	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	10/06/13 12:10: AM	10/07/13 06:37 AM	115000	Sewer Manhole	47593	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030771	DISCLN WO# 2031879	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	11/17/13 12:50: PM	11/17/13 07:52 PM	45000	Sewer Manhole	47593	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061030	DISCLN WO# 2061330	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2201 GERALD CT	10/06/13 2:52: AM	10/06/13 07:12 PM	2000	Sewer Manhole	48885	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031243	3 DISCLN WO# 2031581	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2216 FAIRLAND AVE	10/06/13 2:40: AM	10/06/13 06:59 PM	31000	Sewer Manhole	49445	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031248	3 DISCLN WO# 2031916	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	2500 WYETH CT	10/06/13 11:55: AM	10/07/13 01:24 PM	34500	Sewer Manhole	49513	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031264	DISCLN WO# 2032159	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	10/05/13 9:07: PM	10/07/13 04:59 PM	270000	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031236	0 DISCLN WO# 2032267	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	11/17/13 12:16: PM	11/18/13 09:39 AM	199500	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060992	2 DISCLN WO# 2061393	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3305 INDIAN CREEK CT	12/22/13 6:43: AM	12/23/13 06:01 AM	12000	Sewer Manhole	51160	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085638	3 DISCLN WO# 2085785	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	10/05/13 2:30: PM	10/06/13 07:34 PM	108000	Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030671	DISCLN WO# 2032086	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	10/30/13 5:50: AM	10/30/13 09:03 AM		Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045236	DISCLN WO# 2048119	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	11/17/13 10:32: AM	11/17/13 11:29 PM	12600	Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060941	DISCLN WO# 2061382	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	12/22/13 6:10: AM	12/23/13 12:49 AM	21000	Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085634	DISCLN WO# 2085841	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1910 CHARBDIN PL	10/06/13 1:51: AM	10/07/13 11:53 AM	45000	Sewer Manhole	65606	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031229	DISCLN WO# 2031912	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1910 CHARBDIN PL	12/22/13 6:18: AM	12/23/13 12:10 AM	15500	Sewer Manhole	65606	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085620	DISCLN WO# 2085823	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1804 ROUND RIDGE RD	10/06/13 12:31: PM	10/07/13 11:50 AM	47500	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031232	2 DISCLN WO# 2031773	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1804 ROUND RIDGE RD	11/17/13 2:16: PM	11/18/13 07:06 AM	78000	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060999) DISCLN WO# 2061294	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1804 ROUND RIDGE RD	12/22/13 5:45: AM	12/23/13 06:47 AM	60000	Sewer Manhole	65623	STREAM	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085613	3 DISCLN WO# 2085931	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO # Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	2504 WYETH CT	10/06/13 11:50: AM		37500	Sewer Manhole	66232	STREAM	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031265 DISCLN WO# 2032163	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	10/05/13 2:17: PM	10/06/13 07:44 PM	7200	Sewer Manhole	66349	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030669 DISCLN WO# 2032075	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	10/30/13 5:36: AM	10/30/13 03:24 PM		Sewer Manhole	66349	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045206 DISCLN WO# 2048102	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	11/17/13 9:27: AM	11/18/13 01:18 AM	75000	Sewer Manhole	66349	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060932 DISCLN WO# 2061255	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	10/05/13 11:00: PM	10/07/13 06:01 AM	82000	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031228 DISLCN WO# 2031910	LOCATIO INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	12/22/13 6:12: AM	12/23/13 10:17 AM	62000	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085619 DISCLN WO# 2086056	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	10/06/13 12:20: AM	10/07/13 06:55 AM	55000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030773 DISCLN WO# 2031363	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	11/17/13 1:30: PM	11/17/13 07:55 PM	19500	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061034 DISCLN WO# 2061079	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	12/22/13 6:10: AM	12/23/13 06:30 AM	12000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085618 DISCLN WO# 2085788	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4307 PRUITT CT	10/06/13 1:00: PM	10/07/13 12:32 PM	19000	Sewer Service Line	85065	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031266 DISCLN WO# 2032167	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4317 PRUITT CT	10/06/13 1:20: PM	10/07/13 12:35 PM	22000	Sewer Service Line	85075	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031268 DISCLN WO# 2032180	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4319 PRUITT CT	10/06/13 2:30: PM	10/07/13 12:34 PM	22500	Sewer Service Line	85076	GROUND	BUECHEL BRANCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031269 DISCLN WO# 2032187	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	37 ARROWHEAD RD	12/22/13 6:00: AM	12/23/13 12:25 AM	19500	Sewer Manhole	89791	GROUND	MUDDY FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085614 NONE NEEDED DUE TO MAGNITUDE OF THE STORM	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	10/06/13 2:34: AM	10/07/13 06:30 AM	62000	Sewer Manhole	90700	CATCH BASIN	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030770 DISCLN WO# 2031364	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	8021 CHRISTIAN CT	11/17/13 12:43: PM	11/17/13 07:49 PM	21000	Sewer Manhole	90700	CATCH BASIN	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2061028 DISCLN WO# 2061077	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3536 FINCASTLE RD	10/05/13 2:23: PM	10/06/13 07:40 PM		Sewer Manhole	99259	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030670 DISCLN WO# 2032081	LOCATION INCUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3536 FINCASTLE RD	10/30/13 5:31: AM	10/30/13 12:10 PM	6000	Sewer Manhole	99259	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2045232 DISCLN WO# 2048118	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3536 FINCASTLE RD	11/17/13 9:32: AM	11/18/13 01:19 AM		Sewer Manhole	99259	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060940 DISCLN WO# 2061380	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3536 FINCASTLE RD	12/22/13 6:48: AM	12/23/13 02:06 AM	5700	Sewer Manhole	99259	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2085633 DISCLN WO# 2085834	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3305 BENT CREEK CT	10/05/13 9:13: PM	10/07/13 12:12 PM	26000	Sewer Service Line	BU05074039	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031238 DISCLN WO# 2031914	LOCATION INCLUDED IN THE IOAP

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	3305 BENT CREEK CT	11/17/13 12:06: PM	11/18/13 09:43 AM	75000 Sewer Service Line	BU05074039	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2060993	7 DISCLN WO# 2061490	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3305 BENT CREEK CT	12/22/13 6:57: AM	12/23/13 12:12 AM	67500 Sewer Service Line	BU05074039	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	208564	DISCLN WO# 2085854	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3303 TROUT CREEK DR	10/05/13 9:15: PM	10/06/13 07:18 PM	1500 Sewer Service Line	BU05091039	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2031240	DISCLN WO# 2031536	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1212 ROYAL AVE	12/02/13 12:19: PM	12/02/13 01:24 PM	13 Sewer Manhole	CSO106	STREAM	SOUTH FORK BEARGRASS CREEK	DEBRIS WAS CAUGHT UP IN DROP INLET AREA OF NEXT MANHOLE DOWNSTREAM.	ROOTS	206998	NONE REQUIRED. DISCHARGE FLOWING DIRECTLY TO CREEK.	FLUSHED LINE AND GOT OPEN.
MORRIS FORMAN	KY0022411	1820 DRESCHER BRIDGE AVE	12/13/13 8:00: AM	12/13/13 09:45 AM	64656 Sewer Manhole	CSO167	STREAM	MUDDY FORK BEARGRASS CREEK	WATER MAIN BREAK AT BROWNSBORO RD AND DRESCHER BRIDGE AVE	UTILITY DAMAGED MSD ASSET	2080483	2 NO CLEANUP INITIATED UNTIL WATER MAINS REPAIRED	WATER MAIN SHUT DOWN, WATER MAIN REPAIRS UNDERWAY
MORRIS FORMAN	KY0022411	4108 LEE AVE	11/17/13 9:22: AM	11/17/13 06:31 PM	1200 Sewer Service Line	KK14815019	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	206098	3 DISCLN WO# 2061391	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4108 LEE AVE	12/22/13 7:00: AM	12/23/13 01:38 AM	1000 Sewer Service Line	KK14815019	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	208563	7 DISCLN WO# 2085848	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	7404 ARROWWOOD RD	10/05/13 10:26: PM	10/07/13 02:20 AM	83700 Sewer Lift Station	MSD0040-PS	DITCH	GOOSE CREEK	rain event caused lack of system capacity	LACK OF SYSTEM CAPACITY	2031284	msd cleaned & sanitized the area	site found during rain event recon- will monitor & evaluate for repair
MORRIS FORMAN	KY0022411	7404 ARROWWOOD RD	11/17/13 5:09: PM	11/18/13 01:40 AM	7000 Sewer Lift Station	MSD0040-PS	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	206095	3 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	7404 ARROWWOOD RD	12/21/13 10:10: PM	12/22/13 04:20 PM	109200 Sewer Lift Station	MSD0040-PS	DITCH	GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2085549	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	1701 SONNE AVE	12/22/13 3:10: AM	12/22/13 03:15 AM	5 Sewer Lift Station	MSD0042-PS	GROUND	PADDY RUN	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	208556	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	4200 RETREAT RD	10/06/13 5:00: AM	10/06/13 04:00 PM	132000 Sewer Lift Station	MSD0119-PS	GROUND	BLUE SPRING DITCH	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	PUMPED OVERFLOW	203074	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
MORRIS FORMAN	KY0022411	2120 INDIAN HILLS TRL	10/06/13 8:30: AM	10/07/13 03:00 AM	5850 Sewer Lift Station	MSD0186-PS	DITCH	MUDDY FORK BEARGRASS CREEK	lack of system capacity	LACK OF SYSTEM CAPACITY	203122	contractor cleaned & sanitized the area	site found during rain event recon- will monitor & evaluate for repair
MORRIS FORMAN	KY0022411	4640 BARBOUR LN	11/17/13 5:04: PM	11/17/13 04:34 PM	20550 Sewer Lift Station	MSD0192-PS	STREAM	LITTLE GOOSE CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	206095	5 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
CEDAR CREEK	KY0098540	9905 FAIRMOUNT RD	10/06/13 1:20: PM	10/06/13 07:17 PM	1504 Sewer Manhole	81710	GROUND	BIG RUN	LACK OF CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	2031303	3 MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
CEDAR CREEK	KY0098540	8605 CEDAR CREEK RD	10/06/13 10:02: AM	10/06/13 10:10 AM	80 Sewer Treatment Plant	MSD0289	GROUND	CEDAR CREEK	excessive flow came out of channel ahead of parshal flume	BYPASS AT WQTC	203122	no clean up	no action rain event caused excessive flow
HUNTING CREEK NORTH	KY0029106	9810 U S HIGHWAY 42	12/24/13 9:40: AM	12/24/13 09:55 AM	4425 Sewer Treatment Plant	MSD0291	STREAM	HARRODS CREEK	stopped up returns on #2 clarifier caused solids to flow out plant effluent	BYPASS AT WQTC	2086193	2 msd cleaned and sanitized plant effluent area	unclogged returns on clarifier #2
HUNTING CREEK SOUTH	KY0029114	6206 DEEP CREEK DR	12/22/13 6:05: AM	12/23/13 05:30 AM	21000 Sewer Manhole	62752	GROUND	HARRODS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	208561	NONE NEEDED DUE TO MAGNITUDE OF STORM	MSD CREWS WORKING IN THE AREA. ROOTS CUT. SEE SERVICE REQUEST 4256142
HUNTING CREEK SOUTH	KY0029114	6302 DEEP CREEK DR	12/26/13 9:45: AM	12/26/13 10:33 AM	500 Sewer Manhole	66585	CATCH BASIN	HARRODS CREEK	ROOTS IN MAIN SEWER	ROOTS	2086360	MSD PERSONNEL CLEANED THE IMPACTED AREA	WORK ORDER #2086362, 2086393; ROOT CUT THE MAIN TO REOPEN
HUNTING CREEK SOUTH	KY0029114	6210 DEEP CREEK CT	10/06/13 1:24: AM	10/06/13 04:45 PM	92100 Sewer Lift Station	MSD1063-PS	DITCH	HARRODS CREEK	rain event caused lack of system capacity	LACK OF SYSTEM CAPACITY	203128	r msd cleaned & sanitized the area	site found during rain event recon- will monitor & evaluate for repair

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
FLOYDS FORK		815 TUCKER STATION RD	10/06/13 12:30: AM	10/06/13 03:00 AM	5250 Sewer Manhole	33003	STREAM	POPE LICK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	2030715	CREATED DISCLN WO#2030748	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
FLOYDS FORK	KY0102784	15026 BIRCHAM RD	10/06/13 7:30: AM	10/06/13 05:00 PM	28500 Sewer Manhole	69305	GROUND	FLOYDS FORK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	2030751	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
SHADOW WOOD		5489 FOREST LAKE DR	11/08/13 12:30: PM	11/08/13 07:00 PM	500 Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREE	K LAGOON LEAKING	BYPASS AT WQTC	2050519	MSD CLEANED & SANITIZED	PUMPED DOWN LAGOON & CONTRACTOR REPAIRED
SHADOW WOOD		5489 FOREST LAKE DR	11/21/13 1:44: PM	11/21/13 07:30 PM	100 Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREE	K LAGOON LEAKING	BYPASS AT WQTC	2062347	MSD CLEANED & SANITIZED THE AREA	PUMPED DOWN LAGOON & CONTRACTOR REPAIRED
SHADOW WOOD		5489 FOREST LAKE DR	12/03/13 12:10: PM	12/03/13 06:57 PM	407 Sewer Treatment Plant	MSD0404	GROUND	HARRODS CREE	K LAGOON LEAKING	BYPASS AT WQTC	2070396	MSD CLEANED & SANITIZED THE AREA	MSD EMPLOYEES PUMPED THE LAGOON DOWN
NO PLANT-GOES TO STREAM/RIVER		2324 NEWBURG RD	10/06/13 7:55: AM	10/06/13 01:00 PM	30000 Sewer Manhole	93135	GROUND	SOUTH FORK BEARGRASS CREEK	System Capicity	LACK OF SYSTEM CAPACITY	2031290	MSD raked the area and applied lime	None Needed. We had to wait until Beargrass Creek Lowered and the sewer receded.

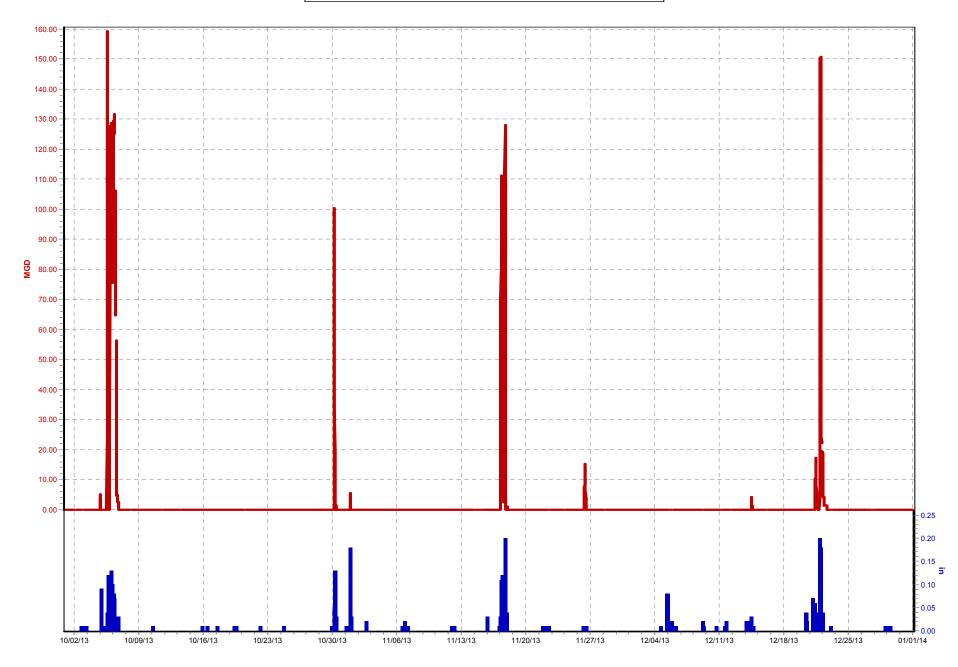


Appendix B – CSO Flow Monitoring Data



CSO015 Bells Lane (10/01/13 to 01/01/14)

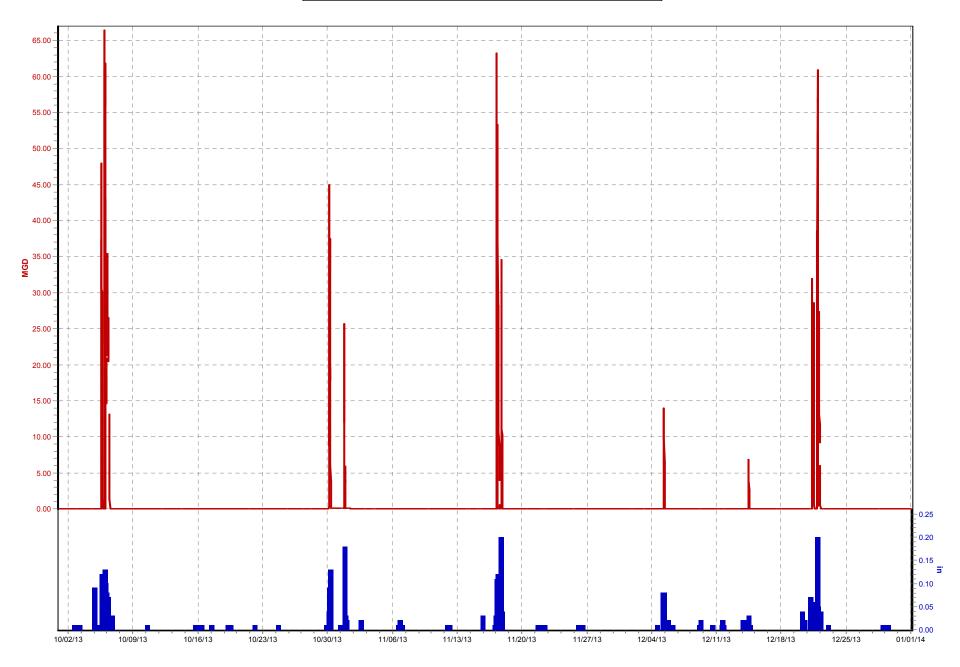
Raw Flow (MGD)



CSO016 Winnrose Way (10/01/13 to 01/01/14) **~**

- Raw Flow (MGD) **I**

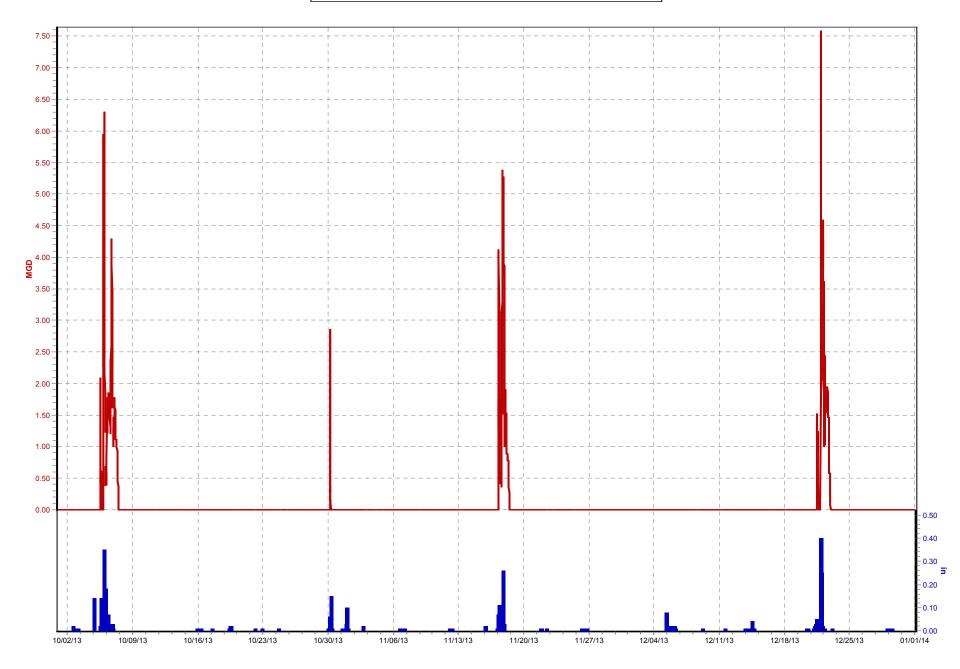
TR04_Morris Forman WQTC.Rain (in)



CSO018 Nightingale Rd (10/01/13 to 01/01/14)

- Nightingale PS.CSO018 Flow (MGD)
TR12_Nightingale PS.Rain (in)

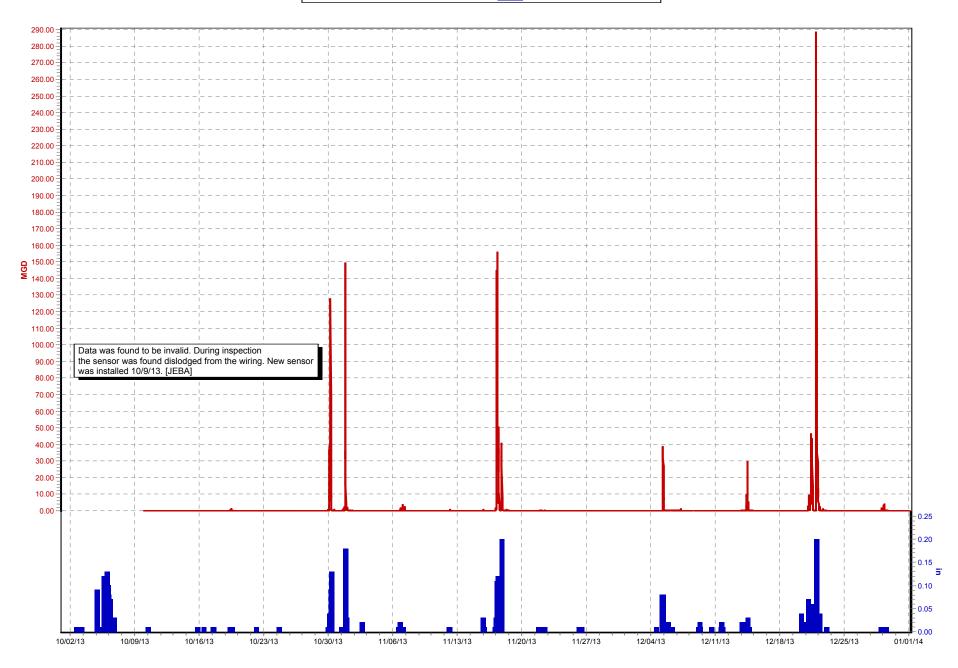
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CSO019 34th and Rudd (10/01/13 to 01/01/14) **V**

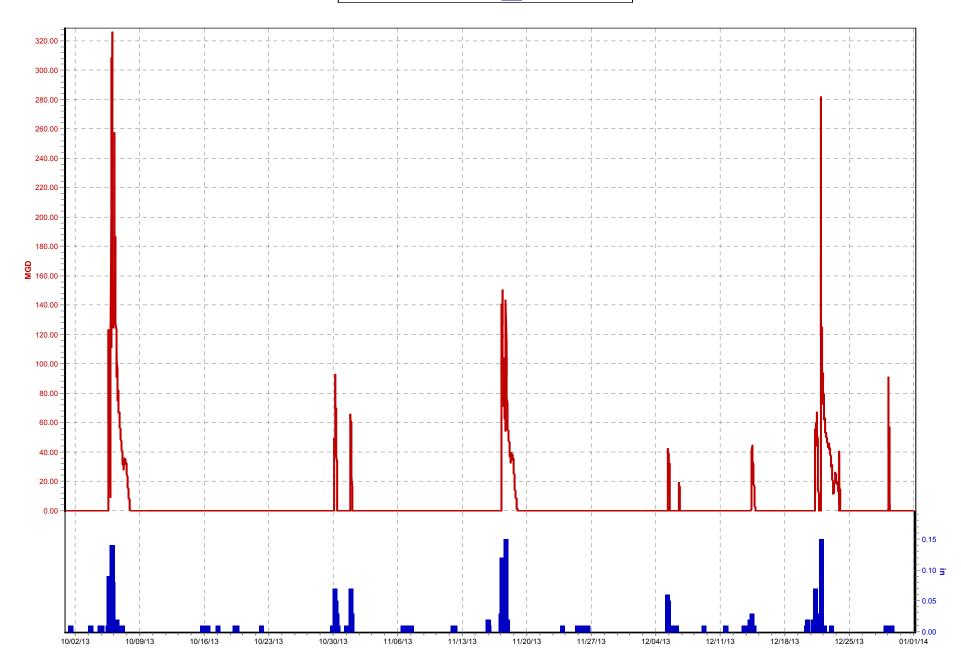
- Final Flow (MGD)

TR04_Morris Forman WQTC.Rain (in)



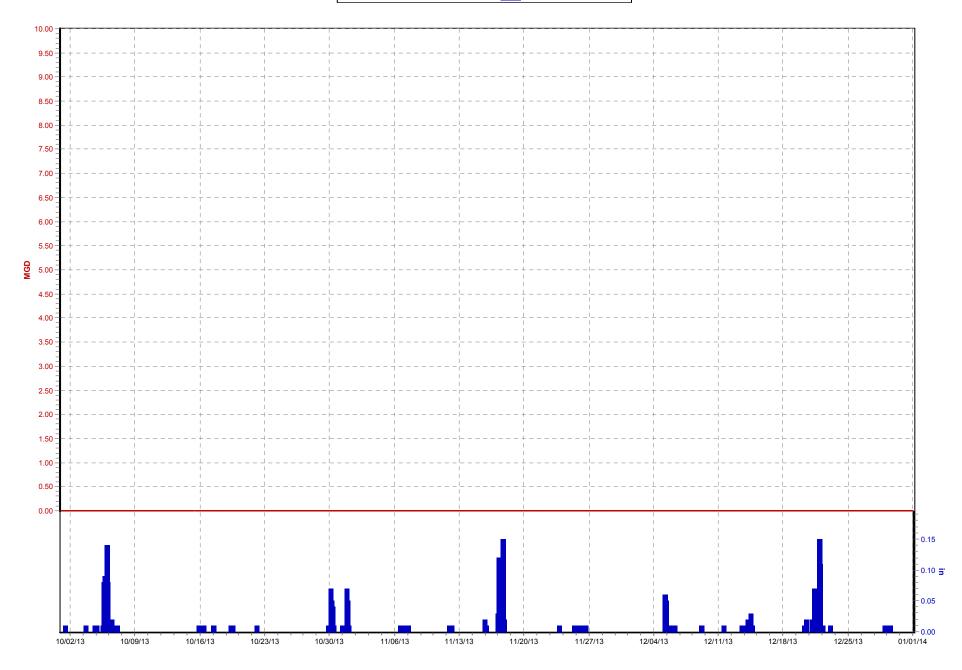
CSO020 Buchanan St by Stark PS (10/01/13 to 01/01/14)

Flow (MGD) TR05_Beargrass PS.Rain (in)



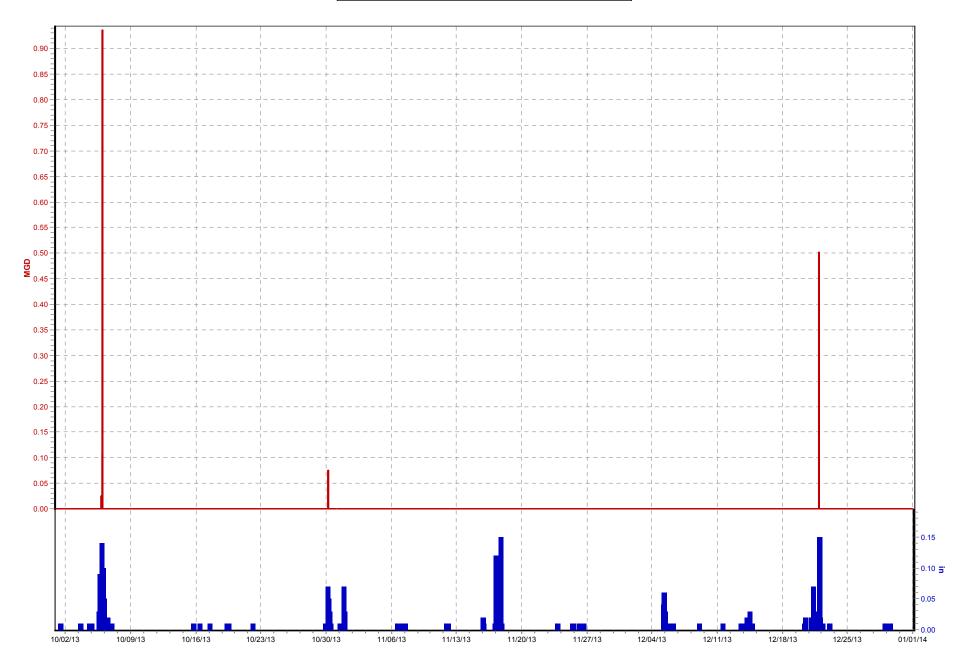
CSO027 7th and Broadway (10/01/13 to 01/01/14)

Flow (MGD) TR05_Beargrass PS.Rain (in)



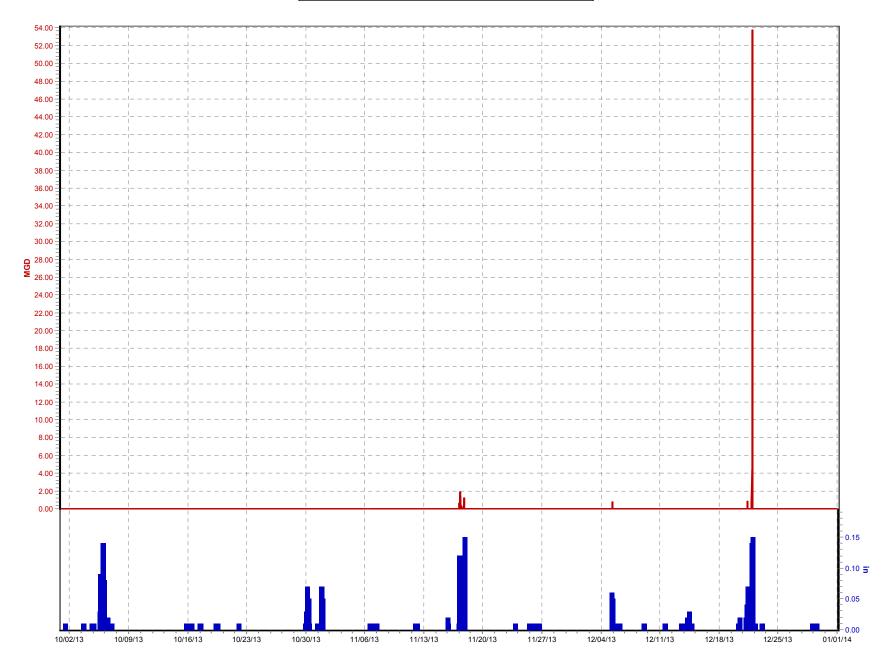
CSO028_6th and York St (10/01/13 to 01/01/14) **V**

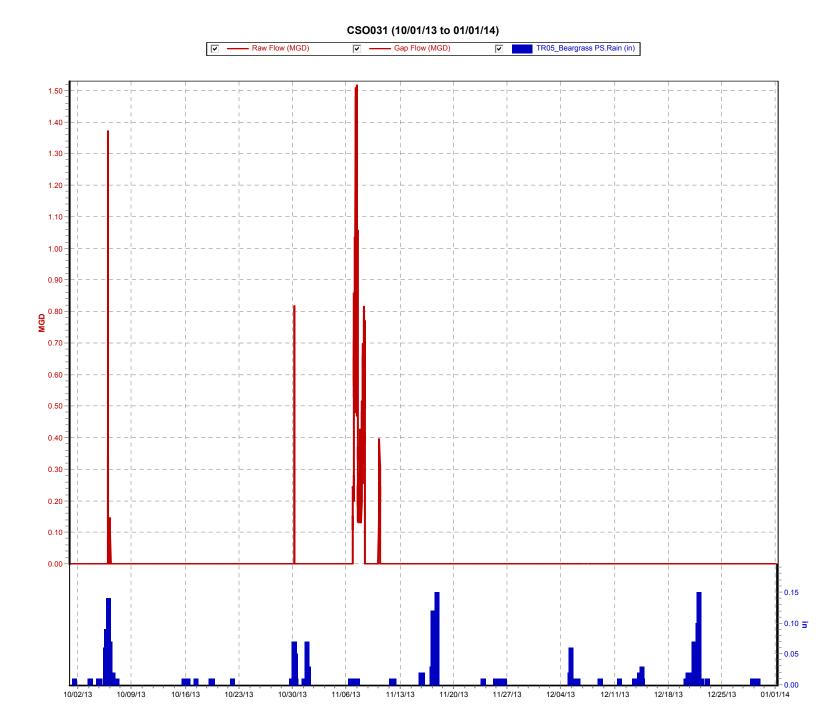
Flow (MGD)



CSO029 Overflow (10/01/13 to 01/01/14) **V**

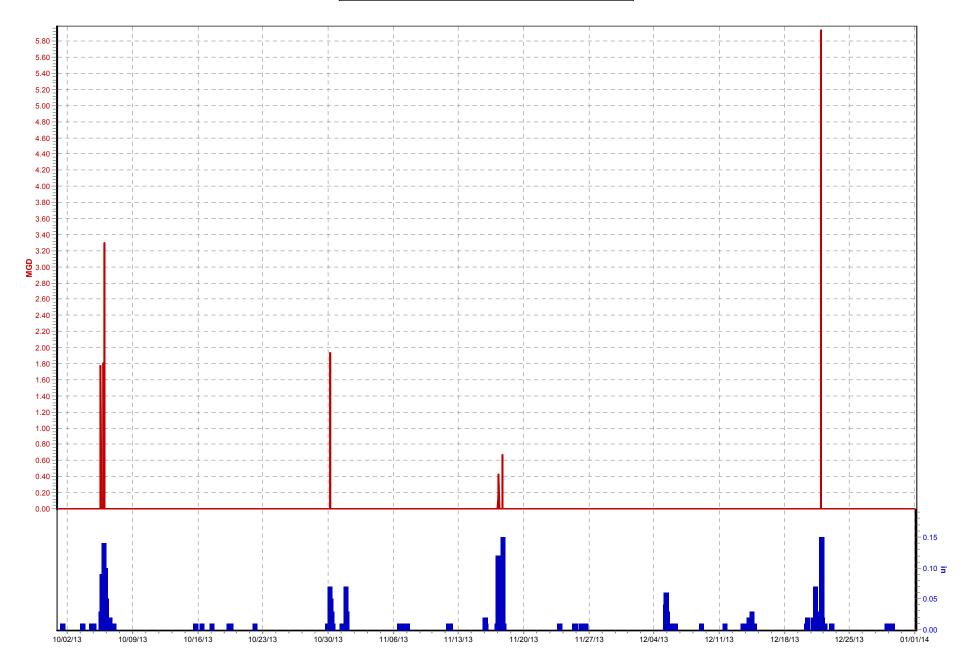
Flow 1 (MGD)





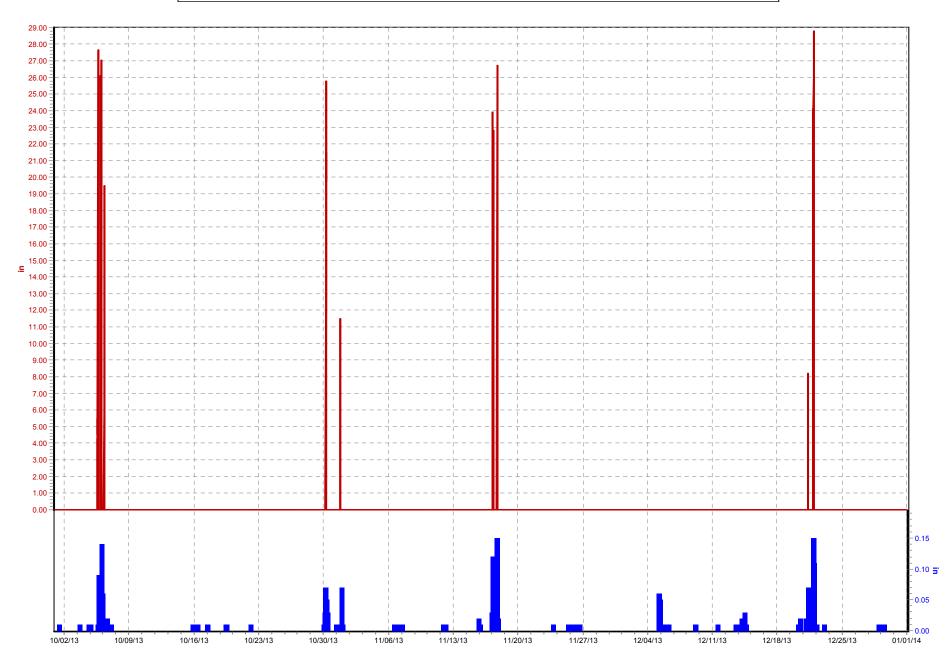
CSO034 4th and York (10/01/13 to 01/01/14)

Flow (MGD)



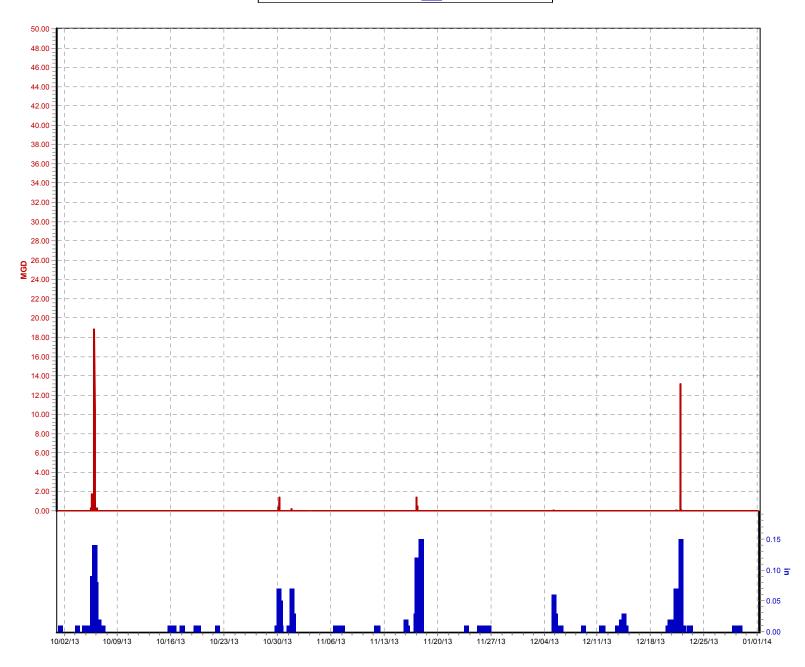
CSO035_Upstream of Dam (10/01/13 to 01/01/14)

CSO 035 Overflow Level (in) CSO 035 _____ CSO 035 _____ TR05_Beargrass PS.Rain (in)



CSO036 3rd and Broadway (10/01/13 to 01/01/14)

Final Flow (MGD) TR05_Beargrass PS.Rain (in)

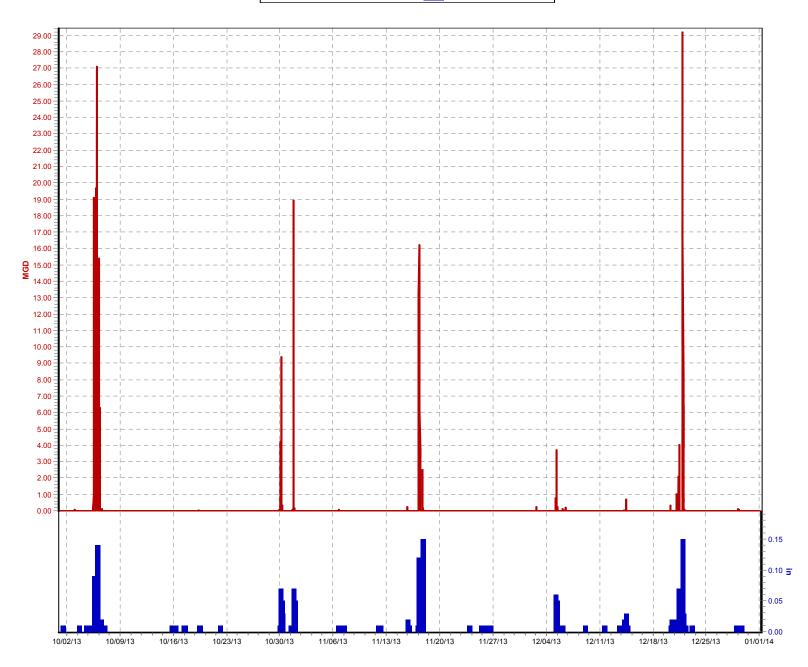


CSO038 5th and Broadway (10/01/13 to 01/01/14)

Flow (MGD)

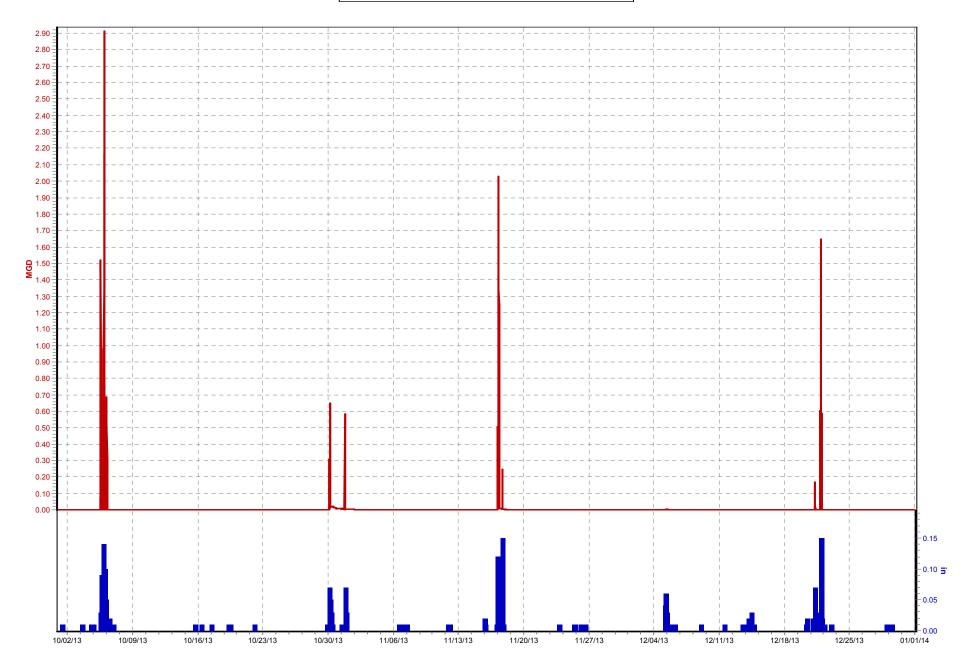
CSO050 12th and Rowan (10/01/13 to 01/01/14)

Final Flow (MGD)



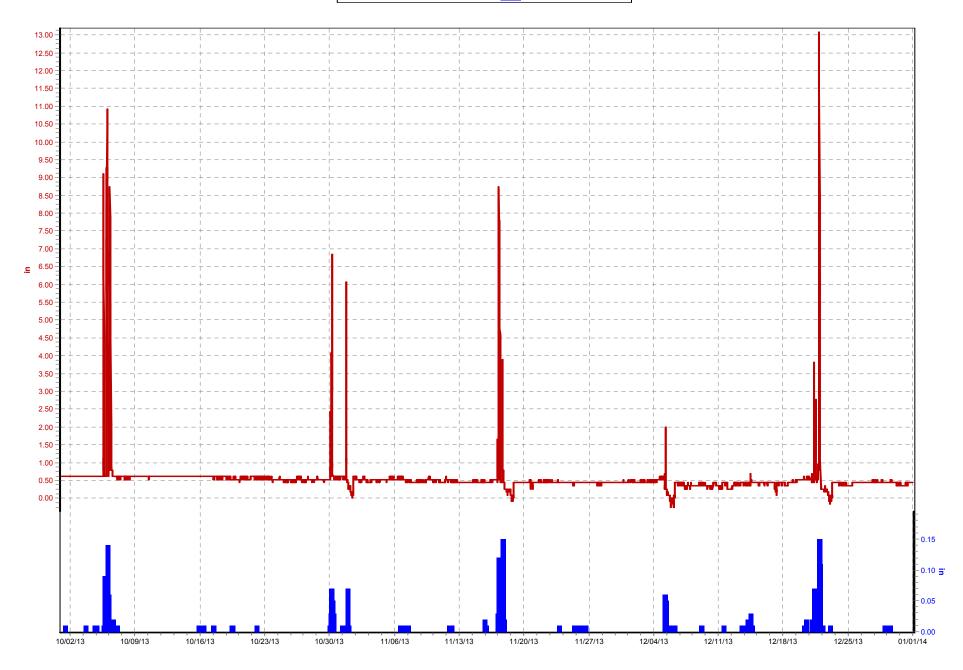
CSO051 11th St and Main St (10/01/13 to 01/01/14)

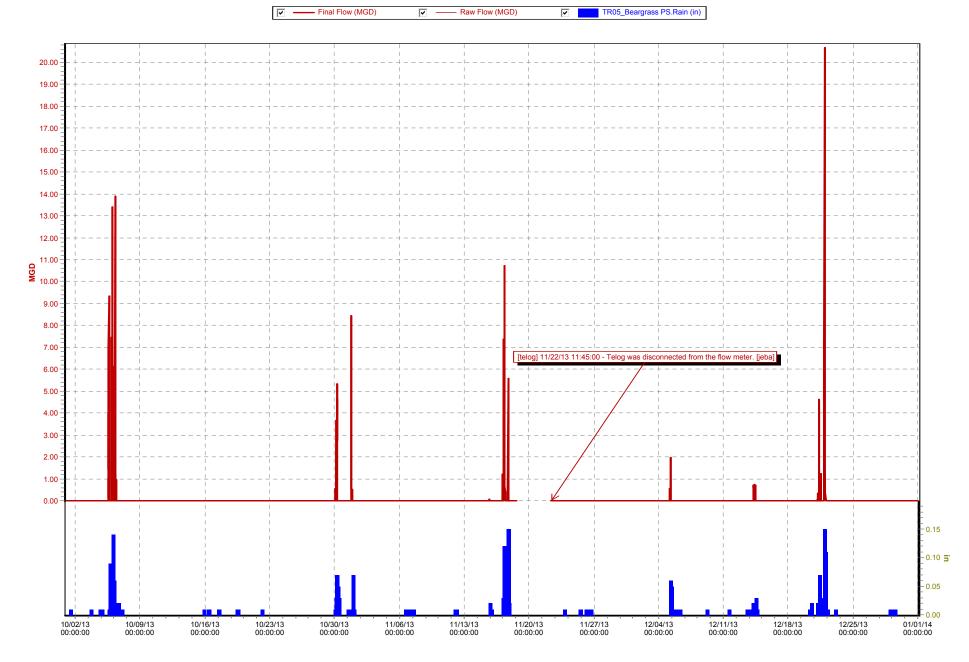
M1 Flow (MGD)



CSO052 10th St (10/01/13 to 01/01/14) **~**

Level (in)

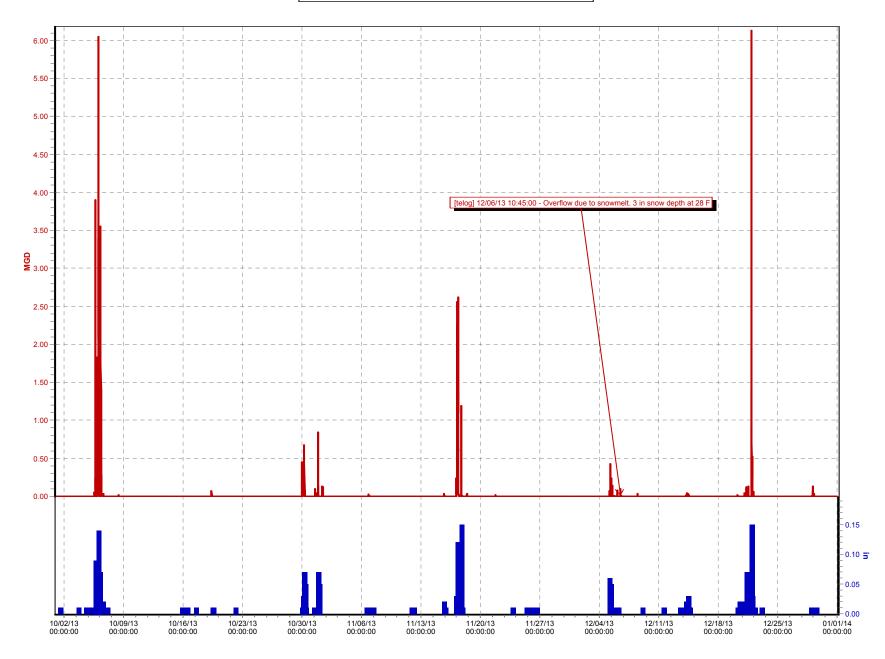


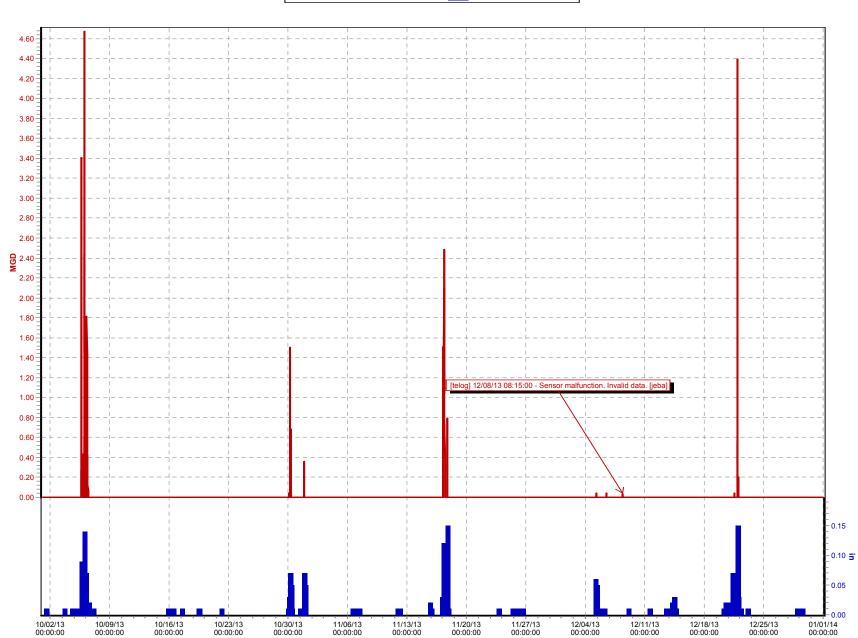


CSO053 7th and Main St (10/01/13 to 01/01/14)

CSO054 7th St (10/01/13 to 01/01/14)

Flow 1 (MGD) TR05_Beargrass PS.Rain (in)

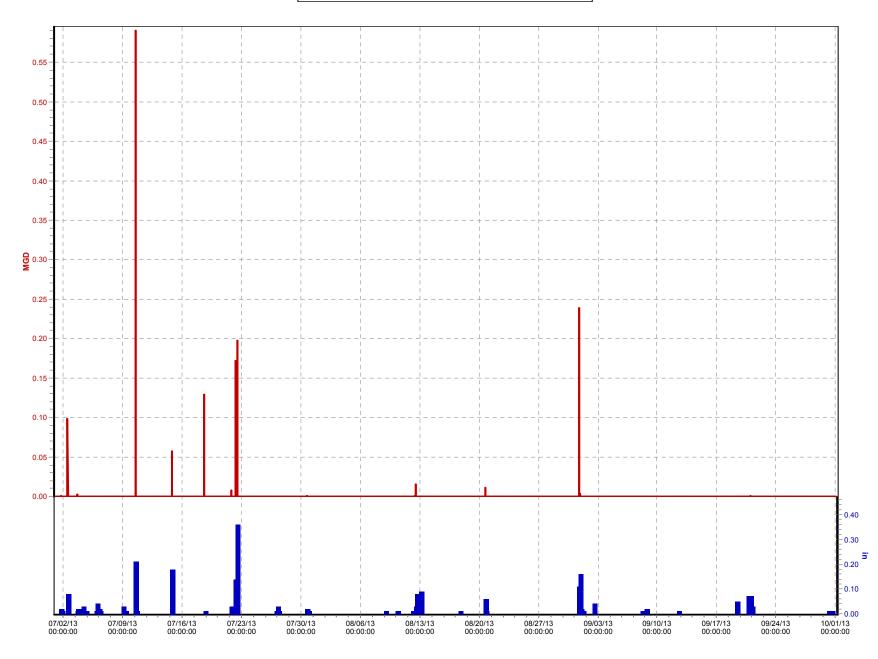




CSO055 6th St (10/01/13 to 01/01/14)

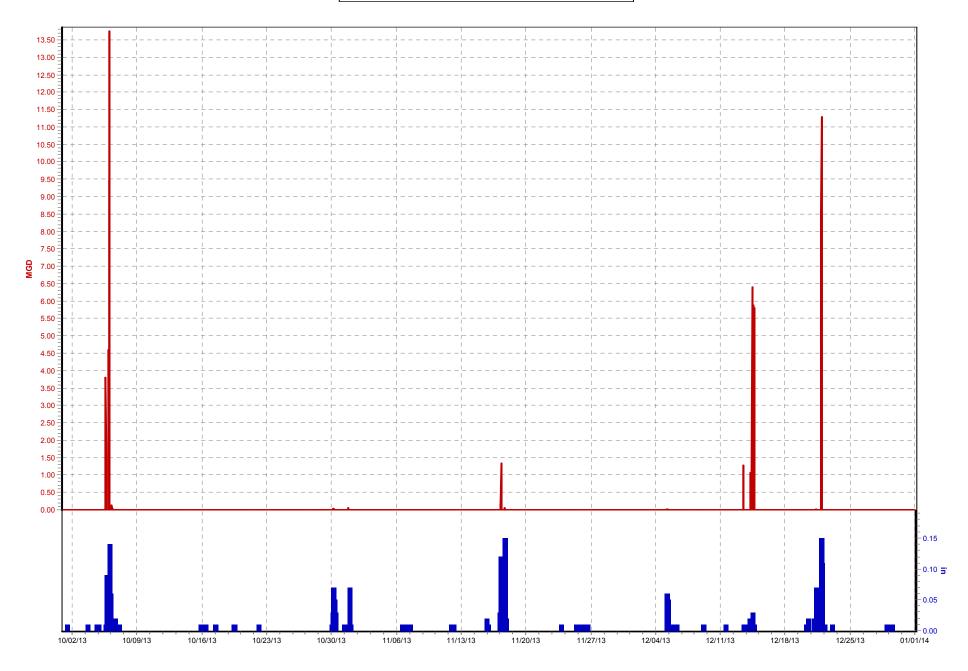
Flow (MGD) TR05_Beargrass PS.Rain (in)

CSO057 1st and Main (07/01/13 to 10/01/13)



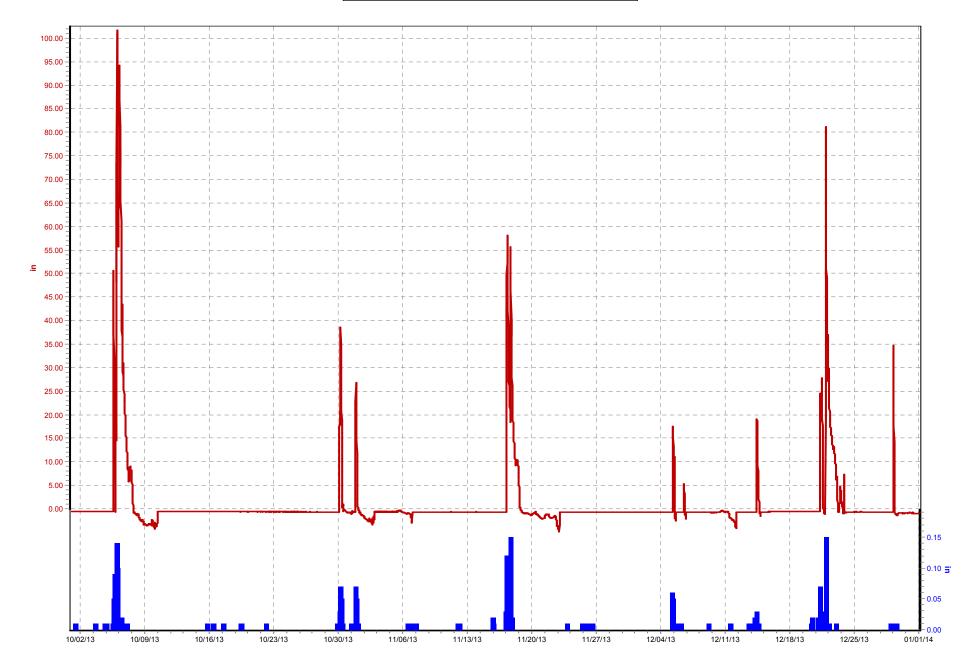
CSO058 at Preston and Main (10/01/13 to 01/01/14) **V**

Flow 1 (MGD)



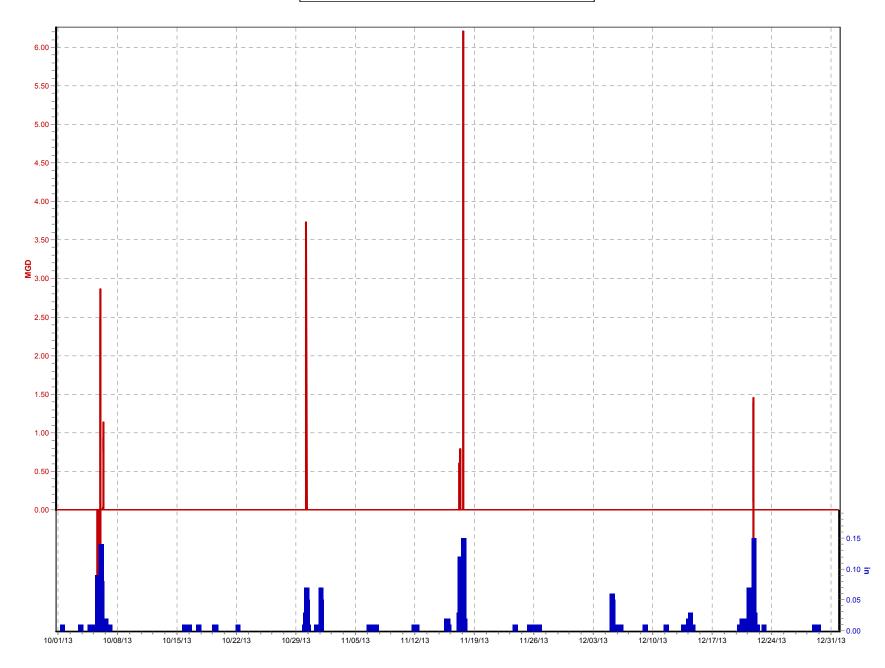
CSO082 Lex Rd (10/01/13 to 01/01/14)

Level (in)



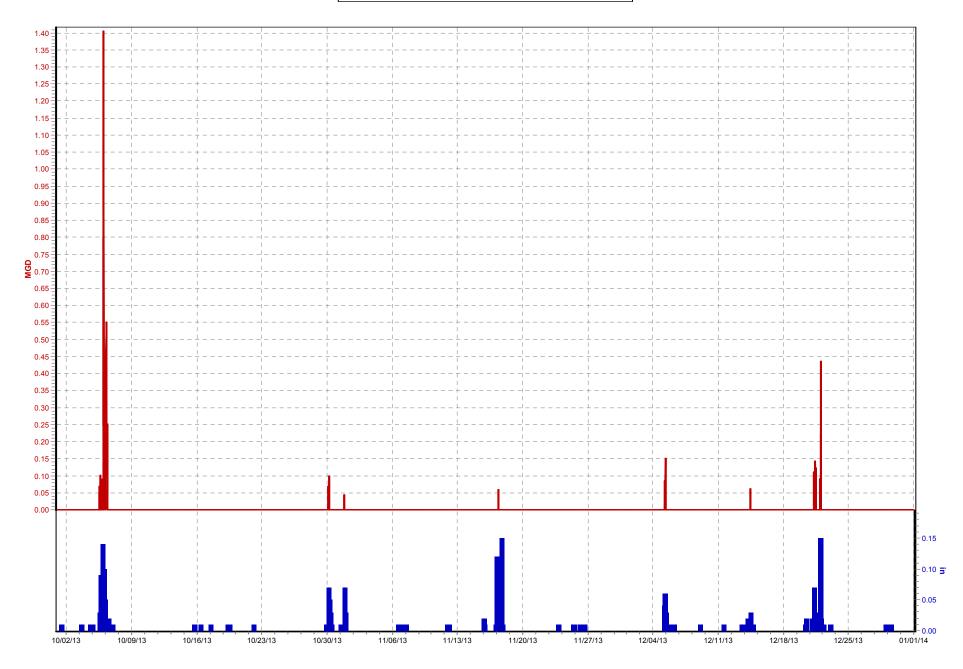
CSO083 E Broadway (09/30/13 to 12/31/13)

M1 Flow (MGD) TR05_Beargrass PS.Rain (in)



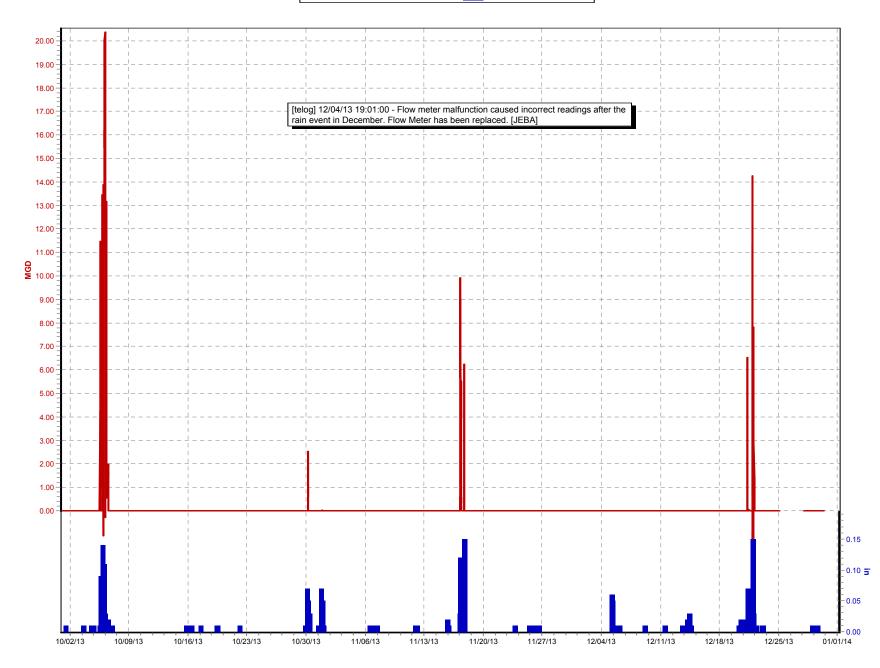
CSO084 Brent St and BGC (10/01/13 to 01/01/14) **V**

Flow 1 (MGD)



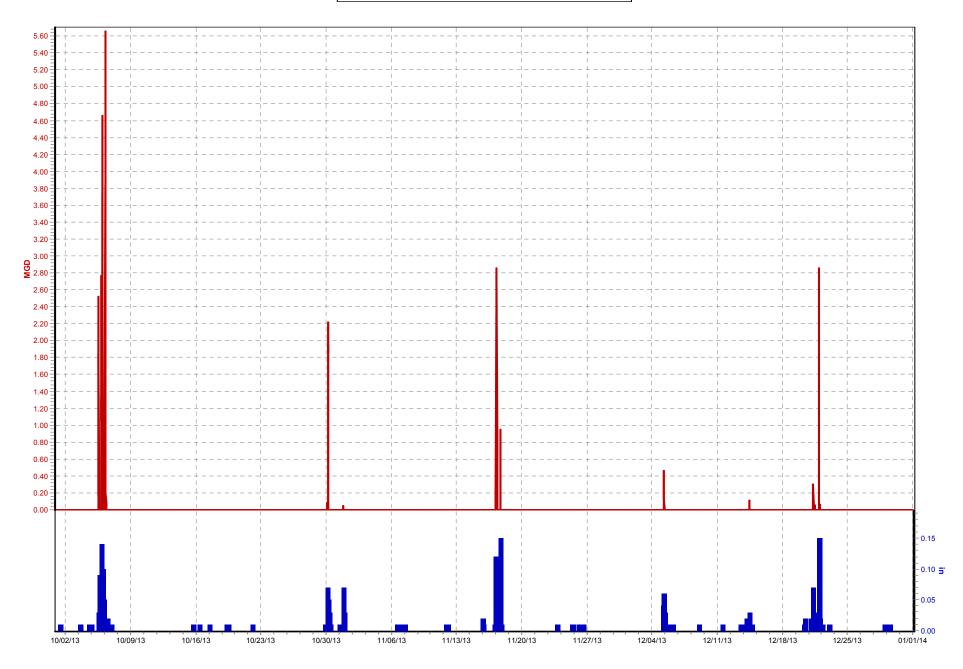
CSO088 Brownsboro Rd-BGC (10/01/13 to 01/01/14)

Adjusted Flow (MGD) TR05_Beargrass PS.Rain (in)



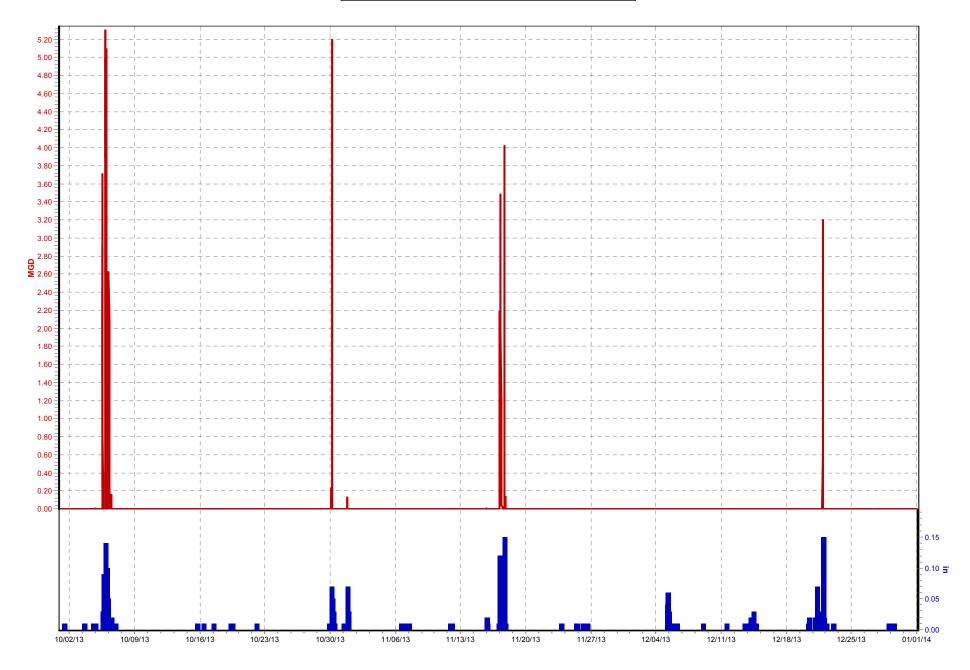
CSO091 Schiller Ave (10/01/13 to 01/01/14)

Flow 1 (MGD)



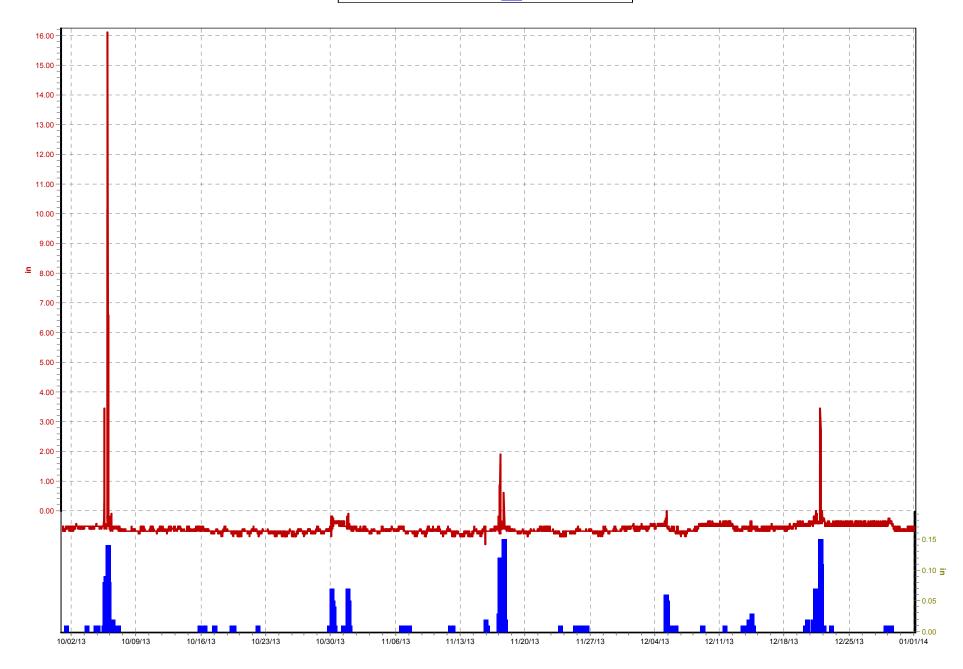
CSO092 Schiller Ave (10/01/13 to 01/01/14)

M1 Flow (MGD)



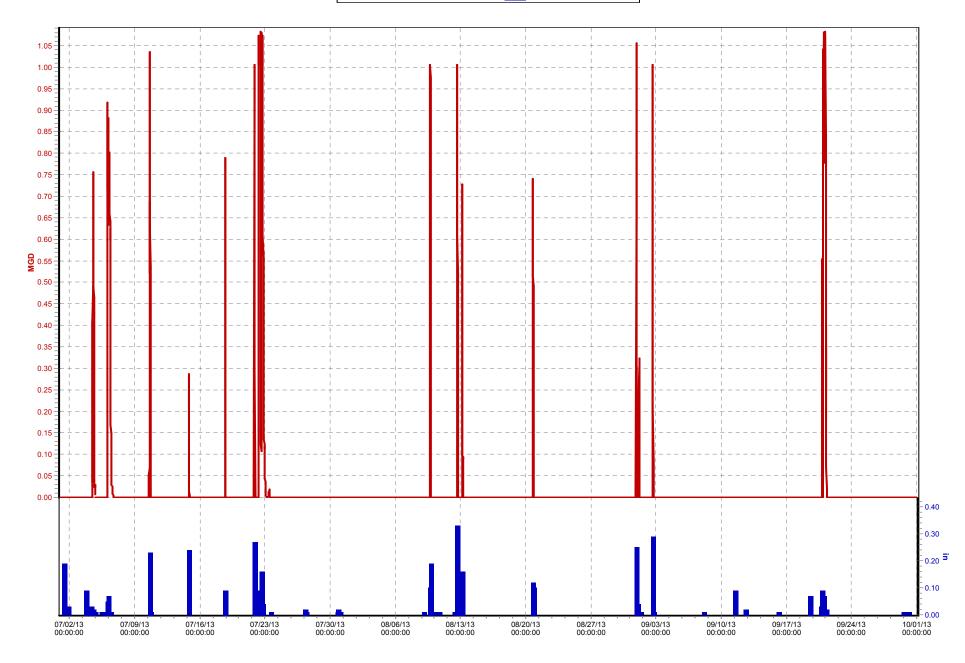
CSO093_Upstream_of_Weir Plate (10/01/13 to 01/01/14)

CSO level (in) TR05_Beargrass PS.Rain (in)



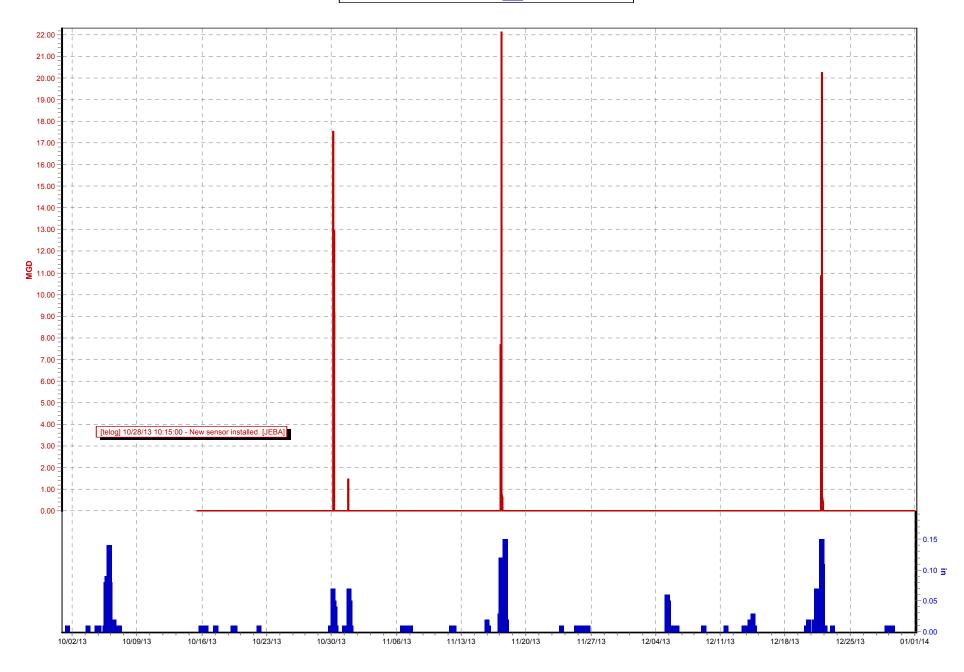
CSO097 Castlevale Dr (07/01/13 to 10/01/13)

C097_FLOW_MGD (MGD) TR12_Nightingale PS.Rain (in)



CSO104 SWest Pkwy and Broadway (10/01/13 to 01/01/14)

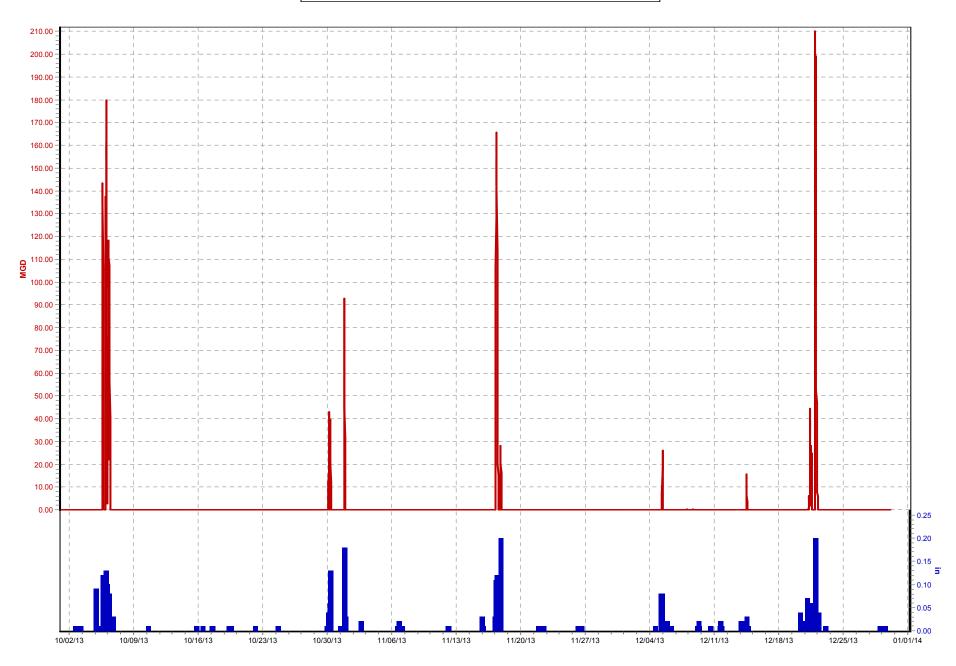
Flow (MGD) TR05_Beargrass PS.Rain (in)



CSO105 Broadway and SWest Pkwy (10/01/13 to 01/01/14) ~

- Flow 1 (MGD) —

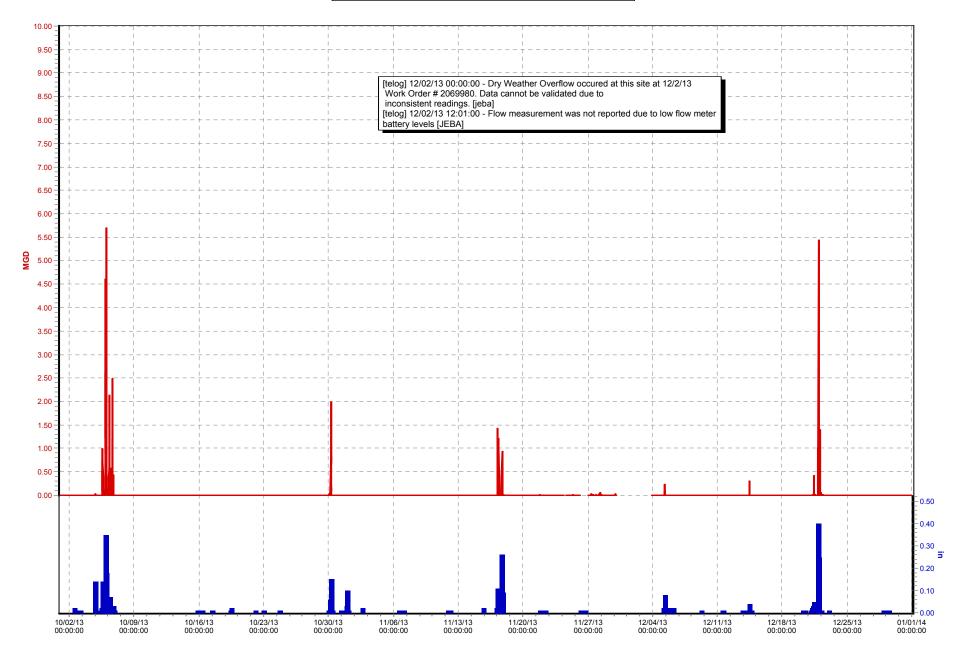
TR04_Morris Forman WQTC.Rain (in)



CSO106 Castlevale Dr (10/01/13 to 01/01/14) **v**

- Final Flow (MGD)

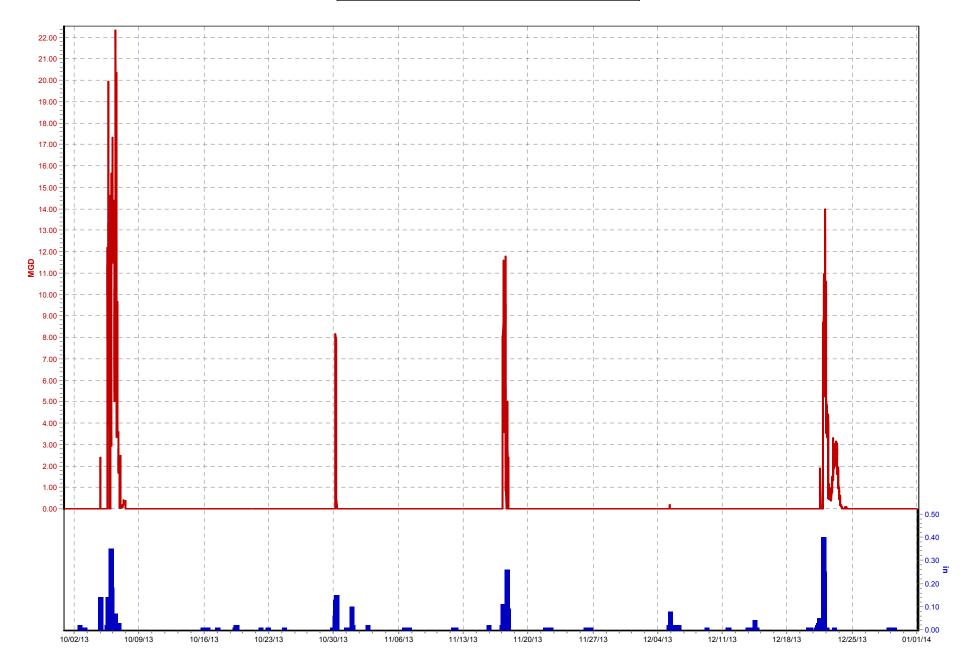
TR12_Nightingale PS.Rain (in)



CSO108 CDS Unit (10/01/13 to 01/01/14)

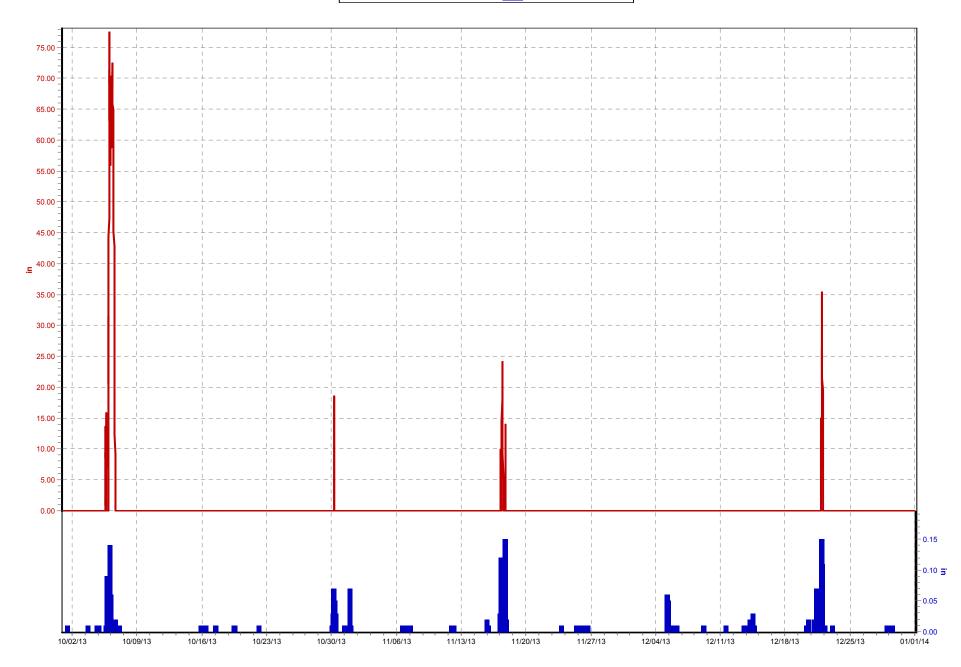
Flow (MGD)

TR12_Nightingale PS.Rain (in)



CSO109 Newburg Rd (10/01/13 to 01/01/14)

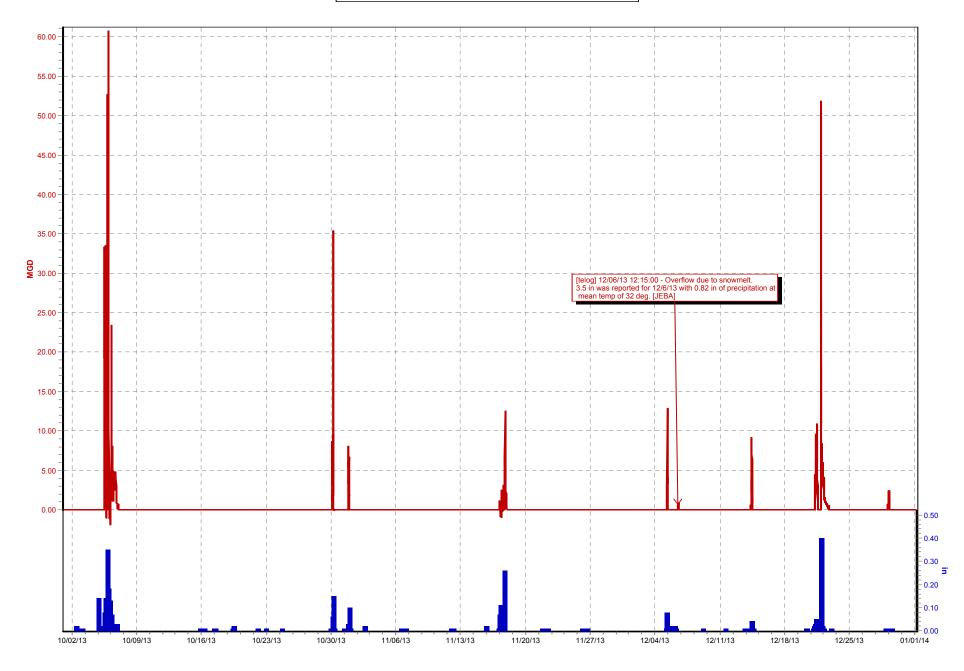
Potential Overflow (in) TR05_Beargrass PS.Rain (in)



CSO110_CSO and Upstream (10/01/13 to 01/01/14)

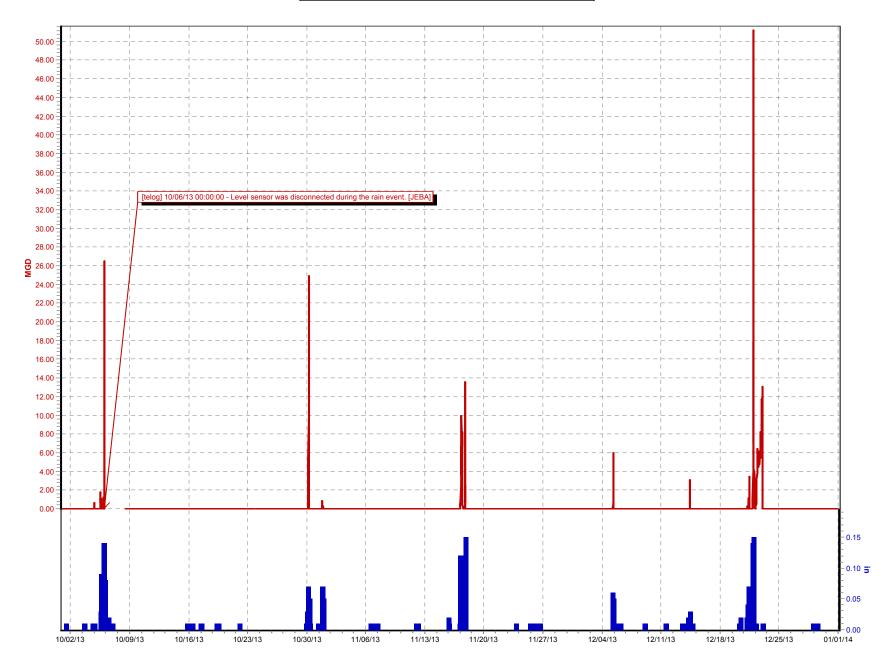
-

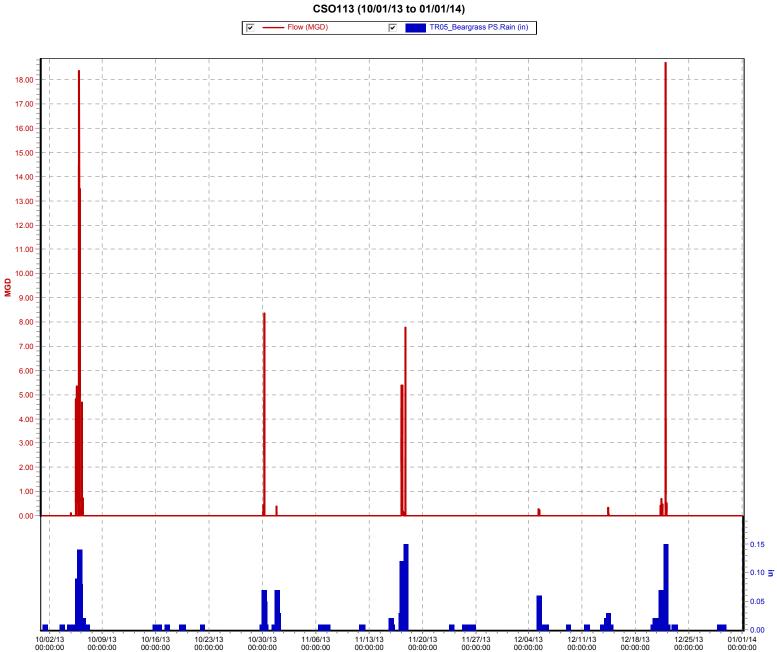
- CSO Flow MGD (MGD) TR12_Nightingale PS.Rain (in)



CSO111 Eastern Pkwy and BGC (10/01/13 to 01/01/14)

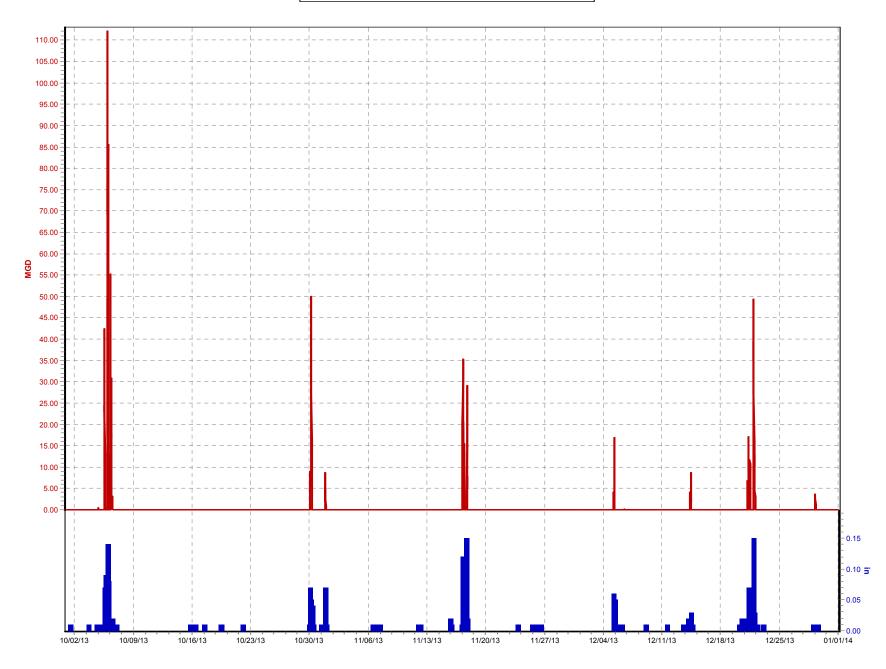
Final Flow (MGD)





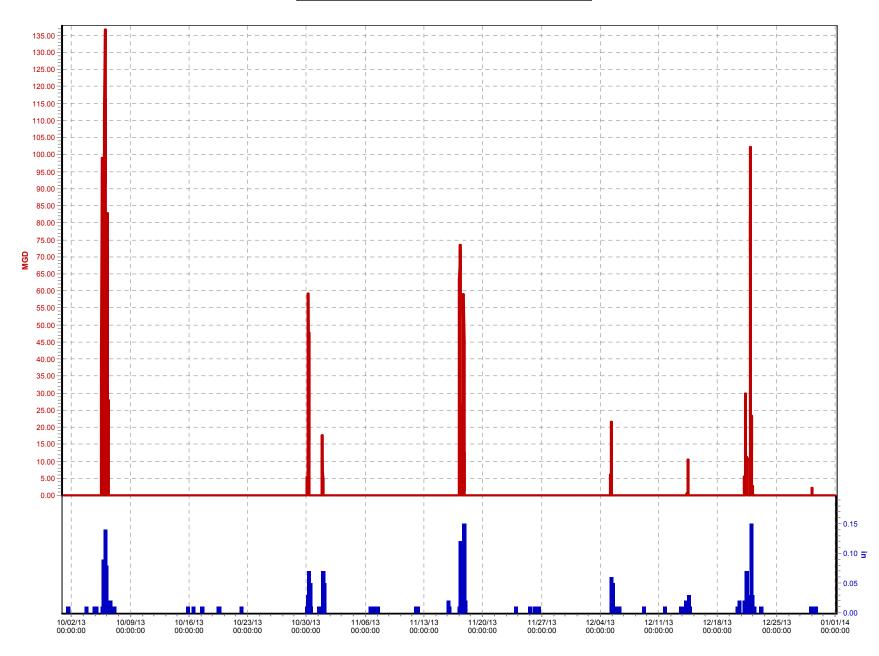
CSO117 Dry Sewer and BGC Logan (10/01/13 to 01/01/14) **V**

- Flow 1 (MGD)



CSO118 Broadway and BGC (10/01/13 to 01/01/14)

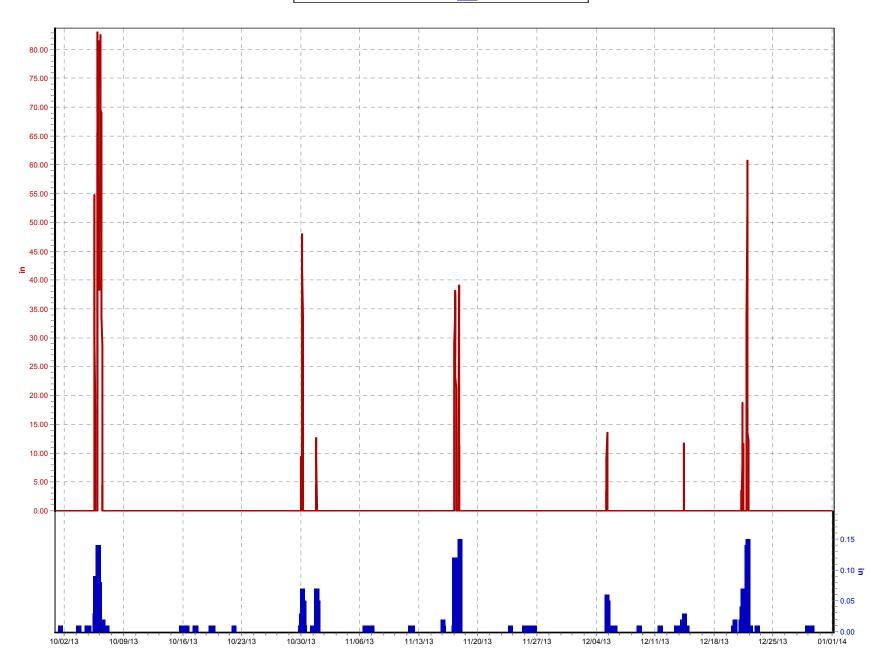
Flow 1 (MGD)



CSO119 (10/01/13 to 01/01/14)

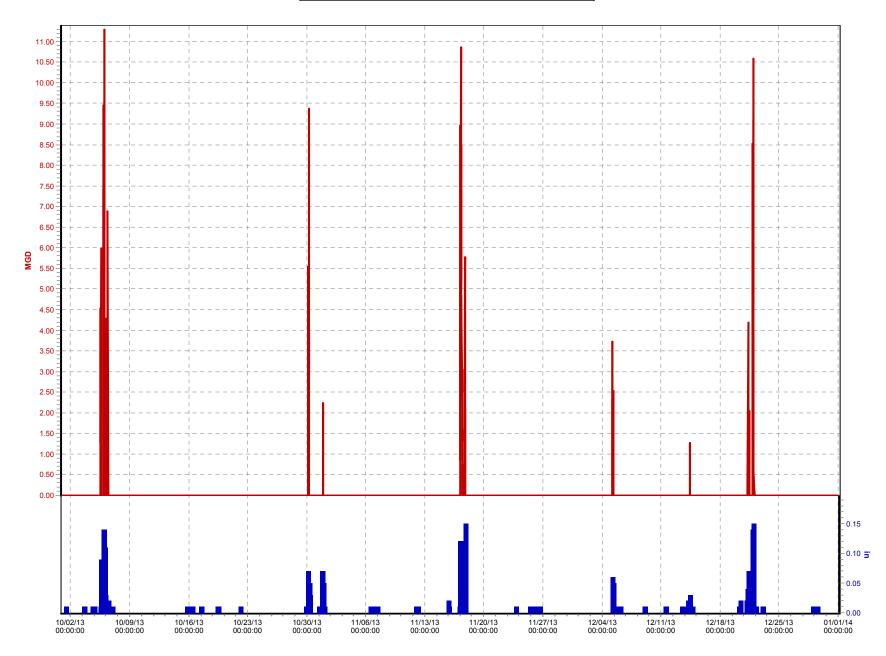
TR05_Beargrass PS.Rain (in)

Overflow Level (in)



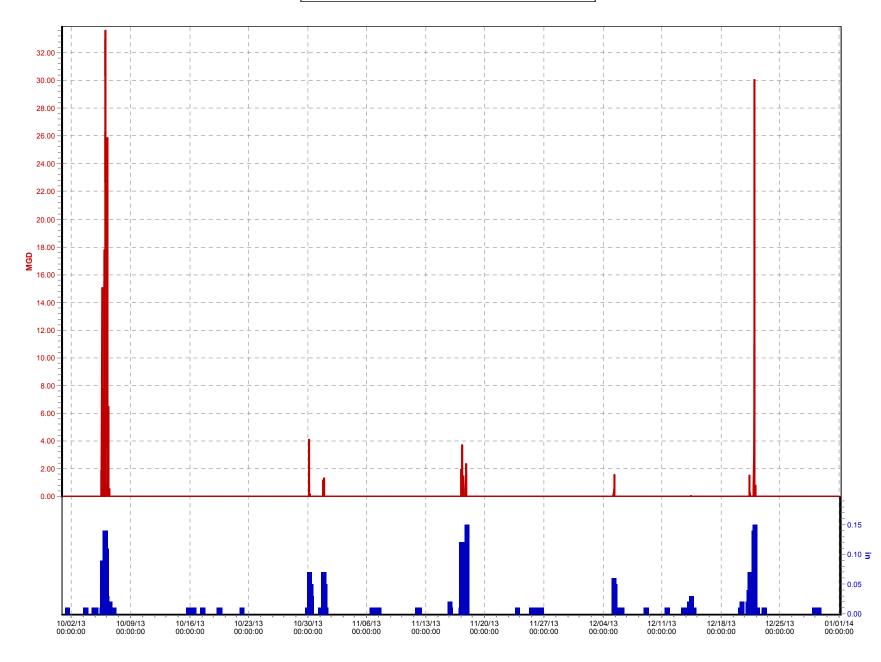
CSO120 Hamilton Ave (10/01/13 to 01/01/14) **V**

Flow 1 (MGD)



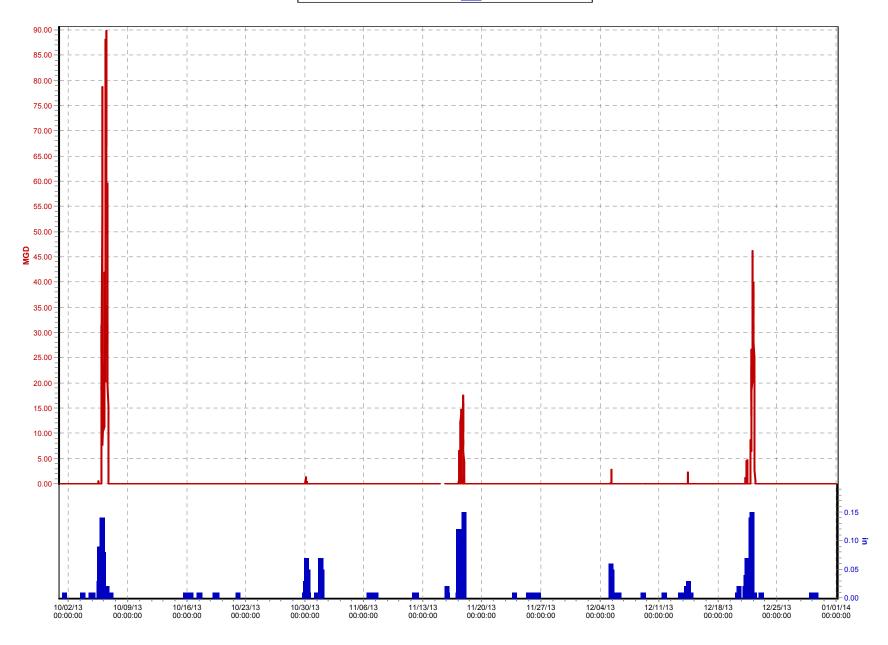
CSO121 Baxter and BGC (10/01/13 to 01/01/14)

Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



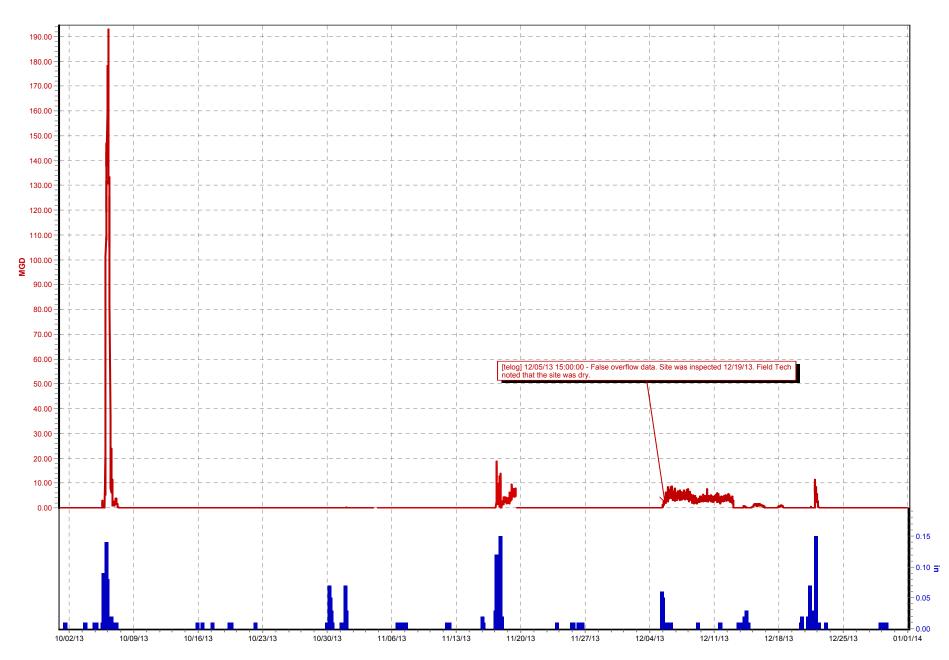
CSO125_Grinstead Dr I64W Ramp (10/01/13 to 01/01/14)

Flow (MGD)



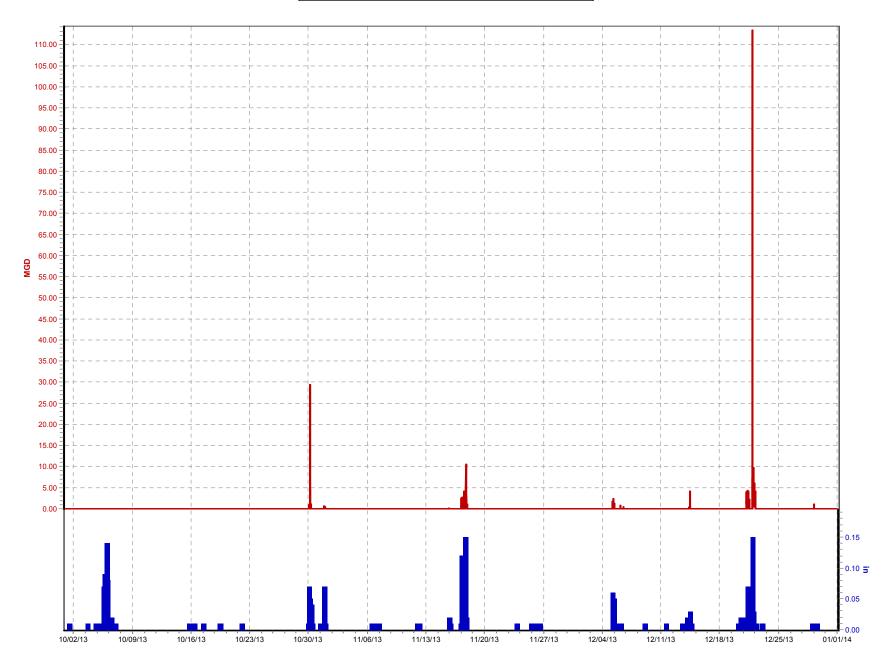
CSO126_ Saunders (10/01/13 to 01/01/14)





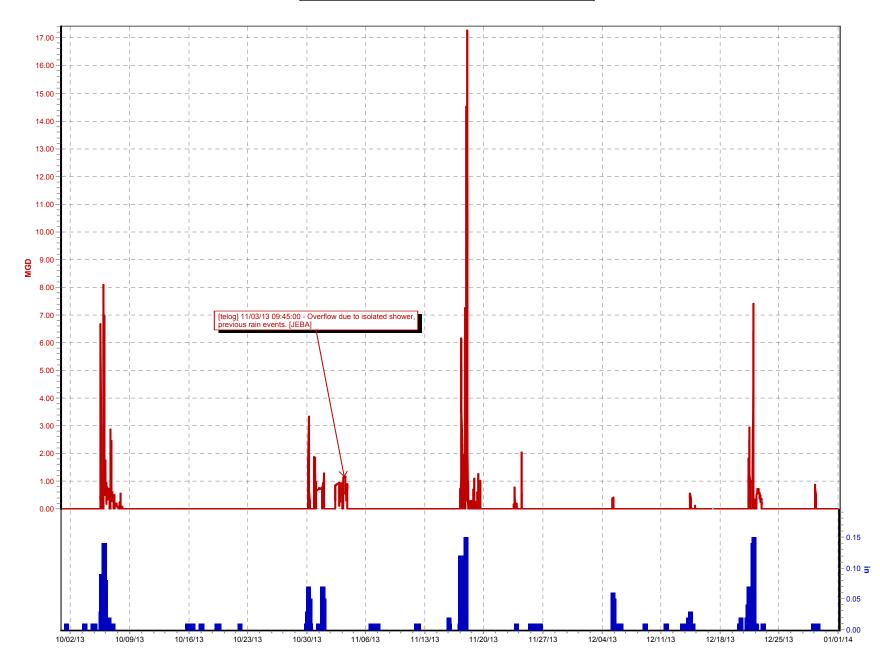
CSO127_Etley and Lexington (10/01/13 to 01/01/14)

Flow 1 (MGD)



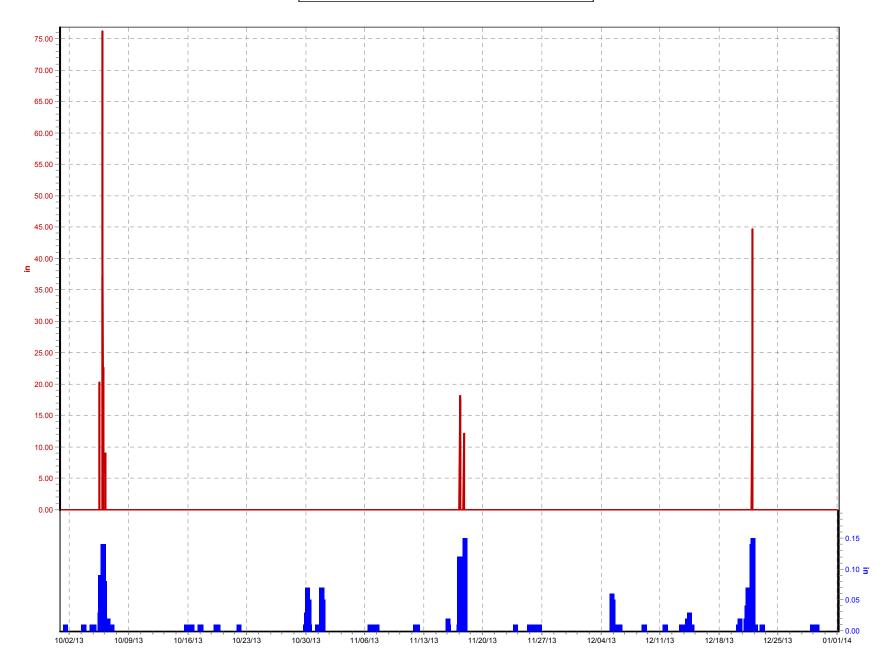
CSO130 Webster St n Story Ave (10/01/13 to 01/01/14)

Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



CSO131 Frankfort Ave (10/01/13 to 01/01/14)

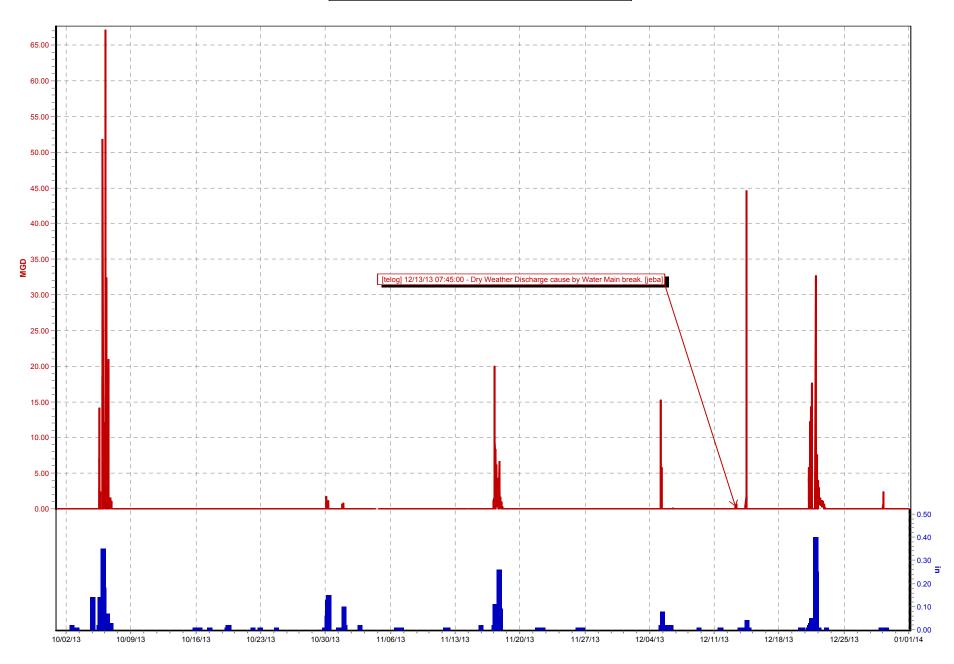
Overflow Level (counts)
 TR05_Beargrass PS.Rain (in)



CSO132 Brownsboro Rd (10/01/13 to 01/01/14)

Flow 1 (MGD)

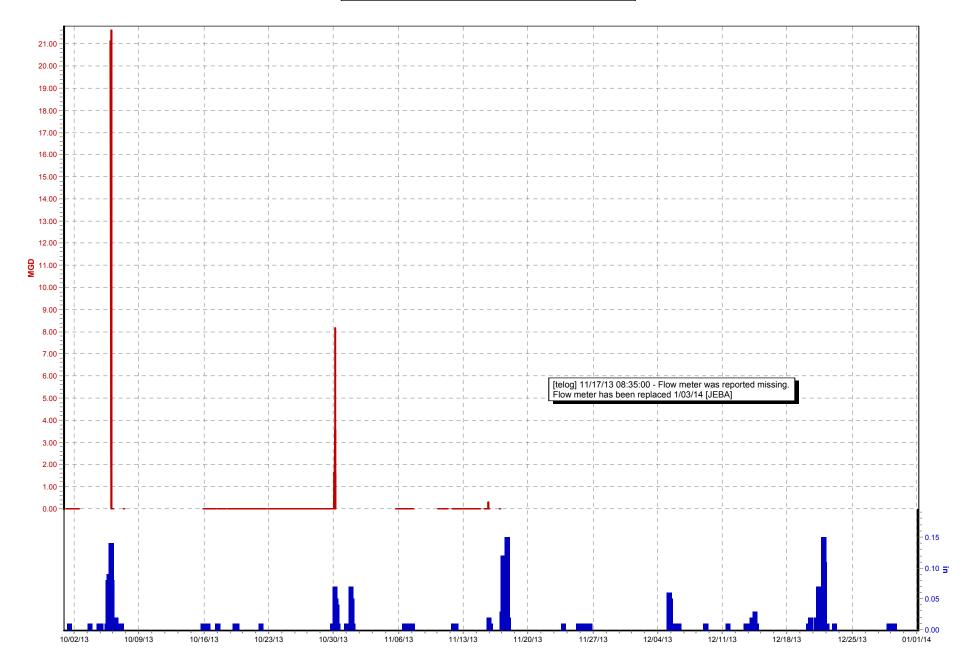
TR12_Nightingale PS.Rain (in)



CSO137 (10/01/13 to 01/01/14)

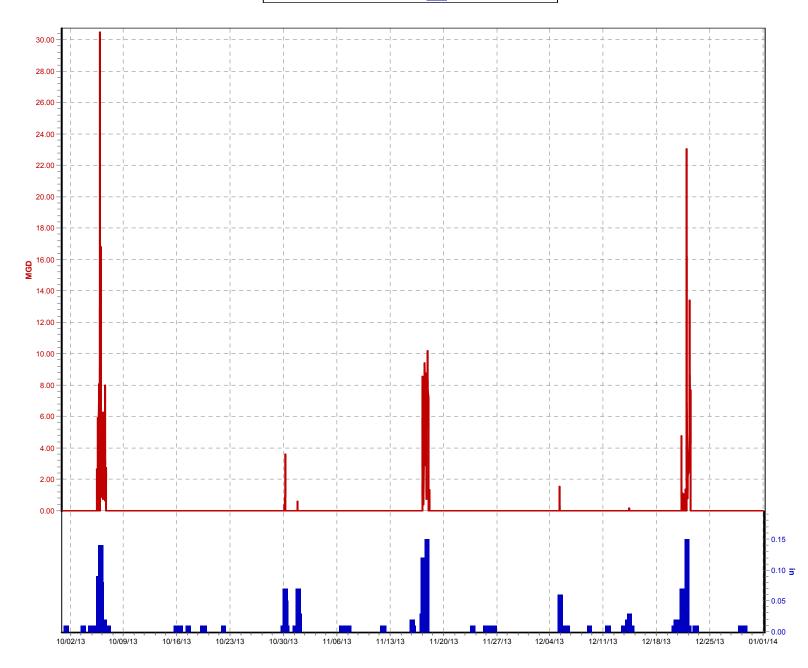
Flow 1 (MGD)

-



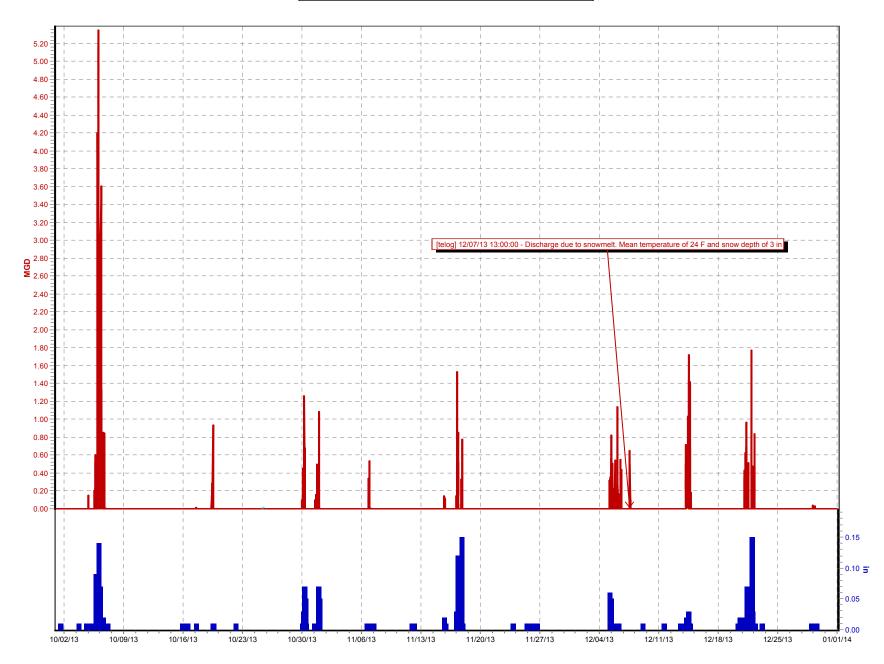
CSO140 Locust St_Lobdell Alley (10/01/13 to 01/01/14)

Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



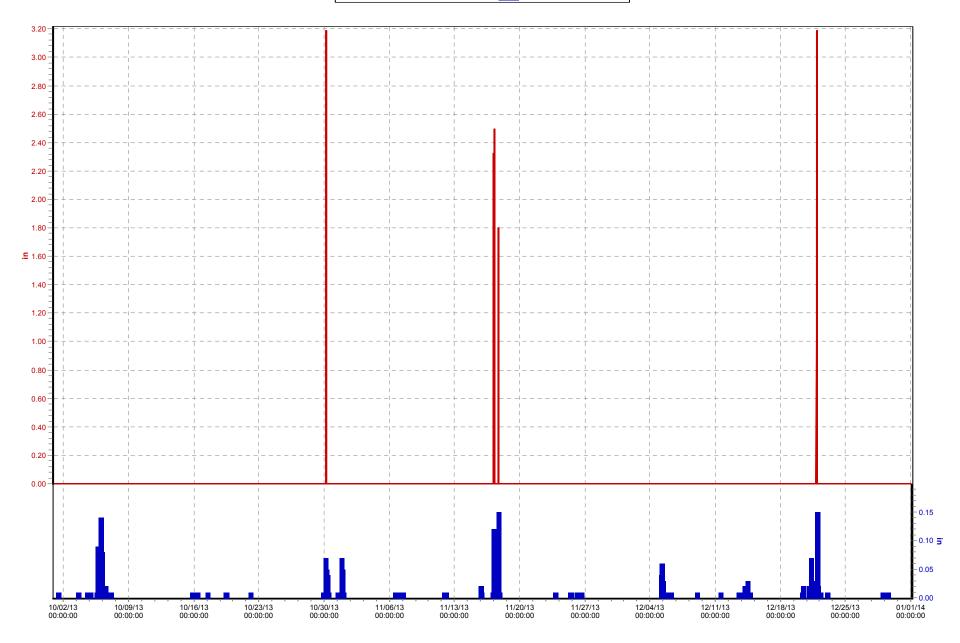
CSO141 Baxter_SF BGC (10/01/13 to 01/01/14) **V**

Flow 1 (MGD)



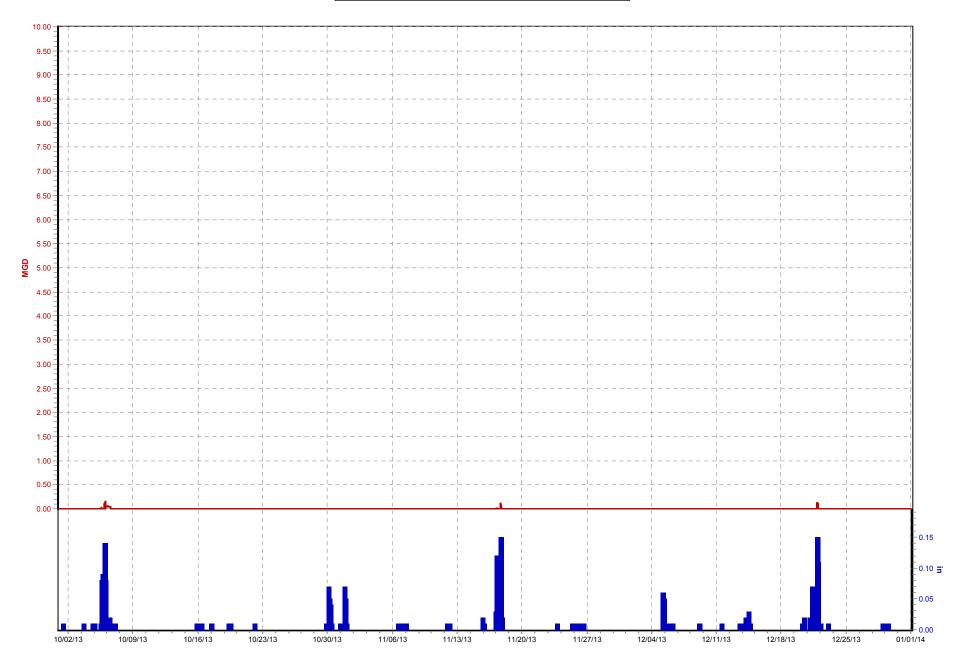
CSO142 (10/01/13 to 01/01/14)

Overflow Level (in)
 TR05_Beargrass PS.Rain (in)



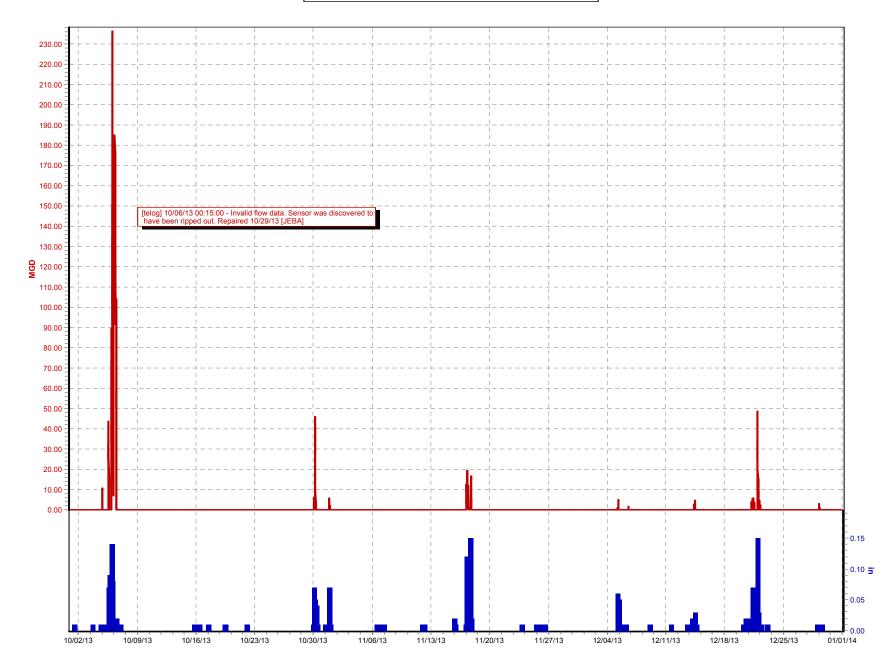
CSO144 Brauner Way (10/01/13 to 01/01/14)

M1 Flow (MGD)



CSO146 Swan St (10/01/13 to 01/01/14)

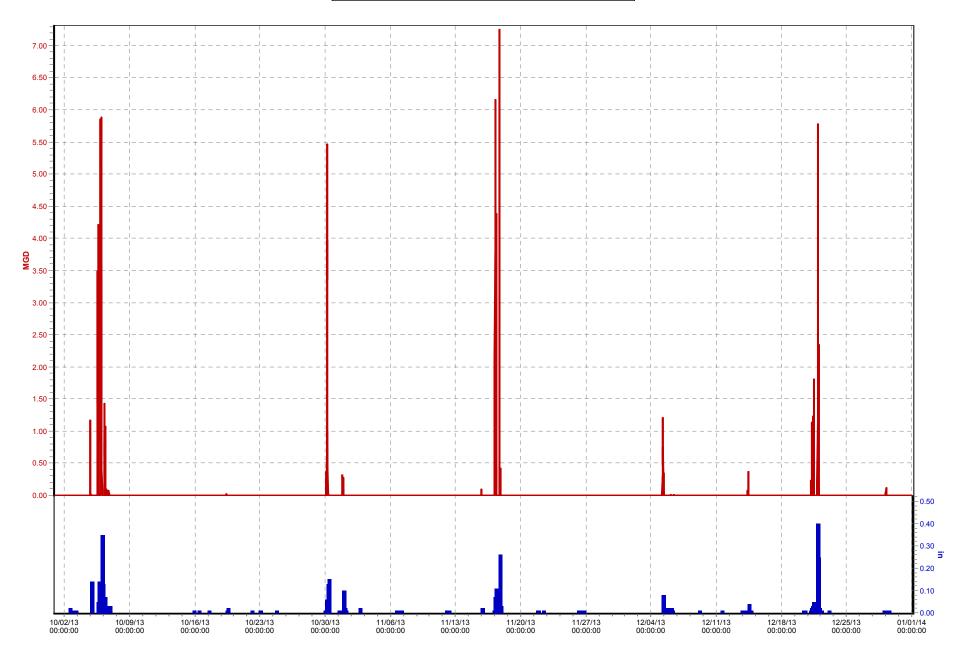
Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



CSO148 Eastern Pkwy (10/01/13 to 01/01/14) **~**

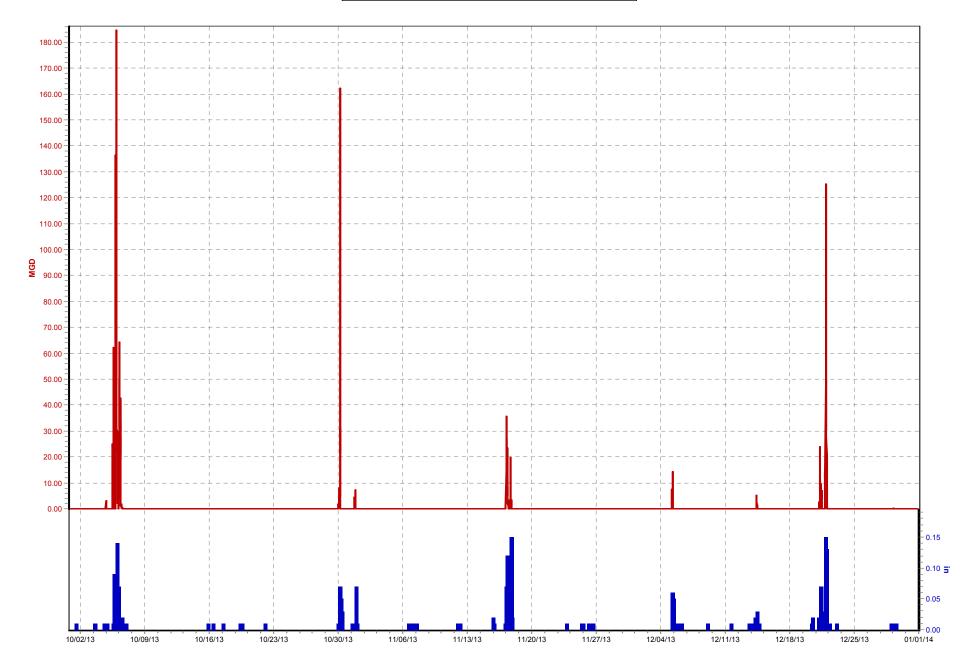
Flow 1 (MGD)

TR12_Nightingale PS.Rain (in)



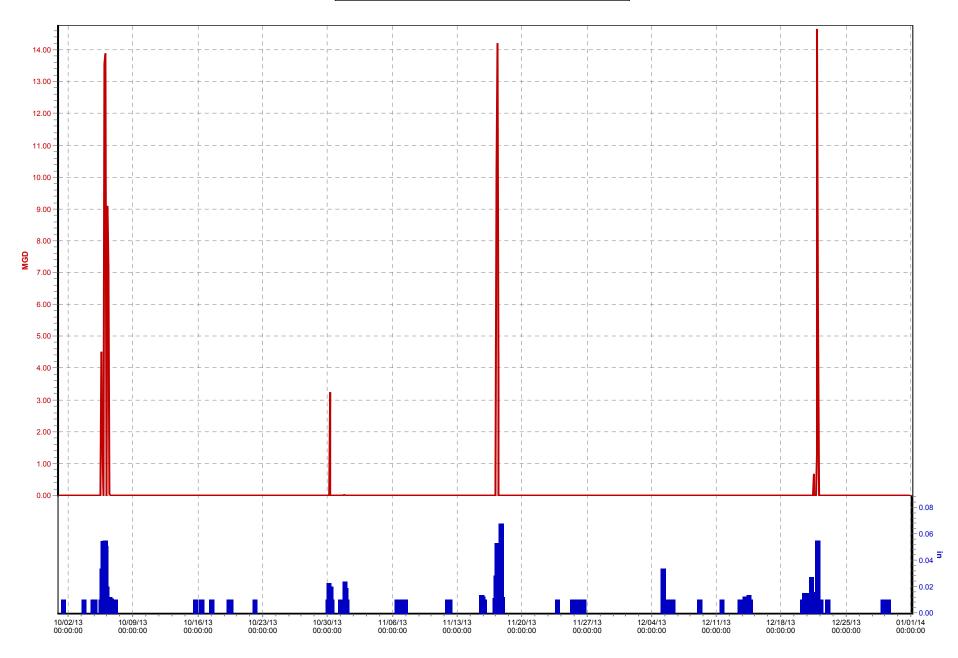
CSO149 KY St_St Paul Ct (09/30/13 to 12/31/13)

Flow 1-CSO149 (MGD)



CSO150 8th St_Wash St (10/01/13 to 01/01/14) **V**

Flow 1 (MGD)

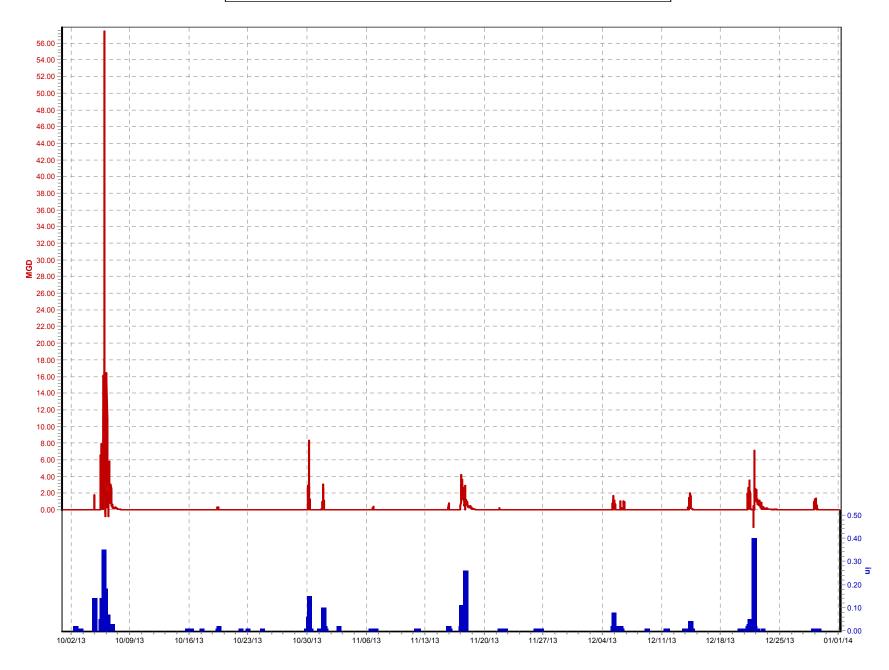


CSO151_CSO and Upstream (10/01/13 to 01/01/14)

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CSO Flow MGD (MGD)

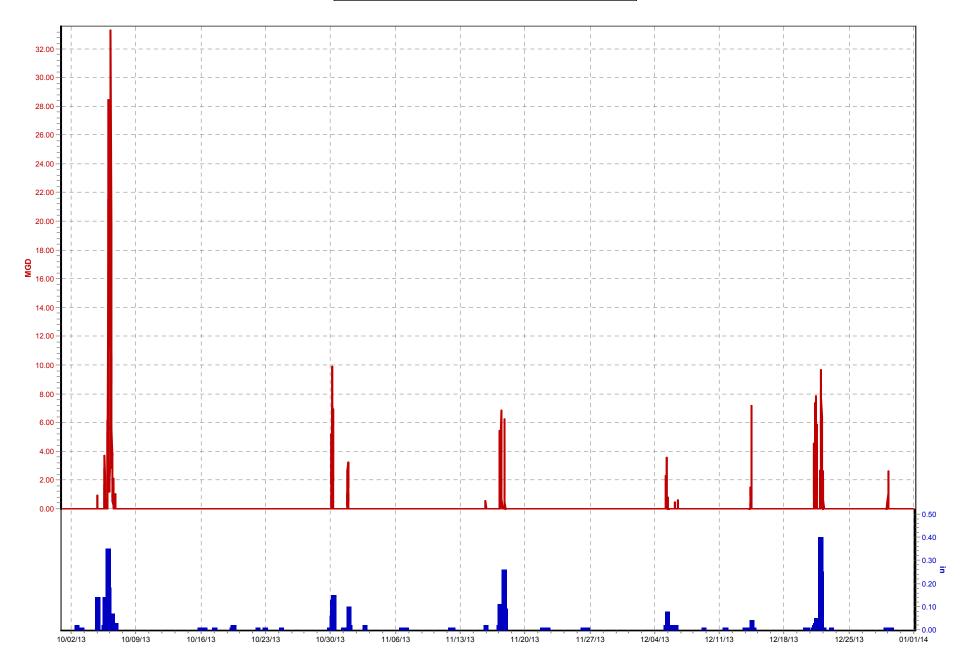
TR12_Nightingale PS.Rain (in)
Level (in)



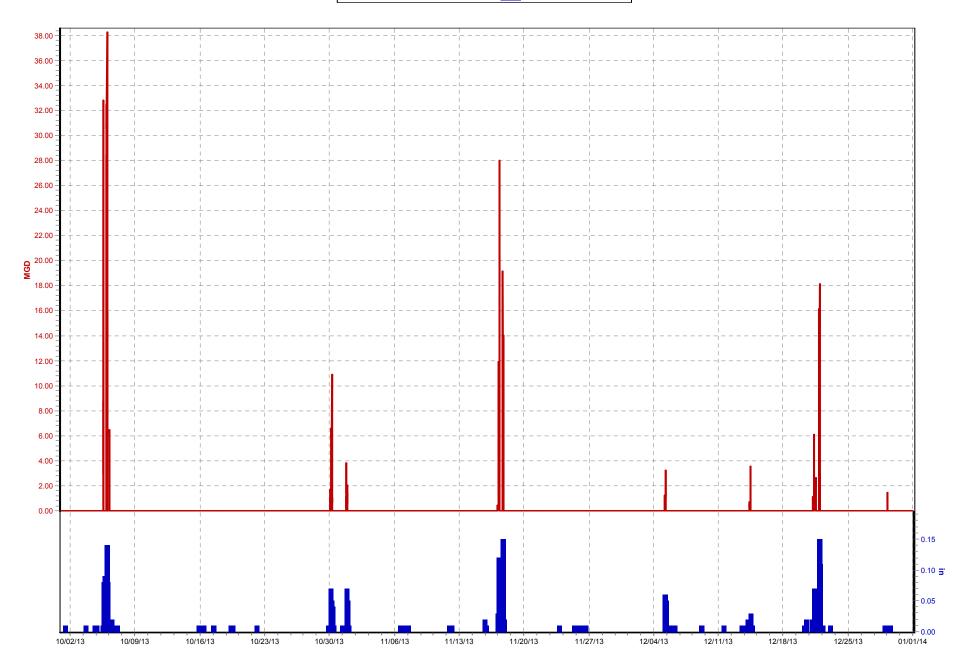
CSO152_CSO and Upstream (10/01/13 to 01/01/14)

CSO Flow MGD (MGD)

TR12_Nightingale PS.Rain (in)

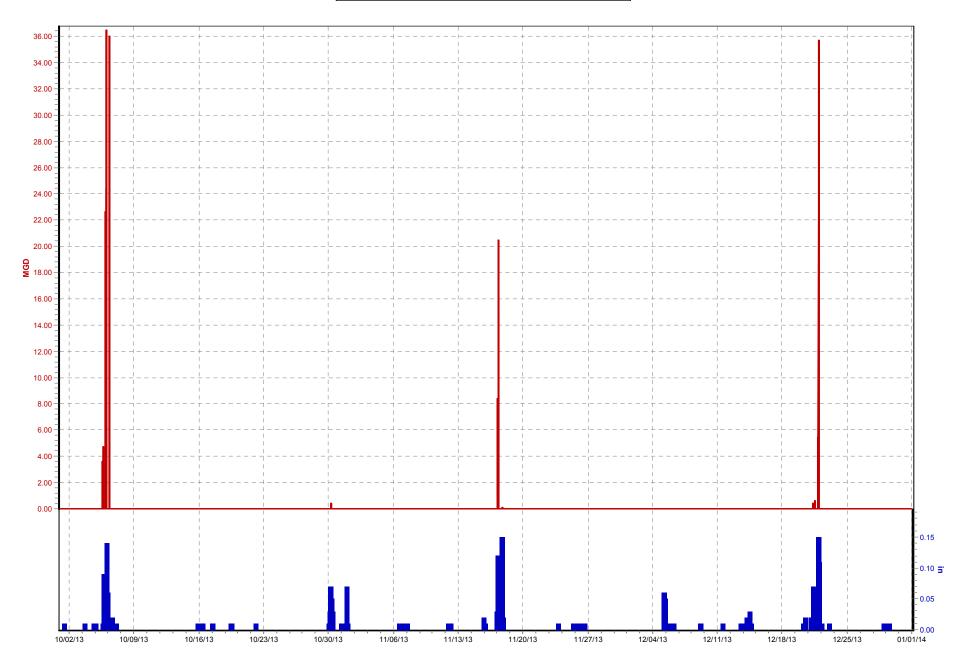


CSO153 Lex Rd (10/01/13 to 01/01/14)



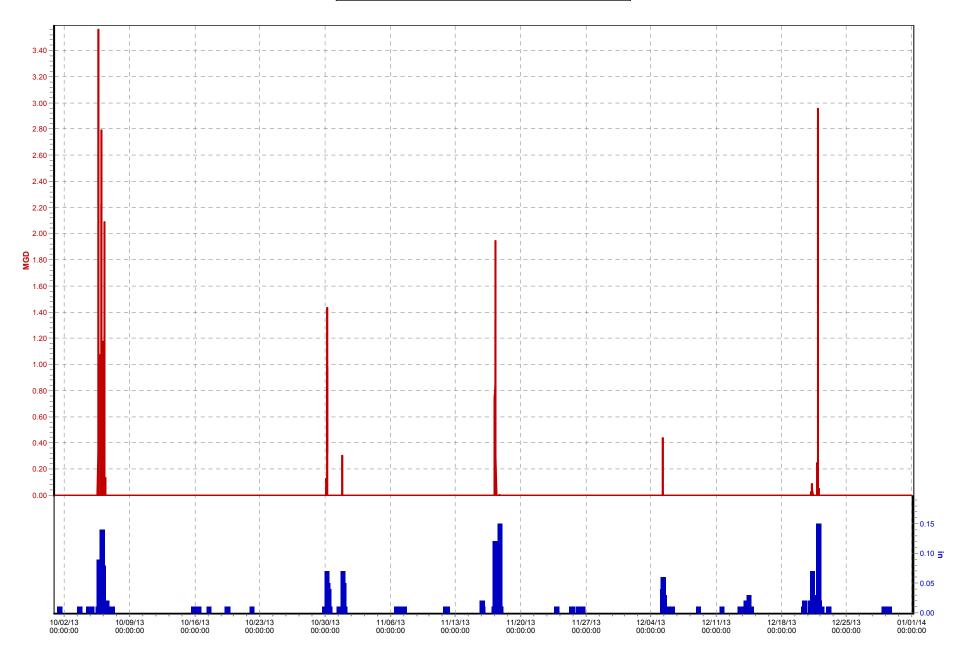
CSO154 Mellwood Ave (10/01/13 to 01/01/14)

Flow 1 (MGD)



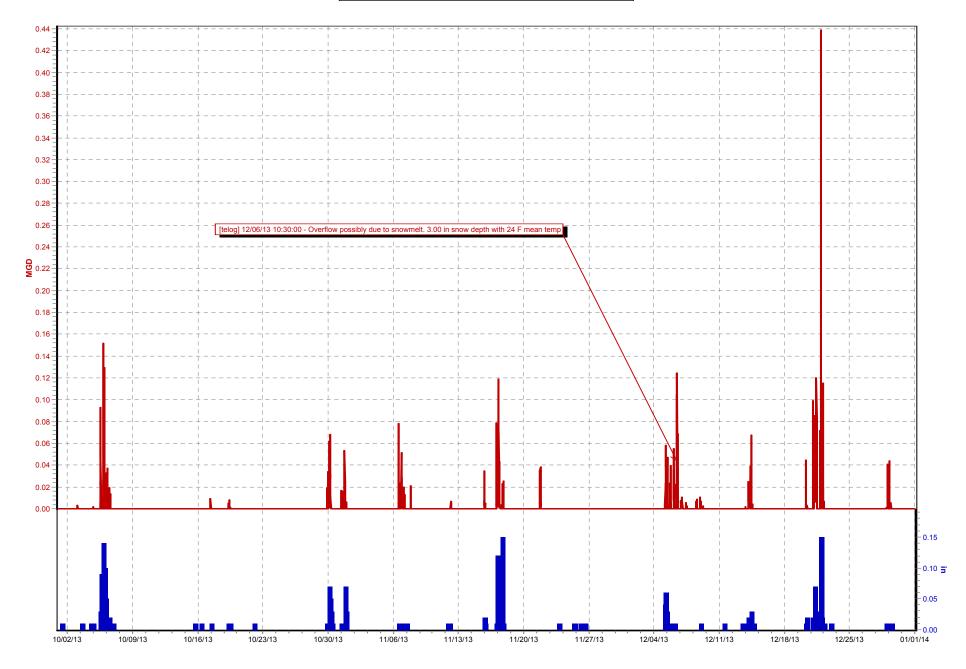
CSO155 Rowan St (10/01/13 to 01/01/14) **~**

Flow 1 (MGD)



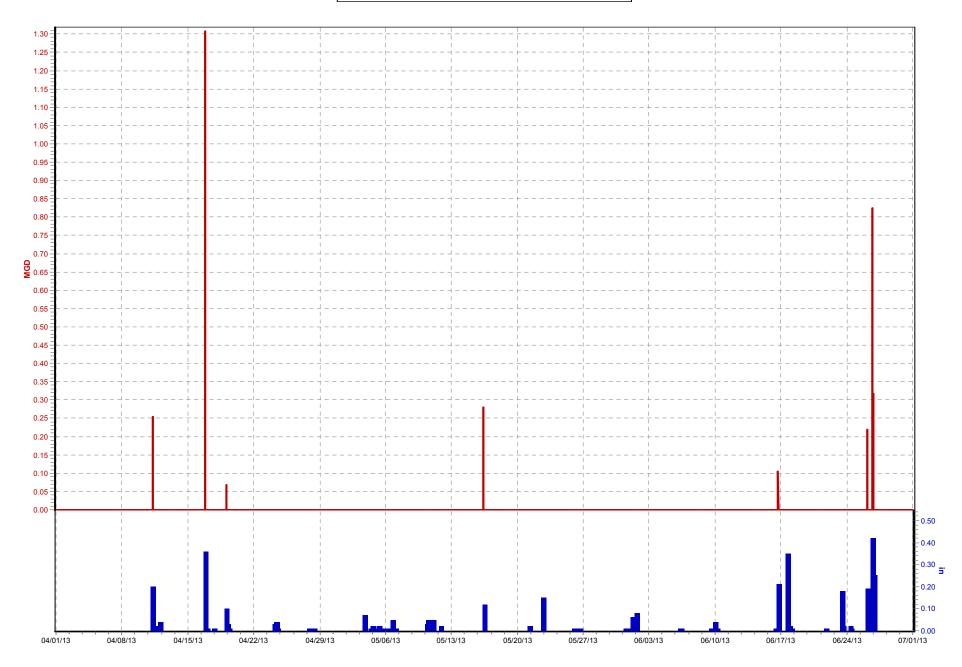
CSO160 1st St (10/01/13 to 01/01/14)

Flow 1 (MGD)



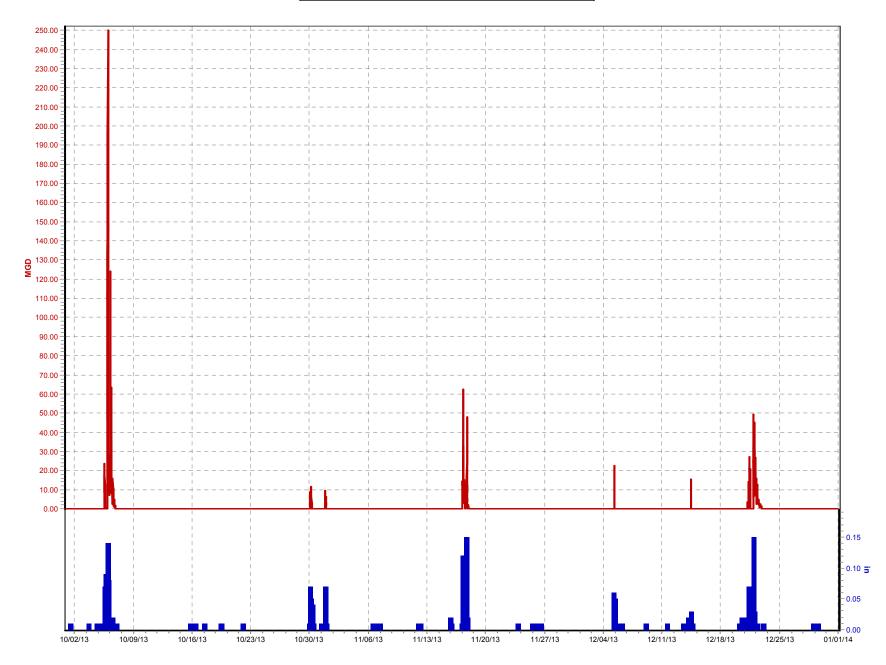
CSO161 1st and Market St (04/01/13 to 07/01/13)

Flow 1 (MGD)



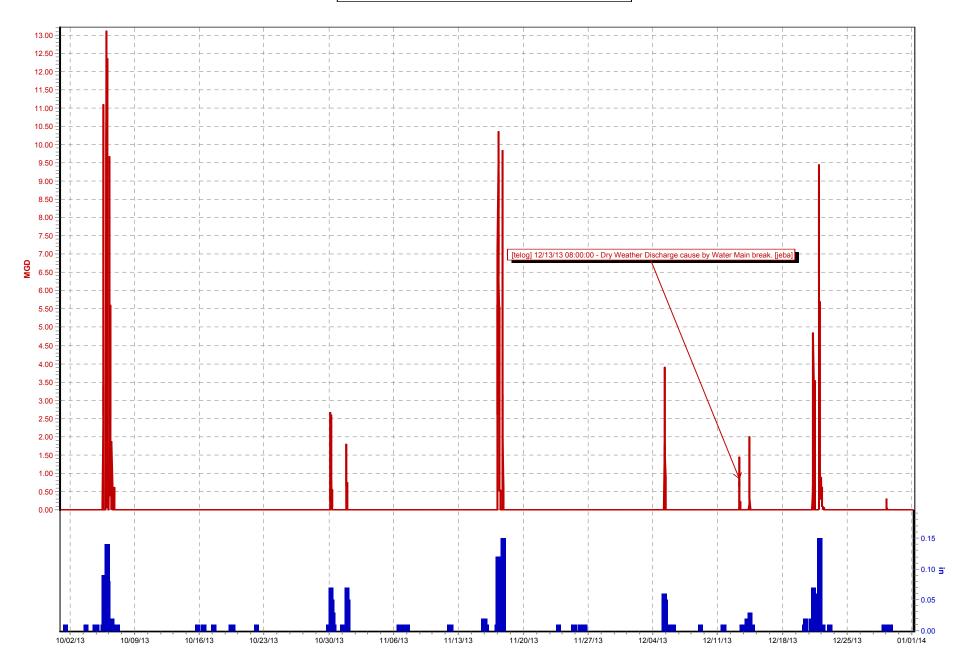
CSO166 Lex Rd (10/01/13 to 01/01/14) **V**

- Flow 1 (MGD) **-**



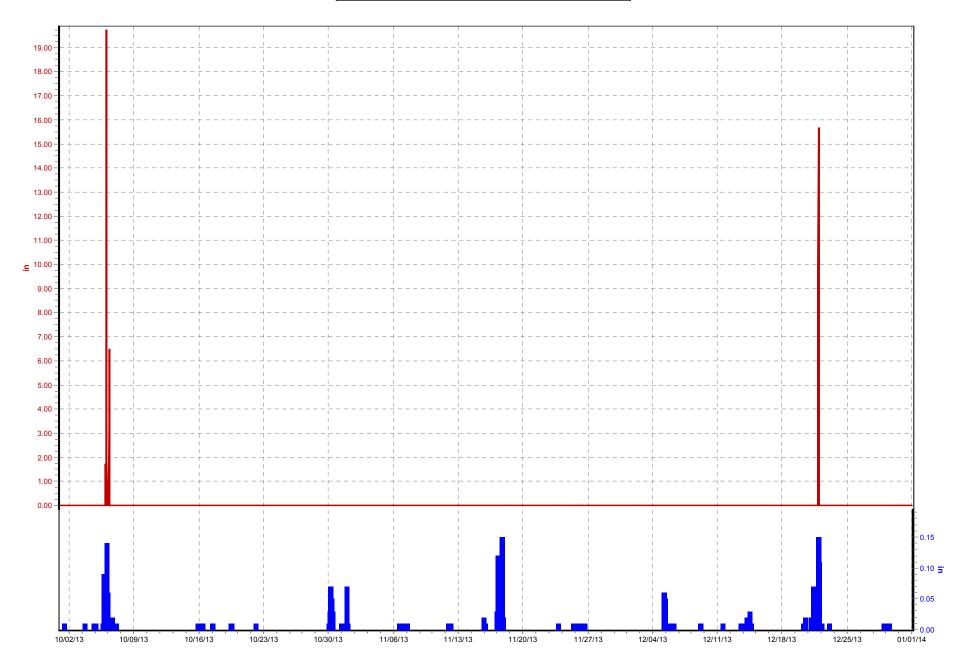


Flow 1 (MGD)



CSO172 River Road (10/01/13 to 01/01/14)

Discharge Level (in)



CSO174 Goss_Boyle Ave (10/01/13 to 01/01/14)

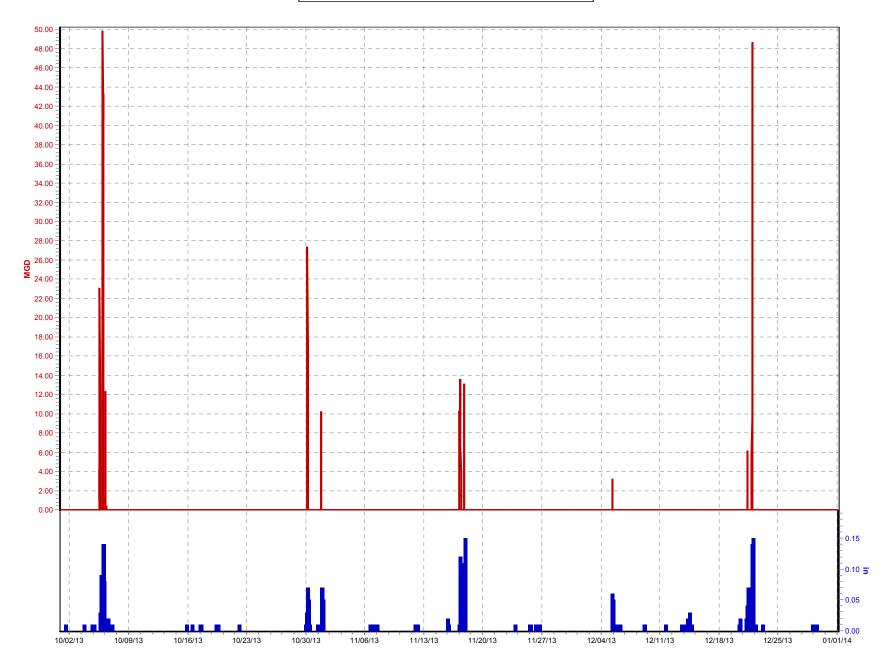
Flow 1 (MGD) TR12_Nightingale PS.Rain (in)

48.00 46.00 44.00 42.00 40.00 38.00 36.00 34.00 32.00 30.00 28.00 26.00 **G** 24.00 22.00 20.00 18.00 16.00 14.00 12.00 10.00 [telog] 10/15/13 00:00:00 -Telog Battery was depleted. [JEBA] 8.00 6.00 4.00 2.00 0.00 - 0.50 0.40 -0.30 0.20 0.10 0.00 10/02/13 10/09/13 10/16/13 10/23/13 10/30/13 11/06/13 11/13/13 11/20/13 11/27/13 12/04/13 12/11/13 12/18/13 12/25/13 01/01/14

3

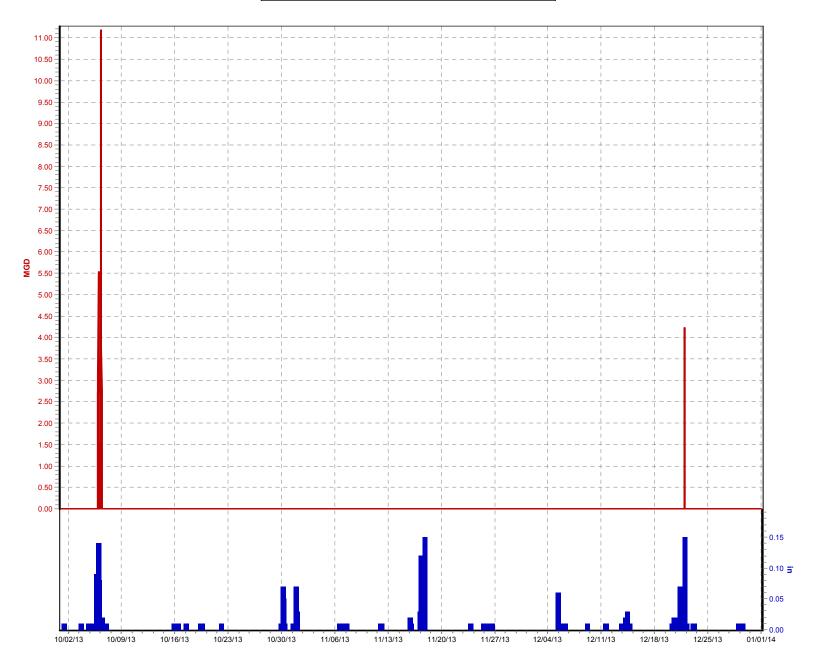
CSO178_CSO Upstream (10/01/13 to 01/01/14) **V**

Est Level (in)



CSO179 KY St_St Paul Ct (10/01/13 to 01/01/14)

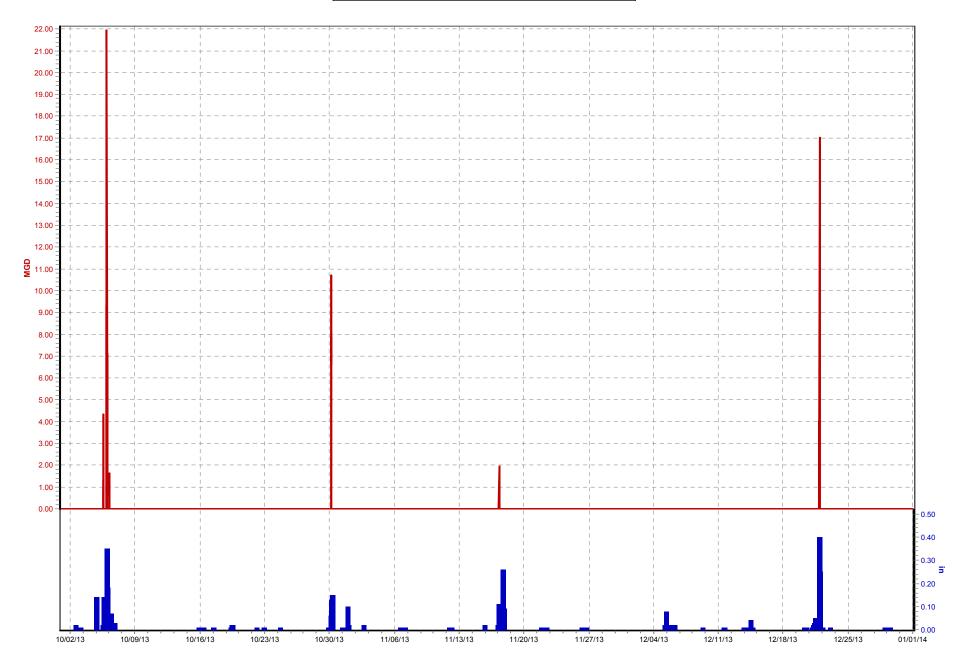
Flow 2 -CSO179 (MGD) TR05_Beargrass PS.Rain (in)

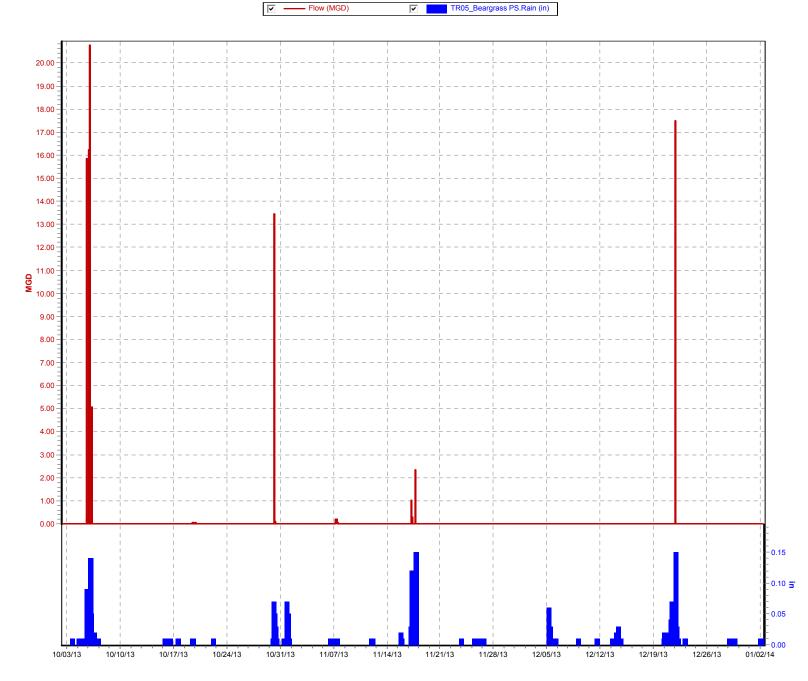


CSO180 E Ormsby_Clay St (10/01/13 to 01/01/14)

Flow 1 (MGD)

TR12_Nightingale PS.Rain (in)

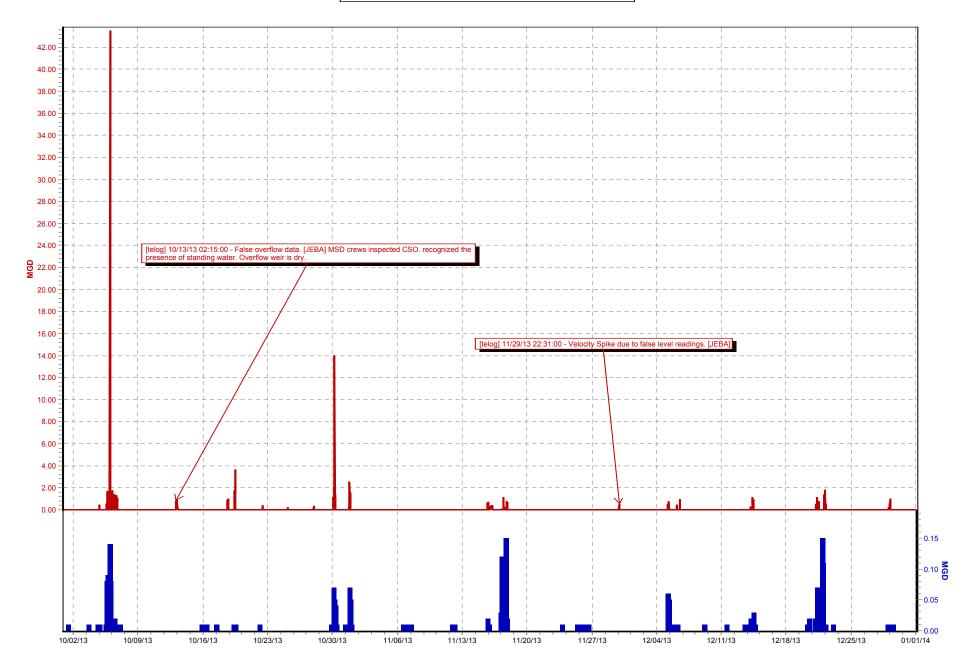




CSO181 (10/02/13 to 01/02/14)

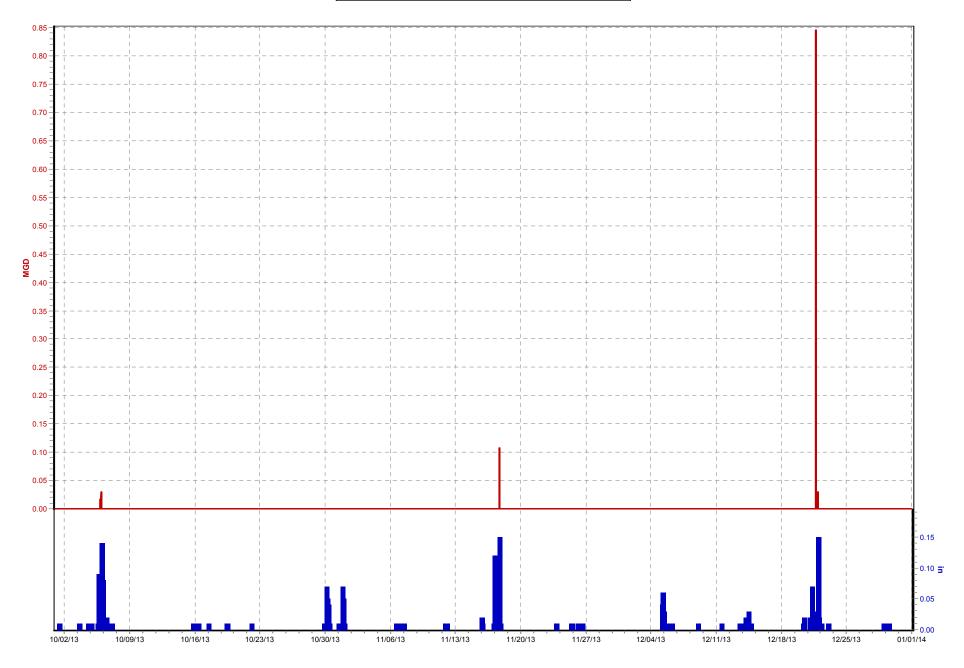
CSO182 Shelby_Burnett St (10/01/13 to 01/01/14)

Flow 1 (MGD)



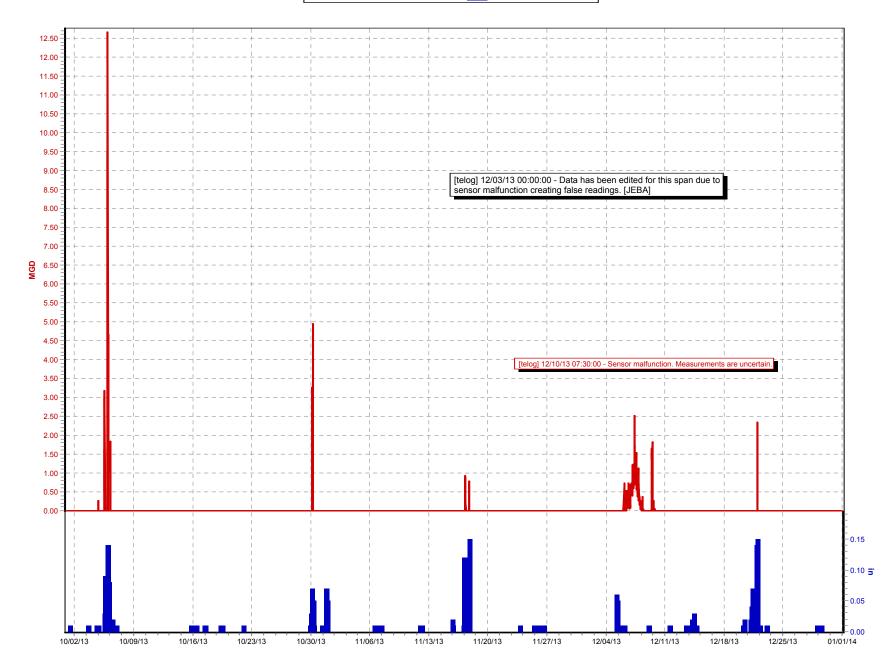
CSO183 Keswick Blvd (10/01/13 to 01/01/14)

Final Flow (MGD)



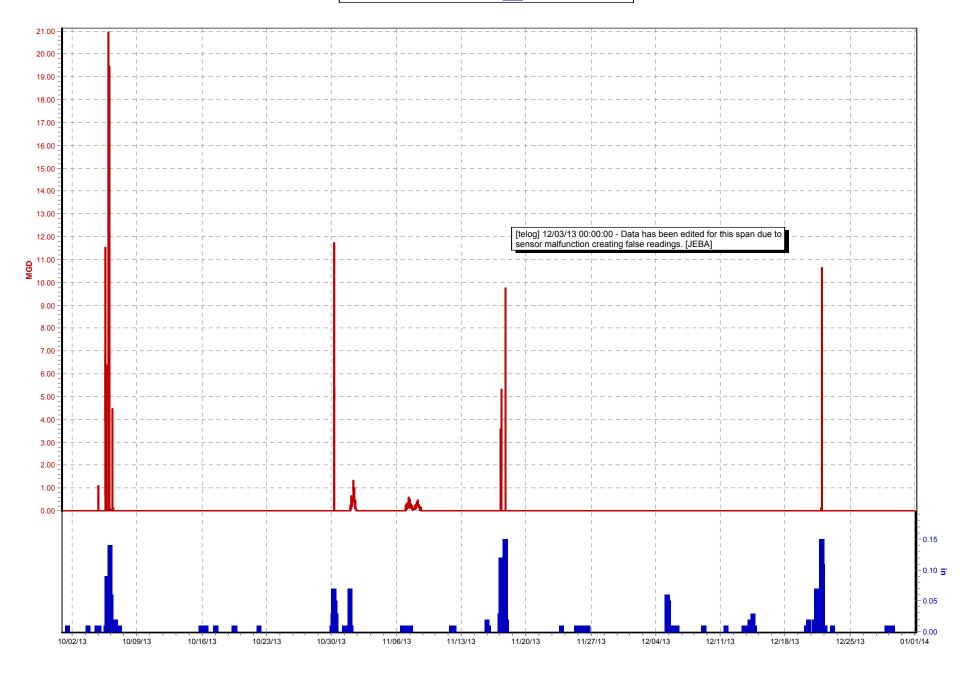
CSO184(10/01/13 to 01/01/14)

Calc CSO184 Flow (MGD) TR05_Beargrass PS.Rain (in)



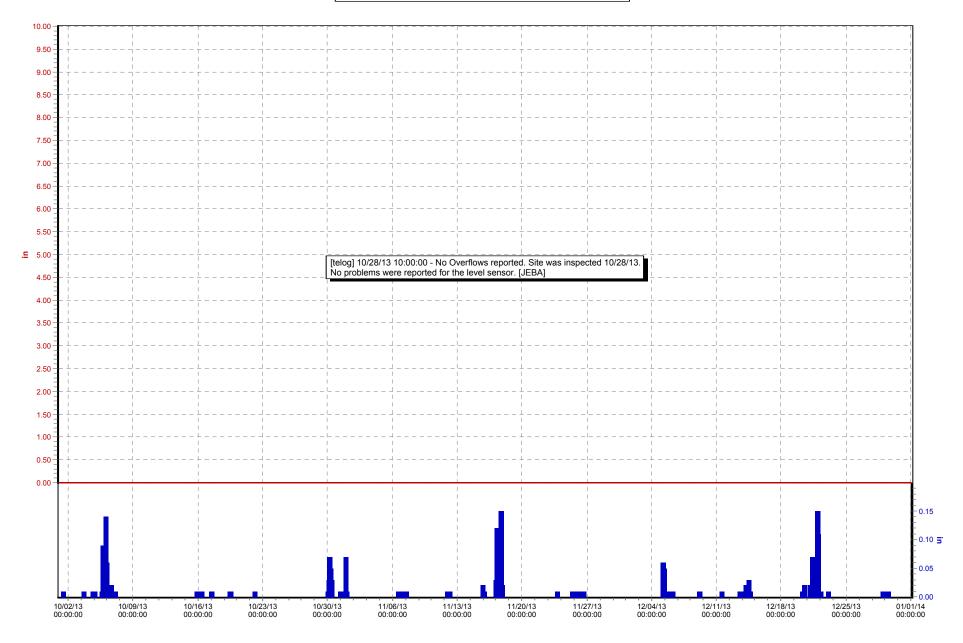
CSO185 (10/01/13 to 01/01/14)

Calc CSO185 Flow (MGD) TR05_Beargrass PS.Rain (in)



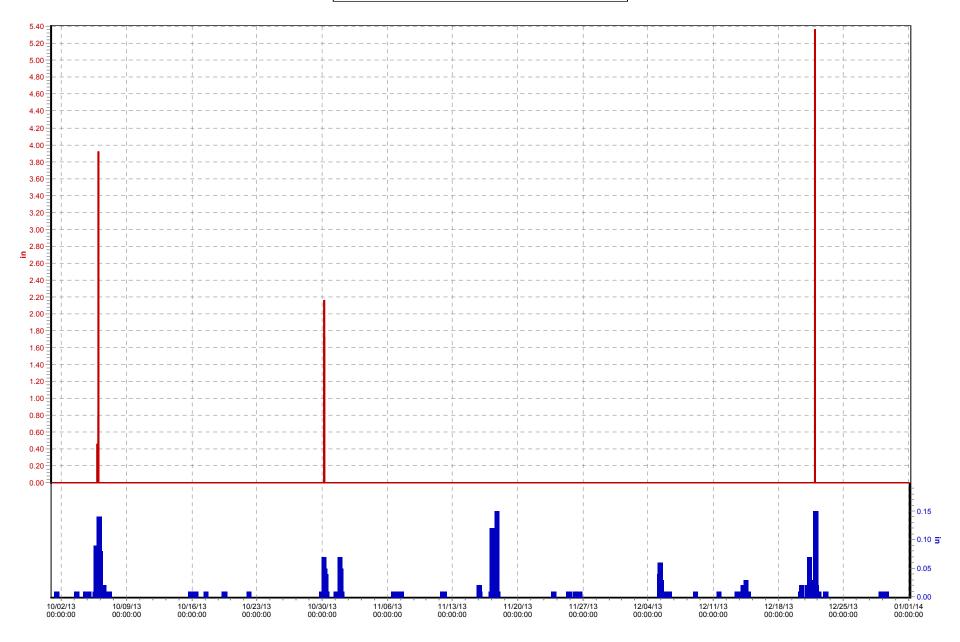
CSO186 (10/01/13 to 01/01/14)

Overflow Level (in)
 TR0



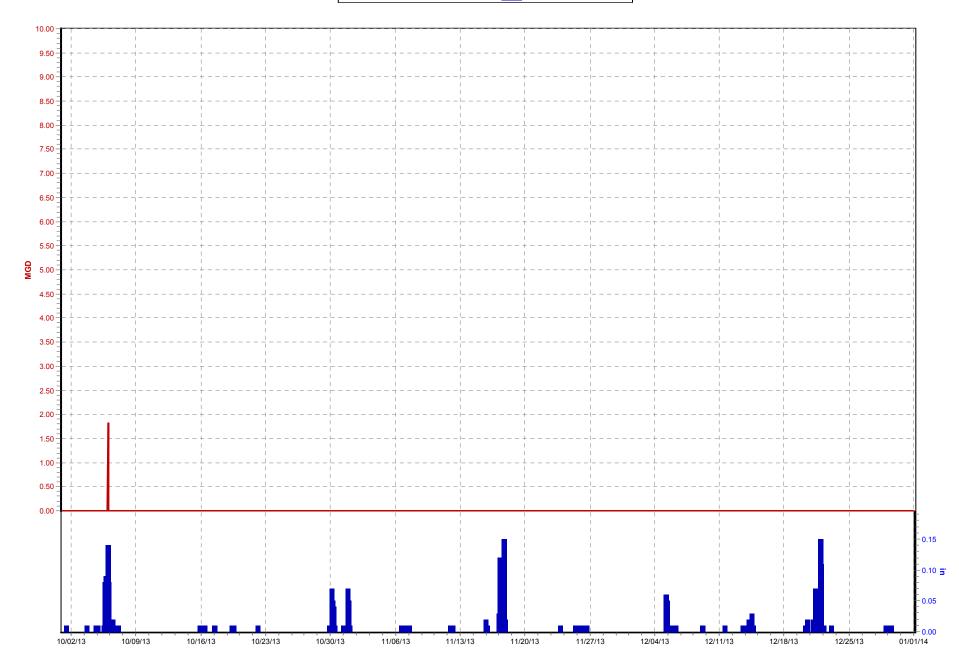
CSO187_1260 S Shelby St (10/01/13 to 01/01/14)

Overflow Level (in)



CSO188 Clay St (10/01/13 to 01/01/14)

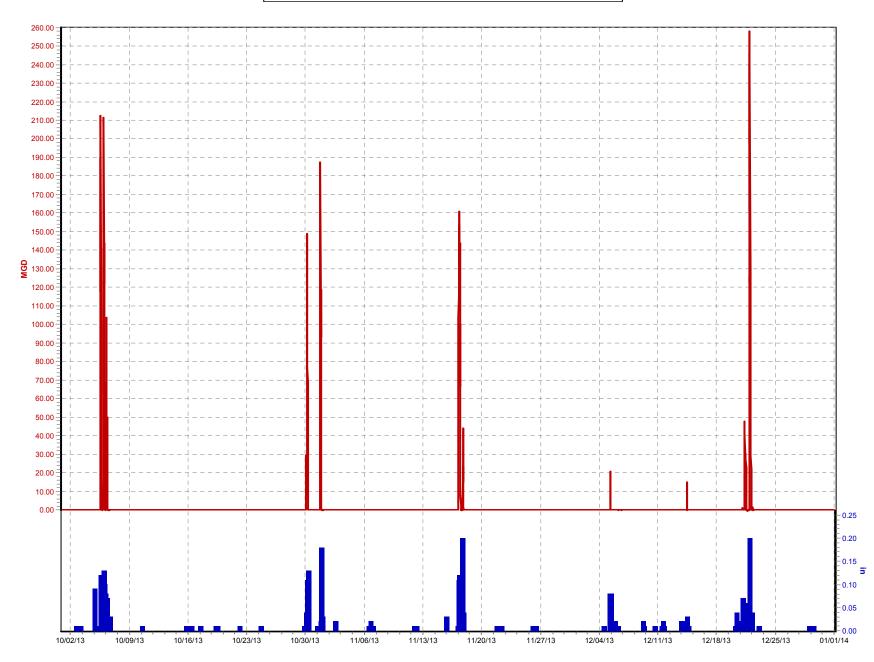
Flow (MGD) TR05_Beargrass PS.Rain (in)



CSO189 Shawnee PK PS (10/01/13 to 01/01/14) **v**

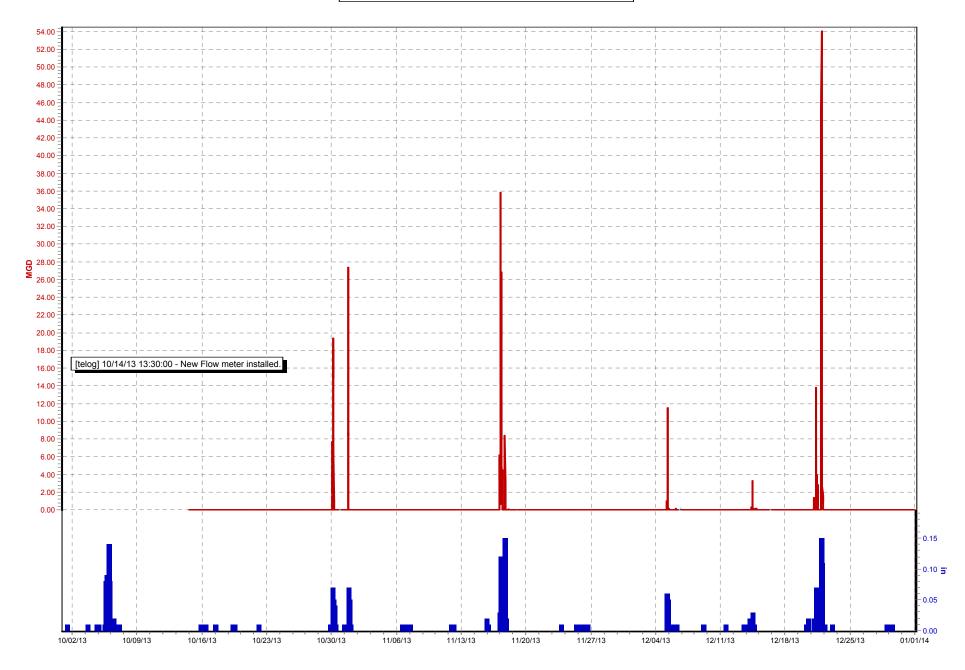
- Flow 1 (MGD) **-**

TR04_Morris Forman WQTC.Rain (in)



CSO190 NWest Pkwy (10/01/13 to 01/01/14) **~**

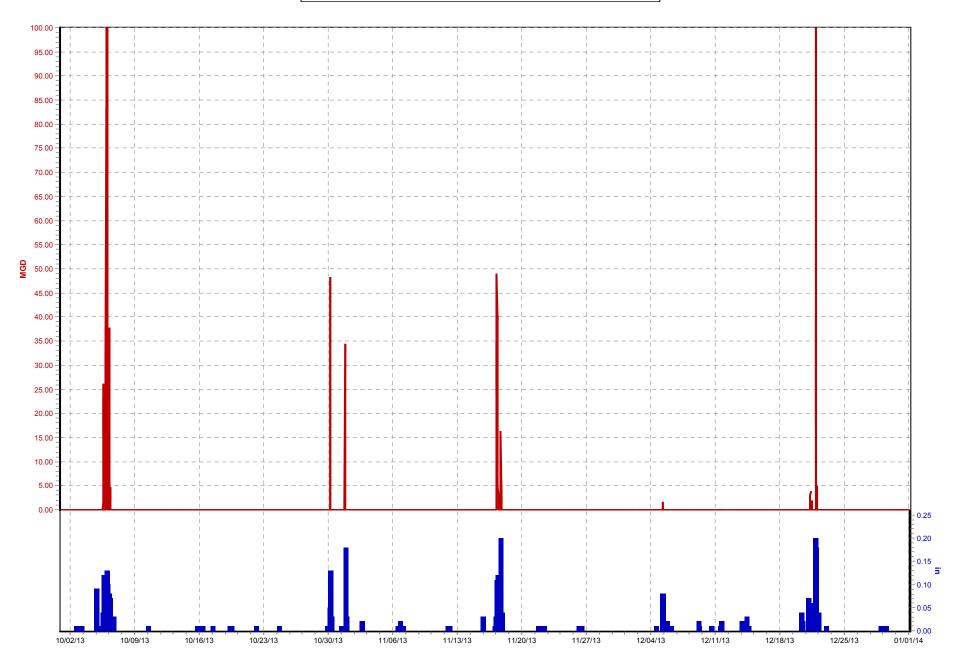
Flow 1 (MGD)



CSO191 Bells Lane PS (10/01/13 to 01/01/14) **~**

- Flow (MGD) **I**

TR04_Morris Forman WQTC.Rain (in)



CSO193 6th and KY (10/01/13 to 01/01/14)

TR05_Beargrass PS.Rain (in)

Final Flow (MGD)

2.50 2.40 2.30 2.20 2.10 2.00 1.90 1.80 1.70 1.60 1.50 1.40 **g**^{1.30} 1.20 1.10 1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 -0.15 -0.10 🛒 0.05 -0.00

10/02/13

10/09/13

10/16/13

10/23/13

10/30/13

11/06/13

11/13/13

11/20/13

11/27/13

12/04/13

12/11/13

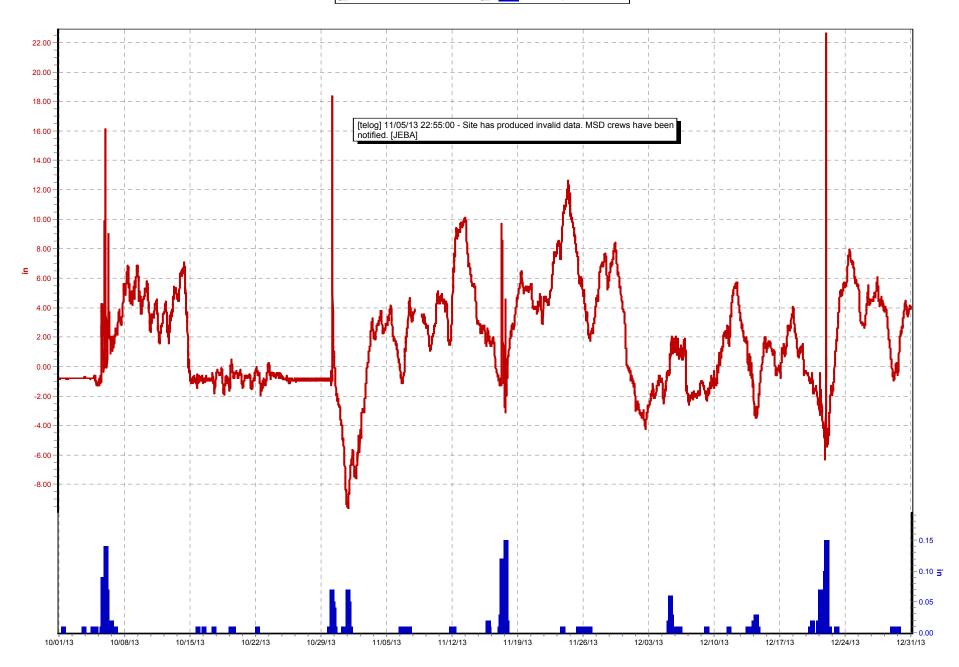
12/18/13

12/25/13

01/01/14

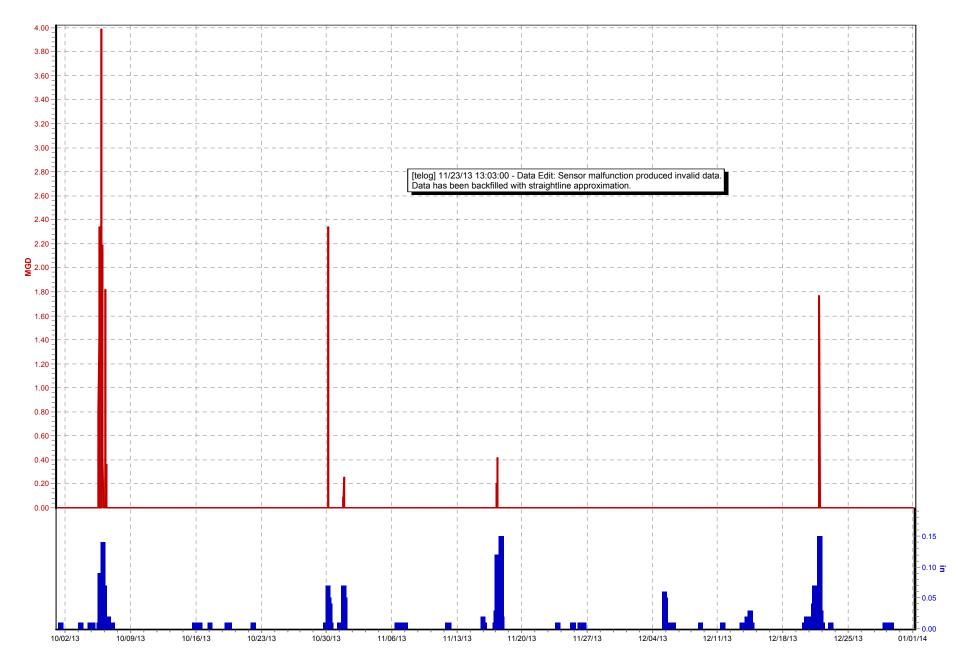
CSO195 Upstream of Dam (09/30/13 to 12/30/13)

CSO Level (in) TR05_Beargrass PS.Rain (in)



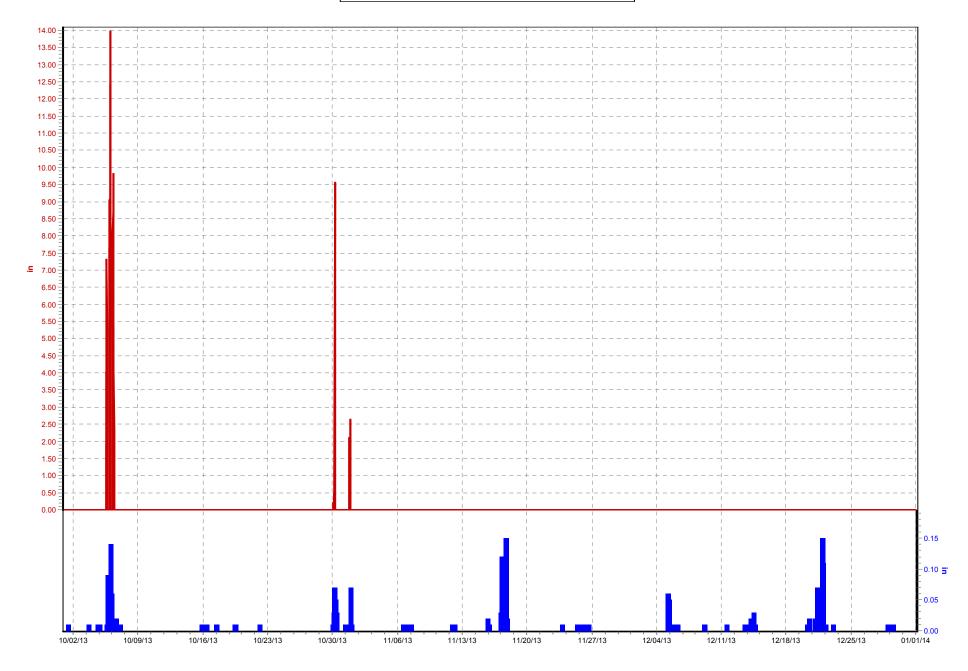
CSO196 (10/01/13 to 01/01/14)

- Final CSO Flow (MGD)



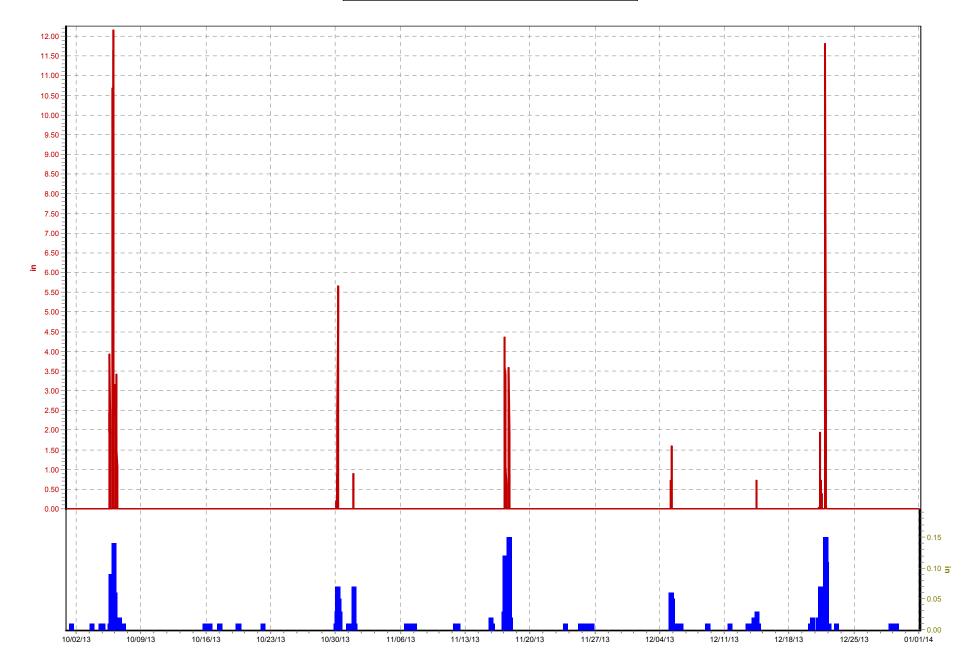
CSO197 S 3rd St (10/01/13 to 01/01/14) **~**

Overflow Level (in)



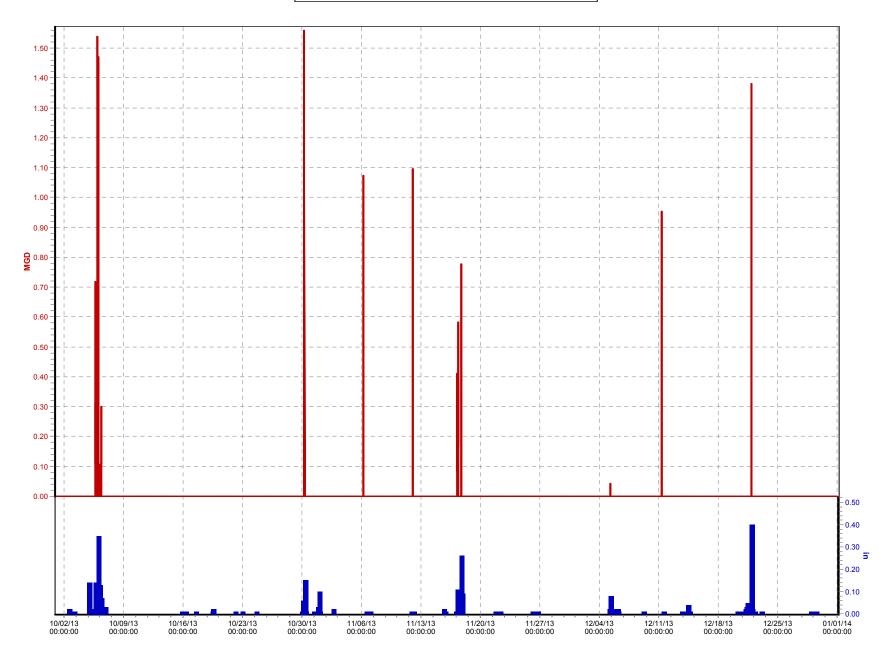
CSO198 S 3rd St (10/01/13 to 01/01/14)

Overflow Level (in)



CSO199 S 3rd St (10/01/13 to 01/01/14)

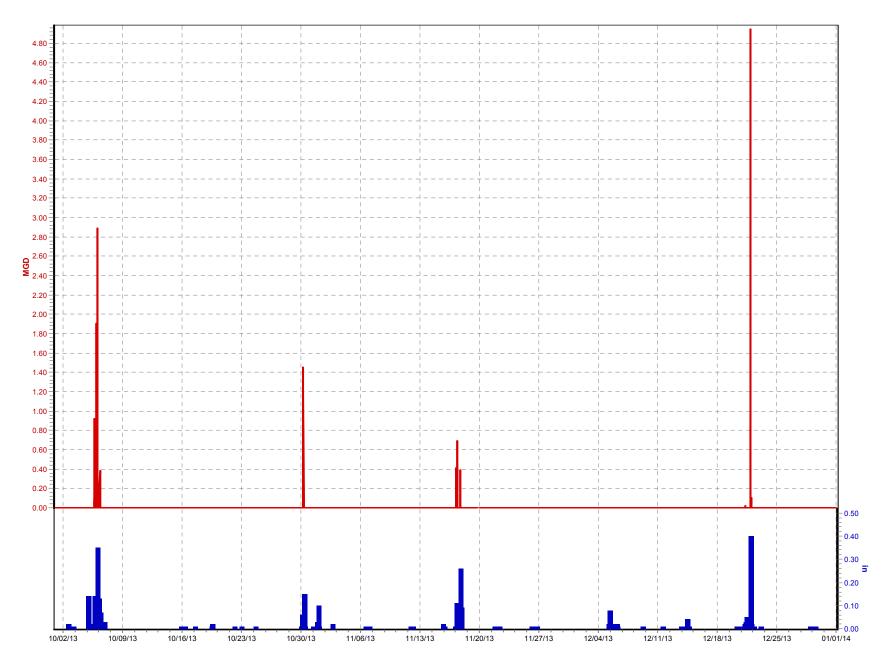
Flow (MGD) TR12_Nightingale PS.Rain (in)



CSO200 S 3rd St (10/01/13 to 01/01/14)

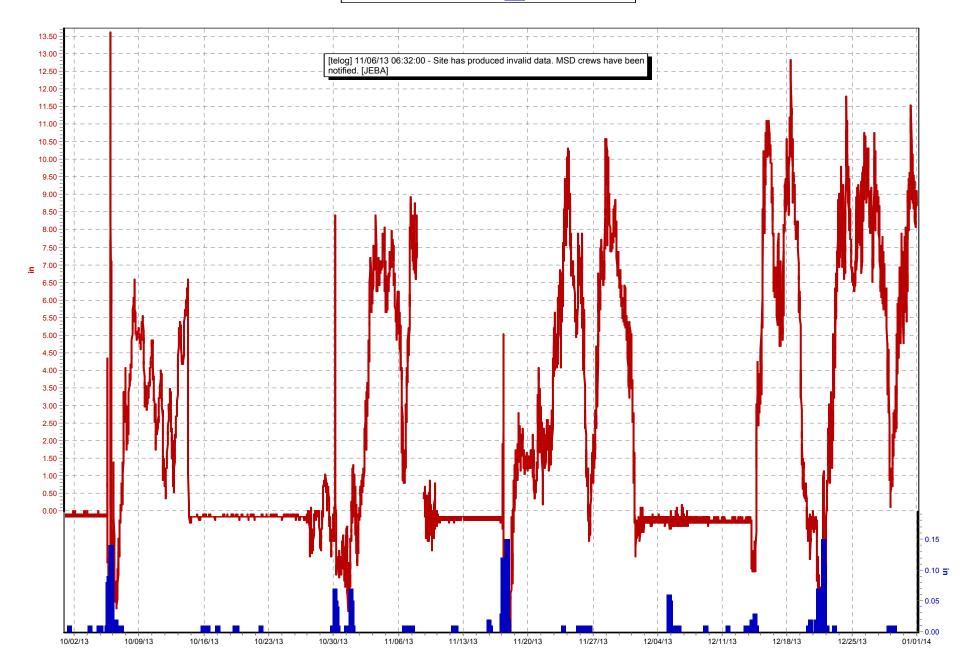
Final Flow (MGD)

TR12_Nightingale PS.Rain (in)



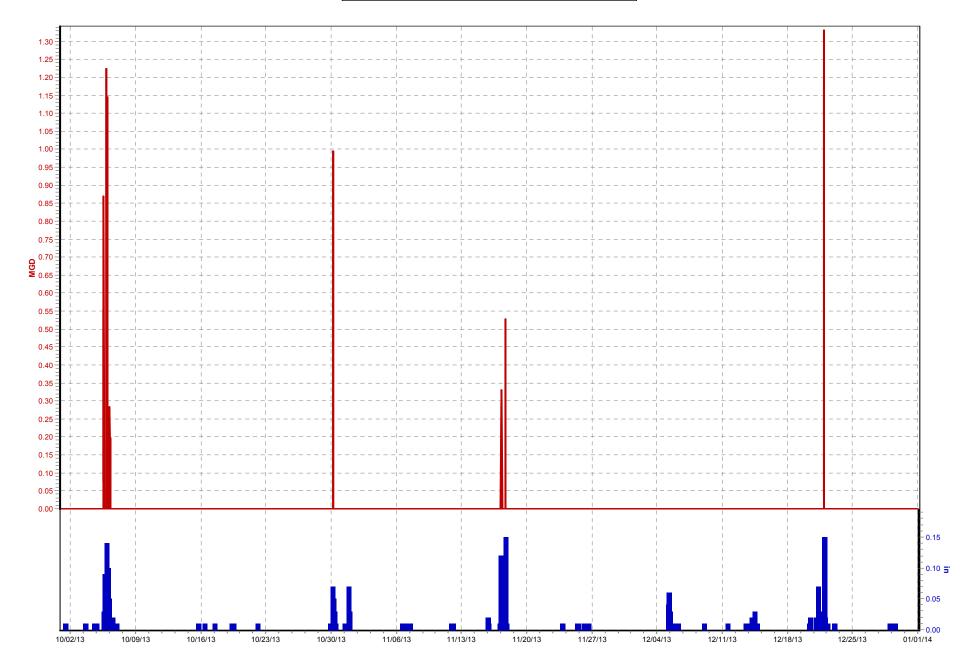
CSO201 Upstream of Dam (10/01/13 to 01/01/14)

CSO Level (in) TR05_Beargrass PS.Rain (in)



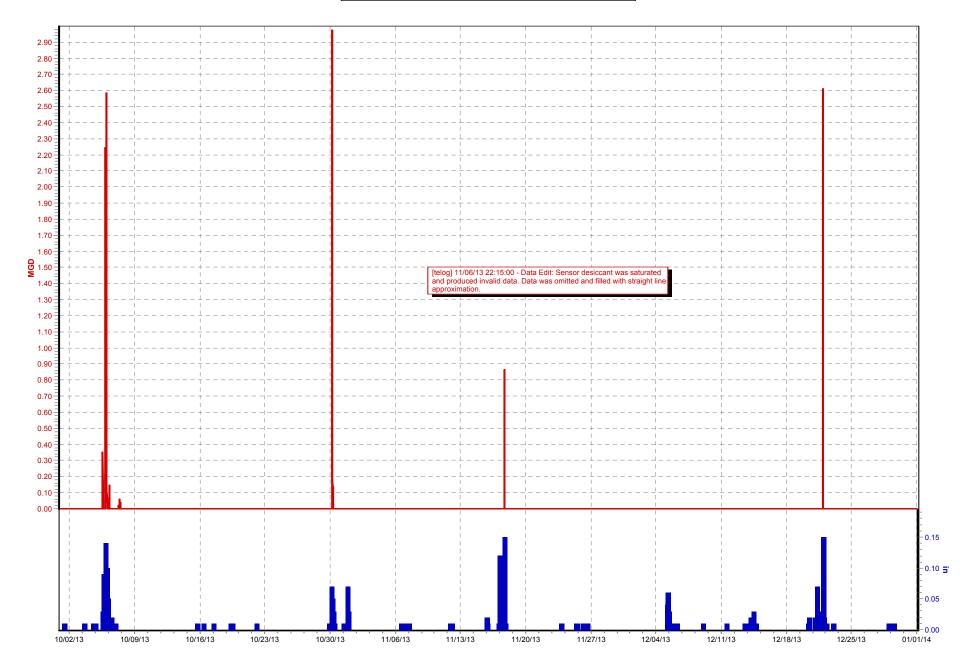
CSO202 W Ormsby Ave (10/01/13 to 01/01/14)

Flow (MGD)



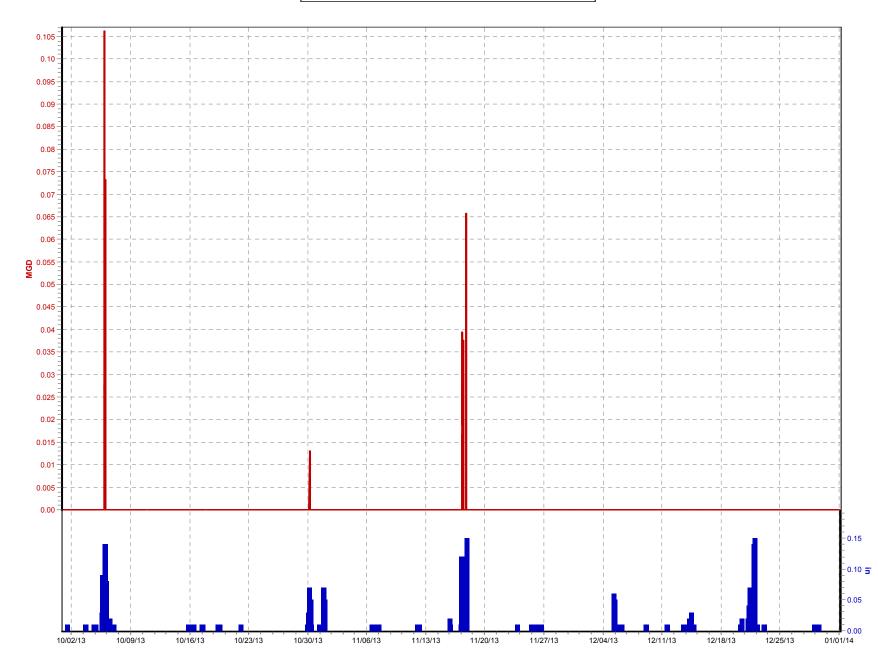
CSO203 S 4th St (10/01/13 to 01/01/14) **V**

Final Flow (MGD)



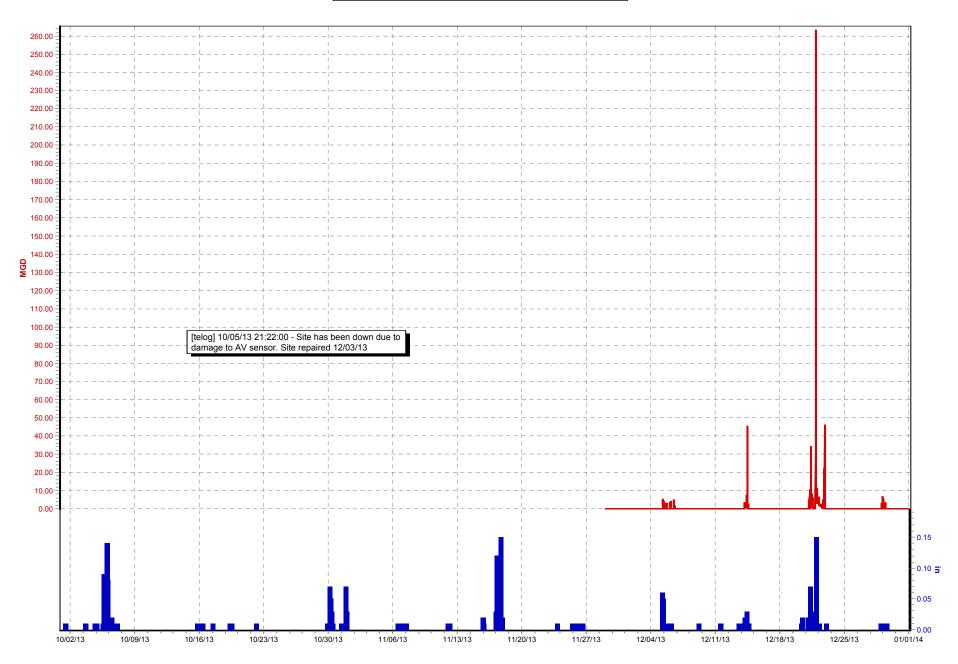
CSO205 Morgan St (10/01/13 to 01/01/14)

Raw Flow (MGD) TR05_Beargrass PS.Rain (in)



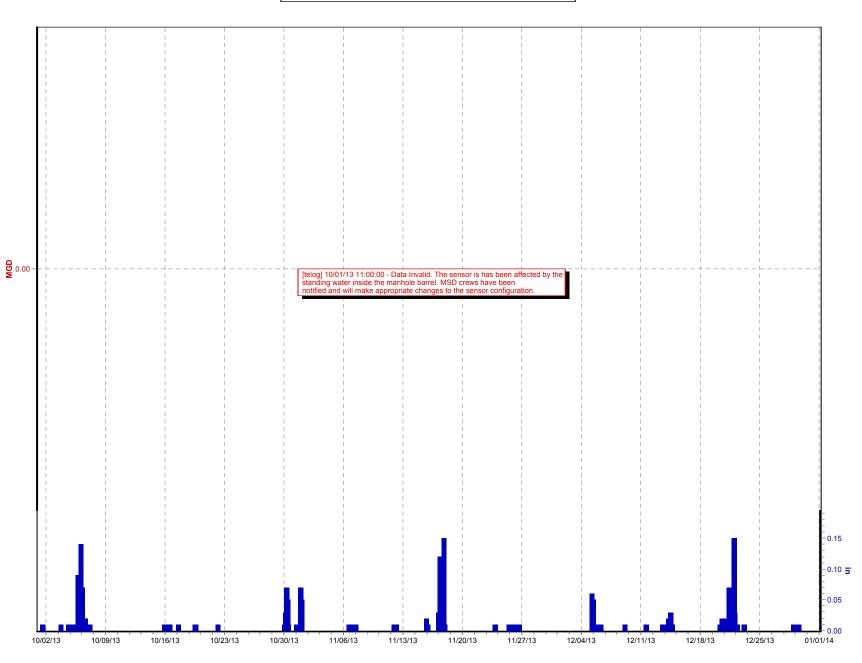
CSO206 Cherokee Park_String St (10/01/13 to 01/01/14)

Final Flow (MGD)



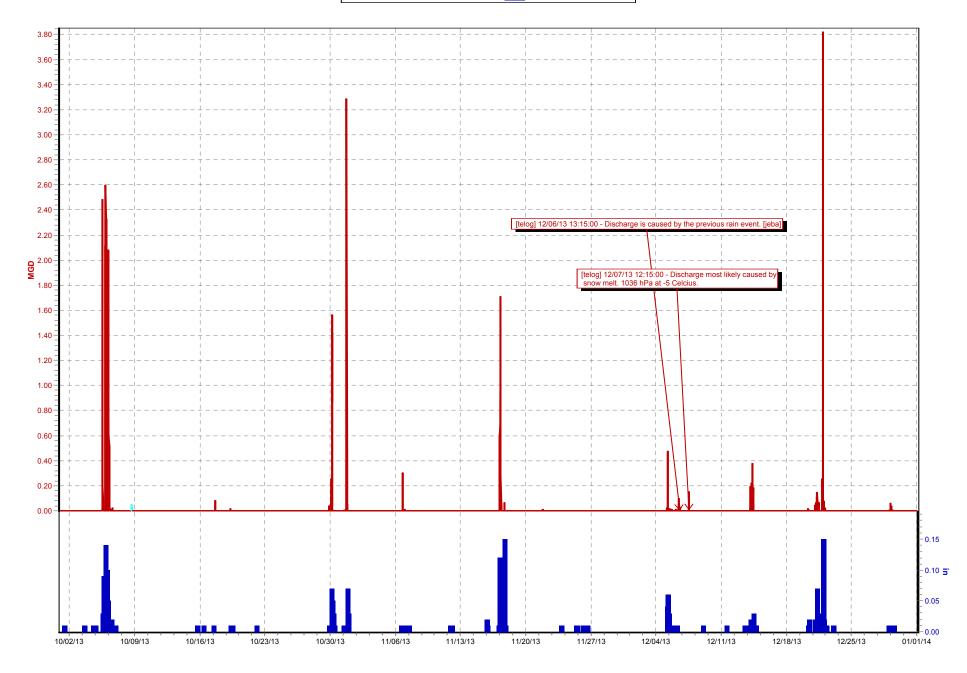
CSO207 W Jefferson St_2nd St (10/01/13 to 01/01/14)

Final Flow (MGD) TR05_Beargrass PS.Rain (in)



CSO208 W Jefferson St_12th St (10/01/13 to 01/01/14)

Flow 1 (MGD) TR05_Beargrass PS.Rain (in)

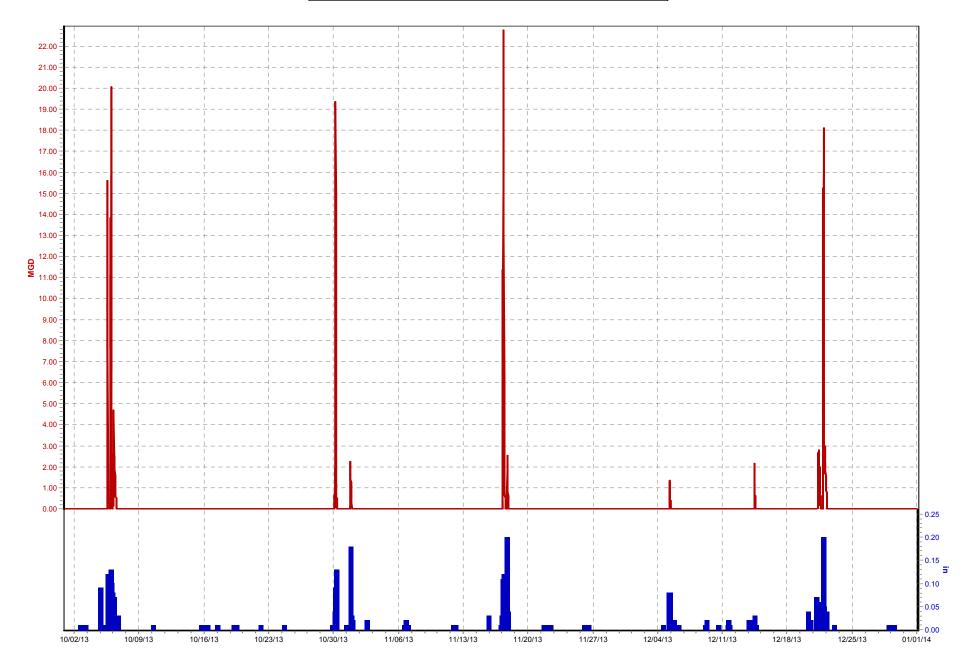


CSO210 Whayne Supply (10/01/13 to 01/01/14) **~**

- Final CSO210 Flow (MGD)

I

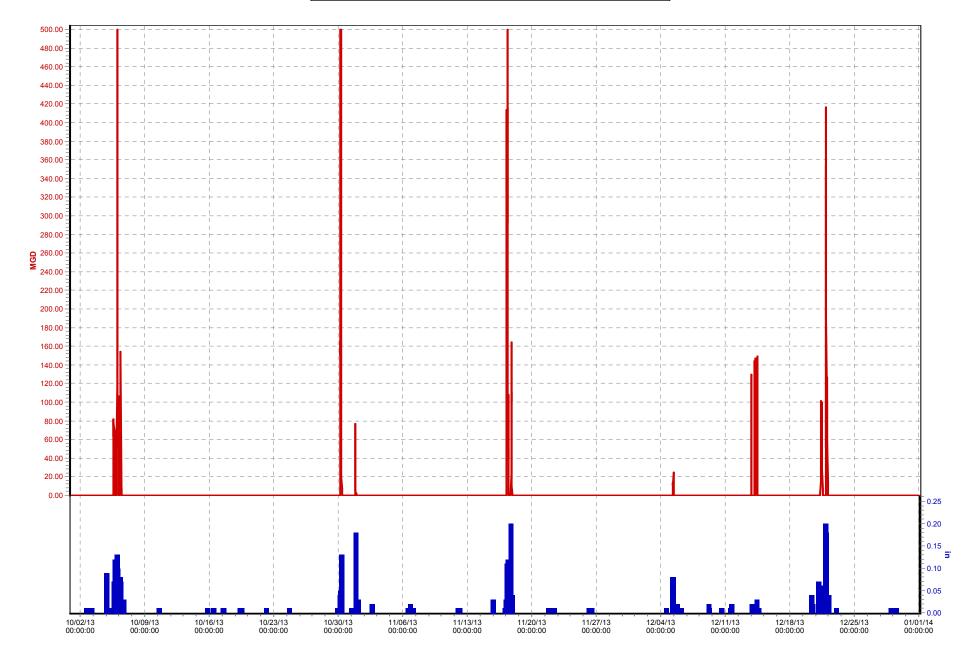
TR04_Morris Forman WQTC.Rain (in)



CSO211 Whayne Supply (10/01/13 to 01/01/14) **v**

- Final Flow (MGD)







Appendix C – Acronyms



Appendix C - Acronyms for Project WIN Quarterly Report

AAM	Advanced Asset Management
AAOV	Annual Average Overflow Volume
ADAPS	Automated Data Processing System
BGC	Beargrass Creek
BMP	Best Management Practices
CCP	Composite Correction Plan
CD	Consent Decree
CMF	Central Maintenance Facility
CMMS	Computerized Maintenance Management System
CMOM	Capacity Management Operations and Maintenance
CPE CSO	Comprehensive Performance Evaluations Combined Sewer Overflow
CSS	Combined Sewer System
CSSA	Continuing Sewer System Assessment
DAP	Discharge Abetement Plan (DAP)
DMR	Discharge Monitoring Report
eB	Enterprise Bridge (Spescom scanning software for document management)
EMC	Event Mean Concentration
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FM	Force Main
FOG	Fats, Oil & Grease
FPS	Flood Pump Station
FSE	Food Service Establishment
FY	Fiscal Year
GCE	Grease Control Equipment
GIS	Geographical Information System
GLPM	Gravity Line Preventive Maintenance
HMI	Human Machine Interface
I&FP	Infrastructure & Flood Protection (MSD Division)
ICA	Interceptor Condition Assessment Identification
ID I&I	
IMS	Inflow and Infiltration
IOAP	Information Management System Integrated Overflow Abatement Plan
ISSDP	Interim Sanitary Sewer Discharge Plan
IT	Information Technology
IWD	Industrial Waste Department
JCPS	Jefferson County Public Schools
KDEP	Kentucky Department of Environmental Protection
KPDES	Kentucky Pollutant Discharge Elimination System
KY	Kentucky
LE	Lateral Extension
LID	Low Impact Development
LIMS	Laboratory Information Management System
LTC	Long Term Control
LTCP	Long Term Control Plan
LOJIC	Louisville and Jefferson County Information Consortium
MDS	Main Diversion Structure
MEB	Main Equipment Building

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Appendix C - Acronyms for Project WIN Quarterly Report

MFWTP	Morris Forman Wastewater Treatment Plant
MG	Million Gallons
MGD	Million Gallons Per Day
MLK	Martin Luther King
MO	Metro Operations
MOA	Memorandum of Agreement
MOR	Monthly Operating Report
MOU	Memorandum of Understanding
MSD	Metropolitan Sewer District (Louisville and Jefferson County)
NDD	Non-Domestic Dischargers
NMC	Nine Minimum Controls
NPR	National Public Radio
ORSANCO	Ohio River Valley Water Sanitation Commission
PACP	Pipeline Assessment and Certification Program
PCM	Post Construction Monitoring
PI	Plant Information System
PM	Preventive Maintenance
POC	Pollutants of Concern
PP	Pumping Package
PS	Pump Station
PSC	Property Service Connection
RDII	Rainfall-Derived Infiltration and Inflow
RS	Regulatory Services
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SIU	Significant Industrial User
SOP	Standard Operating Procedure
SORP	Sewer Overflow Response Protocol
SSDP	Sanitary Sewer Discharge Plan
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR2	Southwestern Outfall Relief - Phase 2
SWPS	Southwestern Pump Station
ТМ	Technical Memorandum
TMDL	Total Maximum Daily Load
TV	Television
UIM	Utility Information Management
UK	University of Kentucky
USACE	US Army Corps of Engineers
USF&W	United States Fish and Wildlife
USGS	United States Geological Survey
WDR	Wastewater Discharge Regulators
WIN	Waterway Improvements Now
WQT	Water Quality Tool
WQTC	Water Quality Treatment Center
WW	Wet Weather
WWT	Wet Weather Team



Appendix D – SCAP Balance



ISD M Vo ropolitan Sower Ostrie

APNO	APNAME	<u>APTYPE</u>	<u>FLOW</u>	Approval Date	Planned Credit Required/ Flow Reduction	Running Total	<u>Released/</u> Completed	Actual Credit Required/ Flow Reduction	Running Total
CCREEK									
235533	CEDAR CK IFP WORK AUG05-NOV08	SCAPCREDIT		1	6,521.00	6,521.00	11/1/08	6,521.00	6,521.00
236380	FAIRMOUNT ROAD MH REHAB	SCAPCREDIT			10,734.00	17,255.00	6/5/09	10,734.00	17,255.00
362688	CCRK IFP ACTIVITY NOV08-MAY12	SCAPCREDIT		5/1/12	2,161.00	19,416.00	5/1/12	2,161.00	19,416.00
362689	CCRK IFP ACTIVITY JUN12-AUG12	SCAPCREDIT		8/31/12	2,047.00	21,463.00	8/31/12	2,047.00	21,463.00
320989	LITTLE CEDAR CREEK I/I REHABIL	SCAPCREDIT		9/27/12	652,907.00	674,370.00	9/27/12	652,907.00	674,370.00
263934	ST JAMES CROSSINGS	LAT EXT	9,000.00	7/21/11	-19,575.00	654,795.00	11/30/12	-19,575.00	654,795.00
196927	SONIC SPRINGS	LAT EXT	3,600.00	1/26/12	-7,830.00	646,965.00	12/5/12	0.00	654,795.00
239030	POPLAR LAKES PH 1	LAT EXT	18,000.00	6/6/13	-39,150.00	607,815.00			654,795.00
13LE1003	Bardstown Woods Sec 6	LAT EXT	5,200.00	6/6/13	-11,310.00	596,505.00	İ		654,795.00
COMBSYST									
359368	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/05	148,000.00	148,000.00	12/31/05	148,000.00	148,000.00
359370	CALENDAR 2006 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/06	288,000.00	436,000.00	12/31/06	288,000.00	436,000.00
359371	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/07	2,560,000.00	2,996,000.00	12/31/07	2,560,000.00	2,996,000.00
359308	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/07	20,000.00	3,016,000.00	12/31/07	20,000.00	3,016,000.00
236304	PARK BOUNDARY RD EMRGNCY REHAB	SCAPCREDIT			29,264.00	3,045,264.00	10/25/08	29,264.00	3,045,264.00
235576	CSO AREA IFP WORK AUG05-NOV08	SCAPCREDIT			97,061.00	3,142,325.00	11/1/08	97,061.00	3,142,325.00
236299	BEARGRASS INT REHAB PH1 COMBIN	SCAPCREDIT			8,640.00	3,150,965.00	12/22/08	8,640.00	3,150,965.00
359372	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/08	1,144,000.00	4,294,965.00	12/31/08	1,144,000.00	4,294,965.00
359312	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/09	40,000.00	4,334,965.00	12/31/09	40,000.00	4,334,965.00
359373	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/09	692,000.00	5,026,965.00	12/31/09	692,000.00	5,026,965.00
267827	ATTEBERRY SMITH	LAT EXT	570.00	6/9/10	-1,239.75	5,025,725.25	İ		5,026,965.00
281513	NEW MEDICAL OFFICE BUILDING	LAT EXT	2,500.00	10/28/10	-5,437.50	5,020,287.75	i		5,026,965.00
320977	BEARGRASS CREEK PHASE II - FY1	SCAPCREDIT		12/14/10	8,640.00	5,028,927.75	12/14/10	8,640.00	5,035,605.00
359314	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/10	56,000.00	5,084,927.75	12/31/10	56,000.00	5,091,605.00
359374	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/10	2,324,000.00	7,408,927.75	12/31/10	2,324,000.00	7,415,605.00
320912	HAZELWOOD REHABILITATION - FY1	SCAPCREDIT		6/30/11	38,700.00	7,447,627.75	6/30/11	38,700.00	7,454,305.00
359315	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	88,000.00	7,535,627.75	12/31/11	88,000.00	7,542,305.00
359377	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/11	1,204,000.00	8,739,627.75	12/31/11	1,204,000.00	8,746,305.00
267824	MASONIC HOMES MIRALEA INDEPEND	LAT EXT	29,400.00	6/9/10	-63,945.00	8,675,682.75	10/16/12	0.00	8,746,305.00
320985	CAMP TAYLOR AREA 5 I/I REHABIL	SCAPCREDIT		11/1/12	3,291.00	8,678,973.75	11/1/12	3,291.00	8,749,596.00
359317	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	112,000.00	8,790,973.75	12/31/12	112,000.00	8,861,596.00
359378	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/12	492,000.00	9,282,973.75	12/31/12	492,000.00	9,353,596.00
350320	KENWOOD BUSINESS CENTER LOT 1	LAT EXT	6,710.00	1/11/13	-14,594.25	9,268,379.50	12/3/13	0.00	9,353,596.00

6,521.00 ,255.00 9,416.00 1,463.00 4,370.00 4,795.00 4,795.00 4,795.00 4,795.00 3,000.00 6,000.00 6,000.00 6,000.00 5,264.00 2,325.00 ,965.00 ,965.00 4,965.00 6,965.00 6,965.00 6,965.00 5,605.00 1,605.00 5,605.00 ,305.00 2,305.00 6,305.00 6,305.00 9,596.00 ,596.00 3,596.00 3,596.00 Page 1 of 9



					Planned Credit Required/	Dunning Total	Released/	<u>Actual</u> <u>Credit Required/</u>	Dunning Total
<u>APNO</u>	APNAME	<u>APTYPE</u>	<u>FLOW</u>	Approval Date	Flow Reduction	Running Total	Completed	Flow Reduction	Running Total
13LE1174	CVS PHARMACY STORE #06208	LAT EXT	800.00	12/27/13	-1,740.00	9,266,639.50			9,353,596.00
FFORK									
361689	LAKE FOREST REHAB PH1	SCAPCREDIT			174,769.00	174,769.00	1	29,710.73	29,710.73
235557	FLOYDSFRK IFP WORK AUG05-NOV08	SCAPCREDIT			14,540.00	189,309.00	11/1/08	14,540.00	44,250.73
362638	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/08	1.00	189,310.00	12/31/08	1.00	44,251.73
362647	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/09	4.00	189,314.00	6/30/09	4.00	44,255.73
238873	OAKLAWN SENIOR LIVING FACILITY	LAT EXT	8,250.00	8/20/09	-17,943.75	171,370.25	İ		44,255.73
362651	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/09	524.00	171,894.25	12/31/09	524.00	44,779.73
230379	SHAKES RUN SECTION 4	LAT EXT	3,770.00	4/22/09	-8,199.75	163,694.50	1/5/10	-8,199.75	36,579.98
362655	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/10	81.00	163,775.50	6/30/10	81.00	36,660.98
362661	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/10	14,155.00	177,930.50	12/31/10	14,155.00	50,815.98
362669	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/11	22,707.00	200,637.50	6/30/11	22,707.00	73,522.98
309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2,880.00	9/30/11	-6,264.00	194,373.50	İ		73,522.98
242480	CLAIBOURNE CROSSINGS PHASE 2	LAT EXT	0.00	9/3/09	0.00	194,373.50	10/17/11	0.00	73,522.98
359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	4,000.00	198,373.50	12/31/11	4,000.00	77,522.98
362674	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/11	2.00	198,375.50	12/31/11	2.00	77,524.98
362678	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/12	331.00	198,706.50	6/30/12	331.00	77,855.98
337398	GLEN LAKES SEC 4 PH1	LAT EXT	8,000.00	8/10/12	-17,400.00	181,306.50	İ		77,855.98
341050	FLAT ROCK RIDGE SEC 3	LAT EXT	26,400.00	9/25/12	-57,420.00	123,886.50			77,855.98
315945	BROOKFIELD SEC 3	LAT EXT	12,800.00	12/8/11	-27,840.00	96,046.50	10/26/12	-27,004.80	50,851.18
362683	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/12	3.00	96,049.50	12/31/12	3.00	50,854.18
353011	BROOKFIELD SEC 2B	LAT EXT	7,600.00	2/7/13	-16,530.00	79,519.50			50,854.18
331397	BROOKFIELD SEC 2A	LAT EXT	14,400.00	6/14/12	-31,320.00	48,199.50	5/8/13	0.00	50,854.18
13LE1011	BROOKFIELD SEC 4	LAT EXT	16,800.00	6/13/13	-36,540.00	11,659.50	İ		50,854.18
309600	CLAIBOURNE CROSSINGS MULTI-FAM	LAT EXT	71,400.00	3/15/12	-155,295.00	-143,635.50	10/4/13	0.00	50,854.18
13LE1168	MAPCO - ELLINGSWORTH LANE	LAT EXT	6,066.00	12/19/13	-13,193.55	-156,829.05	i		50,854.18
13LE1180	SINGLE FAMILY HOME 13901 OLD HENRY TRAIL	LAT EXT	400.00	1/2/14	-870.00	-157,699.05	i i		50,854.18
13LE1000	The Enclave at Glen Lakes Sec 2	LAT EXT	6,800.00	5/30/13	-14,790.00	-172,489.05	1/10/14	0.00	50,854.18
HCREEK									
235561	HITE CK IFP WORK AUG05-NOV08	SCAPCREDIT			6,404.00	6,404.00	11/1/08	6,404.00	6,404.00
362641	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/08	2.00	6,406.00	12/31/08	2.00	6,406.00
362648	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/09	8.00	6,414.00	6/30/09	8.00	6,414.00
362652	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/09	8.00	6,422.00	12/31/09	8.00	6,422.00
362657	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/10	329.00	6,751.00	6/30/10	329.00	6,751.00
295322	FLOYDSBURG RD I/I INVEST/REHAB	SCAPCREDIT			28,437.00	35,188.00	12/17/10	28,437.00	35,188.00

3,596.00 9,710.73 ,250.73 4,251.73 ,255.73 4,255.73 4,779.73 6,579.98 6,660.98),815.98 8,522.98 8,522.98 3,522.98 ,522.98 7,524.98 7,855.98 ,855.98 7,855.98 0,851.18),854.18),854.18),854.18),854.18),854.18),854.18),854.18),854.18 6,404.00 6,406.00 6,414.00 6,422.00 6,751.00 5,188.00

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					<u>Planned</u> <u>Credit Required/</u>		Released/	<u>Actual</u> <u>Credit Required/</u>	
<u>APNO</u>	APNAME	<u>APTYPE</u>	FLOW	Approval Date	Flow Reduction	Running Total	<u>Completed</u>	Flow Reduction	Running 1
320906	FLOYDSBURG ROAD I/I REHABILITA	SCAPCREDIT		12/17/10	28,437.00	63,625.00	12/17/10	28,437.00	63,6
362662	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/10	3.00	63,628.00	12/31/10	3.00	63,6
362670	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/11	5.00	63,633.00	6/30/11	5.00	63,6
304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9,500.00	7/28/11	-20,662.50	42,970.50			63,6
246638	CHAPMAN COURT S/S	LAT EXT	800.00	10/21/09	-1,740.00	41,230.50	9/28/11	-870.00	62,7
362675	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/11	332.00	41,562.50	12/31/11	332.00	63,0
362679	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/12	5,002.00	46,564.50	6/30/12	5,002.00	68,0
290181	CAMDEN WOOD APARTMENTS	LAT EXT	12,400.00	10/26/11	-26,970.00	19,594.50	8/31/12	0.00	68,0
335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400.00	7/26/12	-13,920.00	5,674.50	12/7/12	-8,769.60	59,3
362684	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/12	3.00	5,677.50	12/31/12	3.00	59,3
241173	INDEPENDENCE PARK @APPLE PATCH	LAT EXT	21,600.00	9/28/12	-46,980.00	-41,302.50	10/4/13	0.00	59,3
13LE1150	SINGLE FAMILY 5800 MOUNT PLEASANT RD	LAT EXT	400.00	11/14/13	-870.00	-42,172.50	İ		59,3
JTOWN									
235563	J-TOWN IFP WORK AUG05-NOV08	SCAPCREDIT		11/1/08	6,203.00	6,203.00	11/1/08	6,203.00	6,2
359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/08	4,000.00	10,203.00	12/31/08	4,000.00	10,2
254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500.00	1/7/10	-5,437.50	4,765.50	8/10/10	-5,437.50	4,7
340213	JEFFERSONTOWN ENG REHAB	SCAPCREDIT		8/11/11	997,448.00	1,002,213.50	8/11/11	997,448.00	1,002,2
359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	4,000.00	1,006,213.50	12/31/11	4,000.00	1,006,2
326360	WATTERSON TRAIL CENTER	LAT EXT	2,745.00	4/19/12	-5,970.38	1,000,243.13			1,006,2
13LE1153	VALUE PLACE	LAT EXT	12,400.00	11/21/13	-26,970.00	973,273.13	İ		1,006,2
13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	1,200.00	11/21/13	-2,610.00	970,663.13			1,006,2
13LE1067	PARK COMMUNITY	LAT EXT	2,220.00	12/27/13	-4,828.50	965,834.63			1,006,2
13LE1178	ELECTRON DRIVE WAREHOUSES	LAT EXT	3,225.00	1/2/14	-7,014.38	958,820.25			1,006,2
14LE1003	ELECTRON DRIVE INDUSTRIAL PARK LOT 1A	LAT EXT	540.00	1/16/14	-1,174.50	957,645.75	i		1,006,2
MCREEK									
359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/05	12,000.00	12,000.00	12/31/05	12,000.00	12,0
359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/07	24,000.00	36,000.00	12/31/07	24,000.00	36,0
235568	MILL CK IFP WORK AUG05-NOV08	SCAPCREDIT			51,530.00	87,530.00	11/1/08	51,530.00	87,5
359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/08	16,000.00	103,530.00	12/31/08	16,000.00	103,5
362642	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/08	93.00	103,623.00	12/31/08	93.00	103,6
362649	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/09	1,507.00	105,130.00	6/30/09	1,507.00	105,1
253586	KINGSFORD RETAIL CENTER	LAT EXT	400.00	12/17/09	-870.00	104,260.00	İ		105,1
362653	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/09	25,272.00	129,532.00	12/31/09	25,272.00	130,4
359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/09	32,000.00	161,532.00	12/31/09	32,000.00	162,4
255156	RIVERVIEW PARK	LAT EXT	750.00	1/7/10	-1,631.25	159,900.75	i		162,4

ng Total 3,625.00 3,628.00 3,633.00 3,633.00 2,763.00 3,095.00 3,097.00 3,097.00 9,327.40 9,330.40 9,330.40 9,330.40 5,203.00 0,203.00 4,765.50 2,213.50 6,213.50 6,213.50 6,213.50 6,213.50 6,213.50 6,213.50 6,213.50 2,000.00 6,000.00 7,530.00 3,530.00 3,623.00 5,130.00 5,130.00 0,402.00 2,402.00 2,402.00

					<u>Planned</u> Credit Required/		Released/	<u>Actual</u> <u>Credit Required/</u>	
<u>APNO</u>	APNAME	<u>APTYPE</u>	<u>FLOW</u>	Approval Date	Flow Reduction	Running Total	Completed	Flow Reduction	Running Total
238421	6840 DIXIE HWY OUTLOT	LAT EXT	2,100.00	7/23/09	-4,567.50	155,333.25	4/28/10	-4,567.50	157,834.50
265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400.00	5/20/10	-870.00	154,463.25			157,834.50
362658	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/10	6,213.00	160,676.25	6/30/10	6,213.00	164,047.50
276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400.00	9/1/10	-870.00	159,806.25			164,047.50
362664	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/10	22,740.00	182,546.25	12/31/10	22,740.00	186,787.50
359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/10	4,000.00	186,546.25	12/31/10	4,000.00	190,787.50
359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/10	8,000.00	194,546.25	12/31/10	8,000.00	198,787.50
320916	SONNE AVE PS REHABILITATION -	SCAPCREDIT		6/30/11	120,800.00	315,346.25	6/30/11	120,800.00	319,587.50
362671	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/11	11,615.00	326,961.25	6/30/11	11,615.00	331,202.50
359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/11	12,000.00	338,961.25	12/31/11	12,000.00	343,202.50
362676	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/11	3,245.00	342,206.25	12/31/11	3,245.00	346,447.50
359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	12,000.00	354,206.25	12/31/11	12,000.00	358,447.50
362680	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/12	2,807.00	357,013.25	6/30/12	2,807.00	361,254.50
361693	FY12 MILL CREEK REHAB	SCAPCREDIT		6/30/12	81,675.00	438,688.25	6/30/12	81,675.00	442,929.50
231800	PIONEER MOBILE HOME PARK	LAT EXT	11,200.00	5/14/09	-24,360.00	414,328.25	7/24/12	-24,360.00	418,569.50
237457	WAVERLY HILLS	LAT EXT	400.00	8/28/09	-870.00	413,458.25	9/18/12	-870.00	417,699.50
343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6,000.00	10/22/12	-13,050.00	400,408.25	İ		417,699.50
359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	148,000.00	548,408.25	12/31/12	148,000.00	565,699.50
362685	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/12	22,980.00	571,388.25	12/31/12	22,980.00	588,679.50
359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/12	4,000.00	575,388.25	12/31/12	4,000.00	592,679.50
224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400.00	2/3/11	-79,170.00	496,218.25	3/20/13	-19,792.50	572,887.00
219525	VERUS DISTRIBUTION	LAT EXT	3,780.00	11/7/13	-8,221.50	487,996.75	İ		572,887.00
13LE1154	RAISING CANE'S DIXIE HWY	LAT EXT	1,400.00	11/21/13	-3,045.00	484,951.75	İ		572,887.00
13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT EXT	400.00	12/27/13	-870.00	484,081.75	İ		572,887.00
14LE1004	SINGLE FAMILY 6190 ANIWA ROAD	LAT EXT	400.00	1/16/14	-870.00	483,211.75	İ		572,887.00
MFORK									
359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/07	84,000.00	84,000.00	12/31/07	84,000.00	84,000.00
359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/07	20,000.00	104,000.00	12/31/07	20,000.00	104,000.00
235566	MID FORK IFP WORK AUG05-NOV08	SCAPCREDIT			43,779.00	147,779.00	11/1/08	43,779.00	147,779.00
359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/08	8,000.00	155,779.00	12/31/08	8,000.00	155,779.00
236517	ANCHOR ESTATES MH REHAB	SCAPCREDIT			15,552.00	171,331.00	1/16/09	15,552.00	171,331.00
217235	SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		3/30/09	437,967.00	609,298.00	3/30/09	437,967.00	609,298.00
235376	MIDDLE FORK INT REHAB PH1	SCAPCREDIT		5/15/09	487,744.00	1,097,042.00	5/15/09	487,744.00	1,097,042.00
179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	-500.00	1/28/10	1,087.50	1,098,129.50	5/26/09	1,087.50	1,098,129.50
250572	1316 WITAWANGA AVE	LAT EXT	400.00	11/12/09	-870.00	1,097,259.50	İ		1,098,129.50
359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/09	24,000.00	1,121,259.50	12/31/09	24,000.00	1,122,129.50

7,834.50 7,834.50 4,047.50 64,047.50 6,787.50 90,787.50 98,787.50 9,587.50 1,202.50 3,202.50 6,447.50 58,447.50 1,254.50 2,929.50 8,569.50 7,699.50 7,699.50 5,699.50 8,679.50 2,679.50 2,887.00 2,887.00 2,887.00 2,887.00 2,887.00 4,000.00 4,000.00 7,779.00 5,779.00 1,331.00 9,298.00 7,042.00 98,129.50 98,129.50 22,129.50 Page 4 of 9



<u>APNO</u>	APNAME	<u>APTYPE</u>	<u>FLOW</u>	Approval Date	Planned Credit Required/ Flow Reduction	Running Total	Released/ Completed	<u>Actual</u> <u>Credit Required/</u> <u>Flow Reduction</u>	Running Tota
359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/09	4,000.00	1,125,259.50	12/31/09	4,000.00	1,126,129.5
197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700.00	1/7/10	-8,047.50	1,117,212.00			1,126,129.5
229834	THE BROOK HOS- DUPONT ADDITION	LAT EXT	1,763.00	7/2/09	-3,834.53	1,113,377.48	4/27/10	-3,834.53	1,122,294.9
265723	Z-XPRESS CAR WASH	LAT EXT	5,449.00	5/20/10	-11,851.58	1,101,525.90			1,122,294.9
359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/10	8,000.00	1,109,525.90	12/31/10	8,000.00	1,130,294.9
359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		. 12/31/10	12,000.00	1,121,525.90	12/31/10	12,000.00	1,142,294.9
285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6,600.00	1/6/11	-14,355.00	1,107,170.90			1,142,294.9
330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		8/11/11	1,359.00	1,108,529.90	8/11/11	1,359.00	1,143,653.9
310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3,100.00	9/30/11	-6,742.50	1,101,787.40			1,143,653.9
320983	HURSTBOURNE I/I INVESTIGATION	SCAPCREDIT		12/27/11	1,408,279.00	2,510,066.40	12/27/11	1,408,279.00	2,551,932.9
359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	16,000.00	2,526,066.40	12/31/11	16,000.00	2,567,932.9
328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT EXT	400.00	5/11/12	-870.00	2,525,196.40			2,567,932.9
328652	CINEMARK THEATER AT MALL ST.MA	LAT EXT	0.00	5/18/12	0.00	2,525,196.40			2,567,932.9
166053	616 & 618 FOUNTAIN AVE S/S	LAT EXT	1,600.00	6/4/12	-3,480.00	2,521,716.40			2,567,932.9
320923	ST MATTHEWS I/I REHABILITATION	SCAPCREDIT			20,841.00	2,542,557.40	8/23/12	20,841.00	2,588,773.
59336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	92,000.00	2,634,557.40	12/31/12	92,000.00	2,680,773.
3SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		6/30/13	14,183.00	2,648,740.40	6/30/13	14,183.00	2,694,956.
19292	WATERMARK ON HURSTBOURNE	LAT EXT	71,600.00	5/18/12	-155,730.00	2,493,010.40	10/22/13	0.00	2,694,956.
3LE1022	HONEST 1 AUTOCARE	LAT EXT	1,500.00	10/31/13	-3,262.50	2,489,747.90			2,694,956.
3LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARI	LAT EXT	1,500.00	11/7/13	-3,262.50	2,486,485.40			2,694,956.
3LE1142	SINGLE FAMILY HOME 1837 WASHINGTON BLVI	LAT EXT	400.00	11/7/13	-870.00	2,485,615.40			2,694,956.
I3LE1144	SINGLE FAMILY 1329 ETAWAH AVE	LAT EXT	400.00	11/7/13	-870.00	2,484,745.40			2,694,956.
I3LE1157	LONG JOHN SILVERS SEAFOOD GRILL	LAT EXT	963.00	11/21/13	-2,094.53	2,482,650.88			2,694,956.
3LE1165	SINGLE FAMILY 8504 LORE LANE	LAT EXT	400.00	11/27/13	-870.00	2,481,780.88			2,694,956.
3LE1163	FIRSTWATCH RESTAURANT	LAT EXT	1,600.00	11/27/13	-3,480.00	2,478,300.88			2,694,956.9
352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766.00	1/24/13	-1,666.05	2,476,634.83	12/31/13	0.00	2,694,956.9
I4LE1001	MIRANDA LAGRANGE RD	LAT EXT	400.00	1/9/14	-870.00	2,475,764.83			2,694,956.9
13LE1094	SINGLE FAMILY 7610 NORWOOD DR	LAT EXT	400.00	1/16/14	-870.00	2,474,894.83			2,694,956.9
33353	8211 OLD WESTPORT RD	LAT EXT	60,800.00	1/23/14	-132,240.00	2,342,654.83	İ		2,694,956.9
ОІТСН									
359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/07	28,000.00	28,000.00	12/31/07	28,000.00	28,000.0
35569	N.DITCH IFP WORK AUG05-NOV08	SCAPCREDIT			11,147.00	39,147.00	11/1/08	11,147.00	39,147.
236363	NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		I	108,760.00	147,907.00	11/25/08	108,760.00	147,907.0
234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2,825.00	10/8/09	-6,144.38	141,762.63	i		147,907.
359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/09	4,000.00	145,762.63	12/31/09	4,000.00	151,907.
284728	SUBWAY - NEW CUT RD	LAT EXT	1,314.00	12/2/10	-2,857.95	142,904.68	i		151,907.0



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359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/10	4,000.00	146,904.68	12/31/10	4,000.00	155,907.00
320908	PARKVIEW ESTATES REHABILITATIO	SCAPCREDIT		6/28/11	36.00	146,940.68	6/28/11	36.00	155,943.00
359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	24,000.00	170,940.68	12/31/11	24,000.00	179,943.00
359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/11	12,000.00	182,940.68	12/31/11	12,000.00	191,943.00
359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	24,000.00	206,940.68	12/31/12	24,000.00	215,943.00
13LE1135	HINTON ENVIRONMENTAL	LAT EXT	400.00	10/31/13	-870.00	206,070.68			215,943.00
13LE1147	CARLON ROOFING	LAT EXT	992.00	11/14/13	-2,157.60	203,913.08			215,943.00
ORFM									
359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/07	56,000.00	56,000.00	12/31/07	56,000.00	56,000.00
359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		12/31/07	4,000.00	60,000.00	12/31/07	4,000.00	60,000.00
235572	ORFM IFP WORK AUG05-NOV08	SCAPCREDIT			19,826.00	79,826.00	11/1/08	19,826.00	79,826.00
362643	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/08	2.00	79,828.00	12/31/08	2.00	79,828.00
362650	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/09	3,836.00	83,664.00	6/30/09	3,836.00	83,664.00
362654	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/09	7,322.00	90,986.00	12/31/09	7,322.00	90,986.00
254919	TRILOGY HEALTH SERVICES. LLC	LAT EXT	8,200.00	1/7/10	-17,835.00	73,151.00	İ		90,986.00
263548	SINGLE FAMILY CONNECTION	LAT EXT	400.00	4/29/10	-870.00	72,281.00	İ		90,986.00
362660	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/10	6,630.00	78,911.00	6/30/10	6,630.00	97,616.00
362665	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/10	165.00	79,076.00	12/31/10	165.00	97,781.00
362672	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/11	4,124.00	83,200.00	6/30/11	4,124.00	101,905.00
280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400.00	9/8/11	-870.00	82,330.00	İ		101,905.00
320920	SHADOW WOOD I/I REHABILITATION	SCAPCREDIT			14,279.00	96,609.00	9/30/11	14,279.00	116,184.00
359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	16,000.00	112,609.00	12/31/11	16,000.00	132,184.00
359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/11	16,000.00	128,609.00	12/31/11	16,000.00	148,184.00
362677	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/11	7,258.00	135,867.00	12/31/11	7,258.00	155,442.00
320921	DERINGTON COURT I/I REHABILITA	SCAPCREDIT		3/1/12	56,208.00	192,075.00	3/1/12	56,208.00	211,650.00
187028	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4,400.00	11/18/10	-9,570.00	182,505.00	3/5/12	-2,871.00	208,779.00
213450	GLENVIEW PARK SUB. SEC 2	LAT EXT	5,600.00	11/18/10	-12,180.00	170,325.00	3/5/12	-2,557.80	206,221.20
322458	KROGER L-707 STORE EXPANSION	LAT EXT	400.00	3/8/12	-870.00	169,455.00	İ		206,221.20
362681	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDIT		6/30/12	18,220.00	187,675.00	6/30/12	18,220.00	224,441.20
292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3,440.00	3/24/11	-7,482.00	180,193.00	7/5/12	-7,482.00	216,959.20
363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		12/18/12	72,703.00	252,896.00	12/18/12	72,703.00	289,662.20
359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	24,000.00	276,896.00	12/31/12	24,000.00	313,662.20
363235	FY13 MUDDY FORK MH REHAB	SCAPCREDIT		12/31/12	41,653.00	318,549.00	12/31/12	41,653.00	355,315.20
362686	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDIT		12/31/12	1,148.00	319,697.00	12/31/12	1,148.00	356,463.20
352634	BAUER PROPERTY	LAT EXT	2,920.00	5/29/13	-6,351.00	313,346.00	i		356,463.20
343729	RETAIL & RESTAURANT	LAT EXT	3,500.00	10/18/12	-7,612.50	305,733.50	6/21/13	0.00	356,463.20

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177756	SUMMIT GARDENS PHASE 1	LAT EXT	32,000.00	7/15/13	-69,600.00	236,133.50			356,463.20
334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3,600.00	7/20/12	-7,830.00	228,303.50	11/7/13	0.00	356,463.20
13LE1145	SINGLE FAMILY 3930 1/2 OLD BROWNSBORO R	LAT EXT	400.00	11/7/13	-870.00	227,433.50			356,463.20
13LE1161	Single Family Residence 3221 Woodside Rd	LAT EXT	400.00	11/27/13	-870.00	226,563.50			356,463.20
199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4,210.00	12/19/13	-9,156.75	217,406.75			356,463.20
13LE1024	Overlook at Beech Spring Farm Sec 4	LAT EXT	5,600.00	6/27/13	-12,180.00	205,226.75	12/31/13	0.00	356,463.20
14LE1005	KFC 11	LAT EXT	1,600.00	1/16/14	-3,480.00	201,746.75		0.00	356,463.20
PCREEK									
320924	LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDIT			1,017,423.00	1,017,423.00		1,017,423.00	1,017,423.00
235574	POND CRK IFP WORK AUG05-NOV08	SCAPCREDIT			71,782.00	1,089,205.00	11/1/08	71,782.00	1,089,205.00
359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		12/31/08	4,000.00	1,093,205.00	12/31/08	4,000.00	1,093,205.00
359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/08	4,000.00	1,097,205.00	12/31/08	4,000.00	1,097,205.00
192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800.00	1/14/09	-1,740.00	1,095,465.00			1,097,205.00
219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900.00	1/15/09	-1,957.50	1,093,507.50			1,097,205.00
359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12/31/09	12,000.00	1,105,507.50	12/31/09	12,000.00	1,109,205.00
359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12/31/09	4,000.00	1,109,507.50	12/31/09	4,000.00	1,113,205.00
261115	EMERGENCY RESTORATION	LAT EXT	400.00	4/1/10	-870.00	1,108,637.50			1,113,205.00
284215	HURSTBOURNE POINTE APTS	LAT EXT	9,600.00	12/2/10	-20,880.00	1,087,757.50			1,113,205.00
359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12/31/10	12,000.00	1,099,757.50	12/31/10	12,000.00	1,125,205.00
187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4,300.00	5/14/09	-9,352.50	1,090,405.00	1/13/11	-9,352.50	1,115,852.50
320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDIT		9/27/11	106,700.00	1,197,105.00	9/27/11	106,700.00	1,222,552.50
320919	LANTANA I/I REHABILITATION - F	SCAPCREDIT		12/29/11	5,000.00	1,202,105.00	12/29/11	5,000.00	1,227,552.50
359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12/31/11	20,000.00	1,222,105.00	12/31/11	20,000.00	1,247,552.50
234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7,050.00	9/7/10	-15,333.75	1,206,771.25	6/19/12	-7,666.88	1,239,885.63
279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,600.00	10/6/10	-20,880.00	1,185,891.25	8/10/12	-19,209.60	1,220,676.03
312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400.00	10/21/11	-870.00	1,185,021.25	8/13/12	-870.00	1,219,806.03
243109	OVERBROOK APARTMENTS	LAT EXT	41,200.00	9/17/09	-89,610.00	1,095,411.25	11/9/12	-44,805.00	1,175,001.03
359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		12/31/12	56,000.00	1,151,411.25	12/31/12	56,000.00	1,231,001.03
348014	ASHTON PARK TOWN HOMES	LAT EXT	30,000.00	4/18/13	-65,250.00	1,086,161.25			1,231,001.03
280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2,480.00	5/9/13	-5,394.00	1,080,767.25			1,231,001.03
335385	HARRISON LOW PRESSURE S/S	LAT EXT	1,600.00	7/19/12	-3,480.00	1,077,287.25	7/2/13	0.00	1,231,001.03
320940	4 RESIDENCE SFU 7821 MANSLICK	LAT EXT	400.00	2/16/12	-870.00	1,076,417.25	8/16/13	0.00	1,231,001.03
324886	PNC BANK	LAT EXT	400.00	4/5/12	-870.00	1,075,547.25	9/6/13	0.00	1,231,001.03
13LE1131	NATIONAL TURNPIKE & CHERRY LANE SANITAF	LAT EXT	3,200.00	10/31/13	-6,960.00	1,068,587.25			1,231,001.03
13LE1056	MORNING POINTE AT HURSTBOURNE	LAT EXT	13,000.00	11/7/13	-28,275.00	1,040,312.25			1,231,001.03
230231	ATLAS SIDING & WINDOW COMPANY	LAT EXT	400.00	11/27/13	-870.00	1,039,442.25			1,231,001.03

6,463.20 6,463.20 6,463.20 6,463.20 6,463.20 ,423.00 9,205.00 3,205.00 ,205.00 ,205.00 ,205.00 9,205.00 3,205.00 3,205.00 3,205.00 5,205.00 5,852.50 2,552.50 ,552.50 7,552.50 9,885.63 0,676.03 9,806.03 5,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 ,001.03 1,001.03 Page 7 of 9



		<u>Actual</u> Credit Reguired/	Released/		<u>Planned</u> <u>Credit Required/</u>					
308206 APPLEGATE FARMS LAT EXT 57,200.00 5/18/12 -124,410.00 866,747.25 12/10/13 0.00 13LE1167 KAMERI AUTO SERVICE CENTER LAT EXT 400.00 12/11/13 -870.00 865,877.25 13LE1017 CITYSCAPE APARTMENTS LAT EXT 84,400.00 12/19/13 -183,570.00 682,307.25 13LE1169 THOMAS STONY BROOK DRIVE LAT EXT 24,000.00 12/19/13 -52,200.00 630,107.25 13LE1179 TIMBERBEND SUBDIVISION SEC 5B LAT EXT 6,400.00 1/2/14 -13,920.00 616,187.25 14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1102 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 234,192.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 28,000.00 12/31/07 12/8,000.00 12/31/07 359355 CALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 12/8,000.00 136,000.00 12/31/07 12/20,00.00 <tr< td=""><td>Running Total</td><td></td><td>Completed</td><td>Running Total</td><td></td><td>Approval Date</td><td>FLOW</td><td>APTYPE</td><td>APNAME</td><td><u>APNO</u></td></tr<>	Running Total		Completed	Running Total		Approval Date	FLOW	APTYPE	APNAME	<u>APNO</u>
13LE1167 KAMERI AUTO SERVICE CENTER LAT EXT 400.00 12/11/13 -870.00 865.877.25 13LE1017 CITYSCAPE APARTIMENTS LAT EXT 84,400.00 12/19/13 -183,570.00 682,307.25 13LE1169 THOMAS STONY BROOK DRIVE LAT EXT 24,000.00 12/19/13 -52,200.00 630,107.25 13LE1179 TIMBERBEND SUBDIVISION SEC 5B LAT EXT 6,400.00 1/2/14 -13,920.00 616,167.25 14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1102 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 295,092.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 142,800.00 1/23/14 -6090.00 234,192.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 12/31/07 8,000.00 8,000.00 12/31/07 8,000.00 359355 CALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 12/8,000.00 136,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV88 SCAPCREDIT 12/2/31/07 14,808.	1,231,001.03	0.00	12/10/13	991,157.25	-48,285.00	12/13/12	22,200.00	LAT EXT	PRESTON GARDENS APTS	341439
13LE1017 CITYSCAPE APARTMENTS LAT EXT 84,400.00 12/19/13 -183,570.00 682,307.25 13LE1169 THOMAS STONY BROCK DRIVE LAT EXT 24,000.00 12/19/13 -52,200.00 630,107.25 13LE1179 TIMBERBEND SUBDIVISION SEC 5B LAT EXT 6,400.00 1/2/14 -13,920.00 616,187.25 14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1025 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 236,992.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 28,000.00 1/23/14 -60,900.00 234,192.00 SEDIV SCAPCREDIT 12/31/07 8,000.00 12/31/07 128,000.00 359365 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 12/31/07 128,000.00 236575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 71,472.00 207,472.00 11/1/08 71,472.00 236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 12/31/08 134,808.00 522,280.00	1,231,001.03	0.00	12/10/13	866,747.25	-124,410.00	5/18/12	57,200.00	LAT EXT	APPLEGATE FARMS	308206
13LE1169 THOMAS STONY BROOK DRIVE LAT EXT 24,000.00 12/19/13 -52,200.00 630,107.25 13LE1179 TIMBERBEND SUBDIVISION SEC 5B LAT EXT 6,400.00 1/2/14 -13,920.00 616,187.25 14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1025 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 295,992.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 28,000.00 1/23/14 -60,800.00 234,192.00 SEDIV SCALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 8,000.00 136,000.00 12/31/07 128,000.00 359355 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/21/07 128,000.00 236575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 12/31/07 128,000.00 12/22/08 314,808.00 236264 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 12/231/08 16,000.00 660,988.00 12/21/08 12/23/08 14,808.00	1,231,001.03		Ì	865,877.25	-870.00	12/11/13	400.00	LAT EXT	KAMERI AUTO SERVICE CENTER	13LE1167
13LE1179 TIMBERBEND SUBDIVISION SEC 5B LAT EXT 6,400.00 1/2/14 -13,920.00 616,187.25 14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1025 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 295,092.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 142,800.00 1/23/14 -60,900.00 234,192.00 SEDIV SEDIV SCAPCREDIT SCAPCREDIT 12/31/07 8,000.00 12/31/07 8,000.00 359355 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/31/07 128,000.00 236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 12/31/08 314,808.00 522,280.00 12/22/08 314,808.00 236296 BEARGRASS INT REHAB PH 1 SEDIV SCAPCREDIT 12/31/08 16,000.00 660,966.00 12/31/08 16,000.00	1,231,001.03		Ì	682,307.25	-183,570.00	12/19/13	84,400.00	LAT EXT	CITYSCAPE APARTMENTS	13LE1017
14LE1006 OKOLONA CARWASH LAT EXT 4,830.00 1/16/14 -10,505.25 605,682.00 13LE1025 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 295,092.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 142,800.00 1/23/14 -60,900.00 234,192.00 SEDIV SEDIV SCAPCREDIT SCAPCREDIT 12/31/07 8,000.00 12/31/07 8,000.00 359355 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 12/31/07 128,000.00 359440 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 12/31/07 128,000.00 12/31/07 128,000.00 236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 12/23/108 314,808.00 522,280.00 12/22/08 314,808.00 236296 BEARGRASS INT REHAB PH1 SEDIV SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359345 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT <t< td=""><td>1,231,001.03</td><td></td><td>İ</td><td>630,107.25</td><td>-52,200.00</td><td>12/19/13</td><td>24,000.00</td><td>LAT EXT</td><td>THOMAS STONY BROOK DRIVE</td><td>13LE1169</td></t<>	1,231,001.03		İ	630,107.25	-52,200.00	12/19/13	24,000.00	LAT EXT	THOMAS STONY BROOK DRIVE	13LE1169
13LE1025 WILDWOOD GREEN LAT EXT 142,800.00 1/23/14 -310,590.00 295,092.00 13LE1140 JEFFERSON POST APARTMENTS LAT EXT 28,000.00 1/23/14 -60,900.00 234,192.00 SEDIV 359355 CALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 8,000.00 12/31/07 8,000.00 359440 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/22/08 314,808.00 236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 12/23/07 122,688.00 644,968.00 12/22/08 314,808.00 236296 BEARGRASS INT REHAB PH1 SEDIV SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/21/08 122,688.00 359356 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/231/08 4,000.00 664,968.00	1,231,001.03		İ	616,187.25	-13,920.00	1/2/14	6,400.00	LAT EXT	TIMBERBEND SUBDIVISION SEC 5B	13LE1179
13LE1140 JEFFERSON POST APARTMENTS LAT EXT 28,000.00 1/23/14 -60,900.00 234,192.00 SEDIV SEDIV SCAPCREDIT SCAPCREDIT 12/31/07 8,000.00 8,000.00 12/31/07 8,000.00 359355 CALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 8,000.00 12/31/07 12/30/07 12/30/07 359440 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 12/8,000.00 136,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT I	1,231,001.03		Ì	605,682.00	-10,505.25	1/16/14	4,830.00	LAT EXT	OKOLONA CARWASH	14LE1006
SEDIV 359355 CALENDAR 2007 SUMP PUMP CREDIT SCAPCREDIT 12/31/07 8,000.00 8,000.00 12/31/07 8,000.00 359440 CALENDAR 2007 DOWNSPOUT CREDIT SCAPCREDIT 12/31/07 128,000.00 136,000.00 12/31/07 128,000.00 235575 SE DIV IFP WORK AUG05-NOV08 SCAPCREDIT 12/31/07 128,000.00 12/20.00 11/1/08 71,472.00 236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 314,808.00 522,280.00 12/22/08 314,808.00 236296 BEARGRASS INT REHAB PH1 SEDIV SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/21/08 122,688.00 359441 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/31/08 4,000.00 664,968.00 12/31/08 4,000.00	1,231,001.03		İ	295,092.00	-310,590.00	1/23/14	142,800.00	LAT EXT	WILDWOOD GREEN	13LE1025
359355CALENDAR 2007 SUMP PUMP CREDITSCAPCREDIT12/31/078,000.008,000.0012/31/078,000.00359440CALENDAR 2007 DOWNSPOUT CREDITSCAPCREDIT12/31/07128,000.00136,000.0012/31/07128,000.00235575SE DIV IFP WORK AUG05-NOV08SCAPCREDIT12/31/07128,000.0011/1/0871,472.00236214GOLDSMITH BUECHB ICA PHI REHABSCAPCREDIT314,808.00522,280.0012/22/08314,808.00236296BEARGRASS INT REHAB PH1 SEDIVSCAPCREDIT12/31/0816,000.00644,968.0012/21/0812,688.00359441CALENDAR 2008 DOWNSPOUT CREDITSCAPCREDIT12/31/0816,000.00660,968.0012/31/0816,000.00359356CALENDAR 2008 SUMP PUMP CREDITSCAPCREDIT12/31/084,000.00664,968.0012/31/084,000.00	1,231,001.03		İ	234,192.00	-60,900.00	1/23/14	28,000.00	LAT EXT	JEFFERSON POST APARTMENTS	13LE1140
359440CALENDAR 2007 DOWNSPOUT CREDITSCAPCREDIT12/31/07128,000.00136,000.0012/31/07128,000.00235575SE DIV IFP WORK AUG05-NOV08SCAPCREDIT71,472.00207,472.0011/1/0871,472.00236214GOLDSMITH BUECHB ICA PHI REHABSCAPCREDIT314,808.00522,280.0012/22/08314,808.00236296BEARGRASS INT REHAB PH1 SEDIVSCAPCREDIT12/31/0816,000.00644,968.0012/22/08122,688.00359441CALENDAR 2008 DOWNSPOUT CREDITSCAPCREDIT12/31/0816,000.00660,968.0012/31/0816,000.00359356CALENDAR 2008 SUMP PUMP CREDITSCAPCREDIT12/31/084,000.00664,968.0012/31/084,000.00										SEDIV
235575SE DIV IFP WORK AUG05-NOV08SCAPCREDIT71,472.00207,472.0011/1/0871,472.00236214GOLDSMITH BUECHB ICA PHI REHABSCAPCREDIT314,808.00522,280.0012/22/08314,808.00236296BEARGRASS INT REHAB PH1 SEDIVSCAPCREDIT122,688.00644,968.0012/22/08122,688.00359441CALENDAR 2008 DOWNSPOUT CREDITSCAPCREDIT12/31/0816,000.00660,968.0012/31/0816,000.00359356CALENDAR 2008 SUMP PUMP CREDITSCAPCREDIT12/31/084,000.00664,968.0012/31/084,000.00	8,000.00	8,000.00	12/31/07	8,000.00	8,000.00	12/31/07		SCAPCREDIT	CALENDAR 2007 SUMP PUMP CREDIT	359355
236214 GOLDSMITH BUECHB ICA PHI REHAB SCAPCREDIT 314,808.00 522,280.00 12/22/08 314,808.00 236296 BEARGRASS INT REHAB PH1 SEDIV SCAPCREDIT 122,688.00 644,968.00 12/22/08 122,688.00 359441 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/31/08 4,000.00 664,968.00 12/31/08 4,000.00	136,000.00	128,000.00	12/31/07	136,000.00	128,000.00	12/31/07		SCAPCREDIT	CALENDAR 2007 DOWNSPOUT CREDIT	359440
236296 BEARGRASS INT REHAB PH1 SEDIV SCAPCREDIT 122,688.00 644,968.00 12/22/08 122,688.00 359441 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/31/08 4,000.00 664,968.00 12/31/08 4,000.00	207,472.00	71,472.00	11/1/08	207,472.00	71,472.00			SCAPCREDIT	SE DIV IFP WORK AUG05-NOV08	235575
359441 CALENDAR 2008 DOWNSPOUT CREDIT SCAPCREDIT 12/31/08 16,000.00 660,968.00 12/31/08 16,000.00 359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/31/08 4,000.00 664,968.00 12/31/08 4,000.00	522,280.00	314,808.00	12/22/08	522,280.00	314,808.00			SCAPCREDIT	GOLDSMITH BUECHB ICA PHI REHAB	236214
359356 CALENDAR 2008 SUMP PUMP CREDIT SCAPCREDIT 12/31/08 4,000.00 664,968.00 12/31/08 4,000.00	644,968.00	122,688.00	12/22/08	644,968.00	122,688.00			SCAPCREDIT	BEARGRASS INT REHAB PH1 SEDIV	236296
	660,968.00	16,000.00	12/31/08	660,968.00	16,000.00	12/31/08		SCAPCREDIT	CALENDAR 2008 DOWNSPOUT CREDIT	359441
229854 TINY HANDS DAYCARE LAT EXT 1,225.00 4/22/09 -2,664.38 662,303.63	664,968.00	4,000.00	12/31/08	664,968.00	4,000.00	12/31/08		SCAPCREDIT	CALENDAR 2008 SUMP PUMP CREDIT	359356
	664,968.00		İ	662,303.63	-2,664.38	4/22/09	1,225.00	LAT EXT	TINY HANDS DAYCARE	229854
238328 LOUISVILLE COLLEGIATE SPORTS LAT EXT 400.00 7/23/09 -870.00 661,433.63	664,968.00		İ	661,433.63	-870.00	7/23/09	400.00	LAT EXT	LOUISVILLE COLLEGIATE SPORTS	238328
241759 FRISCHS BIG BOY RESTAURANT LAT EXT 2,400.00 10/8/09 -5,220.00 656,213.63	664,968.00		İ	656,213.63	-5,220.00	10/8/09	2,400.00	LAT EXT	FRISCHS BIG BOY RESTAURANT	241759
359357 CALENDAR 2009 SUMP PUMP CREDIT SCAPCREDIT 12/31/09 12,000.00 668,213.63 12/31/09 12,000.00	676,968.00	12,000.00	12/31/09	668,213.63	12,000.00	12/31/09		SCAPCREDIT	CALENDAR 2009 SUMP PUMP CREDIT	359357
359443 CALENDAR 2009 DOWNSPOUT CREDIT SCAPCREDIT 12/31/09 8,000.00 676,213.63 12/31/09 8,000.00	684,968.00	8,000.00	12/31/09	676,213.63	8,000.00	12/31/09		SCAPCREDIT	CALENDAR 2009 DOWNSPOUT CREDIT	359443
235291 SULLIVAN COLLEGE OF TECHNOLOGY LAT EXT 900.00 6/25/09 -1,957.50 674,256.13 2/11/10 -1,957.50	683,010.50	-1,957.50	2/11/10	674,256.13	-1,957.50	6/25/09	900.00	LAT EXT	SULLIVAN COLLEGE OF TECHNOLOGY	235291
320993 BEARGRASS CREEK PHASE II - FY1 SCAPCREDIT 12/14/10 10,368.00 684,624.13 12/14/10 10,368.00	693,378.50	10,368.00	12/14/10	684,624.13	10,368.00	12/14/10		SCAPCREDIT	BEARGRASS CREEK PHASE II - FY1	320993
359358 CALENDAR 2010 SUMP PUMP CREDIT SCAPCREDIT 12/31/10 4,000.00 688,624.13 12/31/10 4,000.00	697,378.50	4,000.00	12/31/10	688,624.13	4,000.00	12/31/10		SCAPCREDIT	CALENDAR 2010 SUMP PUMP CREDIT	359358
359444 CALENDAR 2010 DOWNSPOUT CREDIT SCAPCREDIT 12/31/10 24,000.00 712,624.13 12/31/10 24,000.00	721,378.50	24,000.00	12/31/10	712,624.13	24,000.00	12/31/10		SCAPCREDIT	CALENDAR 2010 DOWNSPOUT CREDIT	359444
286513 GARDINER POINT RESIDENCE HALL LAT EXT 10,800.00 1/6/11 -23,490.00 689,134.13	721,378.50			689,134.13	-23,490.00	1/6/11	10,800.00	LAT EXT	GARDINER POINT RESIDENCE HALL	286513
276378 TIRE DISCOUNTERS - BARDSTOWN LAT EXT 1,500.00 9/1/10 -3,262.50 685,871.63 5/6/11 -3,262.50	718,116.00	-3,262.50	5/6/11	685,871.63	-3,262.50	9/1/10	1,500.00	LAT EXT	TIRE DISCOUNTERS - BARDSTOWN	276378
359445 CALENDAR 2011 DOWNSPOUT CREDIT SCAPCREDIT 12/31/11 8,000.00 693,871.63 12/31/11 8,000.00	726,116.00	8,000.00	12/31/11	693,871.63	8,000.00	12/31/11		SCAPCREDIT	CALENDAR 2011 DOWNSPOUT CREDIT	359445
359359 CALENDAR 2011 SUMP PUMP CREDIT SCAPCREDIT 12/31/11 64,000.00 757,871.63 12/31/11 64,000.00	790,116.00	64,000.00	12/31/11	757,871.63	64,000.00	12/31/11		SCAPCREDIT	CALENDAR 2011 SUMP PUMP CREDIT	359359
307018 HOOK PROPERTY FAMILY DOLLAR LAT EXT 400.00 3/8/12 -870.00 757,001.63 8/10/12 -870.00	789,246.00	-870.00	8/10/12	757,001.63	-870.00	3/8/12	400.00	LAT EXT	HOOK PROPERTY FAMILY DOLLAR	307018
359361 CALENDAR 2012 SUMP PUMP CREDIT SCAPCREDIT 12/31/12 68,000.00 825,001.63 12/31/12 68,000.00	857,246.00	68,000.00	12/31/12	825,001.63	68,000.00	12/31/12		SCAPCREDIT	CALENDAR 2012 SUMP PUMP CREDIT	359361
359446 CALENDAR 2012 DOWNSPOUT CREDIT SCAPCREDIT 12/31/12 4,000.00 829,001.63 12/31/12 4,000.00	861,246.00	4,000.00	12/31/12	829,001.63	4,000.00	12/31/12		SCAPCREDIT	CALENDAR 2012 DOWNSPOUT CREDIT	359446
187741 BROOKSTONE SENIOR APARTMENTS LAT EXT 16,800.00 8/5/10 -36,540.00 792,461.63 3/11/13 -36,540.00	824,706.00	-36,540.00	3/11/13	792,461.63	-36,540.00	8/5/10	16,800.00	LAT EXT	BROOKSTONE SENIOR APARTMENTS	187741
232601 RAINTREE/MARIAN CT P/S ELIM LAT EXT 105,800.00 6/15/09 -230,115.00 562,346.63 6/14/13 -161,080.50	663,625.50	-161,080.50	6/14/13	562,346.63	-230,115.00	6/15/09	105,800.00	LAT EXT	RAINTREE/MARIAN CT P/S ELIM	232601
330437 COLLEGIATE ATHLETIC FIELD LAT EXT 800.00 6/4/12 -1,740.00 560,606.63 11/26/13 -1,740.00	661,885.50	-1,740.00	11/26/13	560,606.63	-1,740.00	6/4/12	800.00	LAT EXT	COLLEGIATE ATHLETIC FIELD	330437

1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 1,001.03 8,000.00 6,000.00 7,472.00 2,280.00 4,968.00 0,968.00 4,968.00 4,968.00 4,968.00 4,968.00 6,968.00 34,968.00 33,010.50 3,378.50 97,378.50 1,378.50 1,378.50 18,116.00 26,116.00 90,116.00 9,246.00 7,246.00 1,246.00 4,706.00 3,625.50 1,885.50

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					<u>Planned</u>			<u>Actual</u>	
					Credit Required/		Released/	Credit Required/	
<u>APNO</u>	APNAME	<u>APTYPE</u>	FLOW	Approval Date	Flow Reduction	Running Total	Completed	Flow Reduction	Running T

g Total



Appendix E – CSO Storm Frequency Data



CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO015	10/4/13 18:45	10/4/13 20:15	0.06	158,143	0.2	790,715	0.26	0.17	1 hr	CloudBurst
CSO015	10/5/13 12:45	10/6/13 19:15	1.27	78,745,609	4.54	17,344,848	4.80	10.17	24 hr	CloudBurst
CSO015	10/30/13 5:00	10/30/13 10:30	0.23	4,358,030	1.32	3,301,538	1.33	0.67	6 hr	CloudBurst
CSO015	10/31/13 21:45	11/1/13 0:00	0.09	226,106	0.88	256,939	2.20	0.36	12 hr	CloudBurst
CSO015	11/17/13 6:30	11/18/13 1:15	0.78	27,702,277	2.65	10,453,689	2.87	2.12	6 hr	CloudBurst
CSO015	11/26/13 7:45	11/26/13 12:30	0.20	1,611,822	0.05	32,236,448	0.17	0.02	48 hr	CloudBurst
CSO015	12/14/13 11:15	12/14/13 14:30	0.14	316,173	0.78	405,350	1.27	0.33	6 hr	CloudBurst
CSO015	12/21/13 8:30	12/22/13 16:15	1.32	24,638,050	1.37	17,983,978	3.31	0.63	12 hr	CloudBurst
CSO016	10/5/13 13:15	10/6/13 12:00	0.95	19,629,167	4.5	4,362,037	4.73	9.84	24 hr	CloudBurst
CSO016	10/30/13 3:00	11/1/13 11:00	2.33	5,085,625	1.47	3,459,609	2.42	0.75	6 hr	CloudBurst
CSO016	11/17/13 5:30	12/2/13 12:15	15.28	9,200,417	2.84	3,239,583	3.19	2.12	6 hr	CloudBurst
CSO016	12/5/13 7:30	12/12/13 7:15	6.99	985,521	0.81	1,216,692	1.27	0.26	48 hr	CloudBurst
CSO016	12/14/13 10:30	12/17/13 6:30	2.83	527,708	0.74	713,119	1.20	0.31	12 hr	CloudBurst
CSO016	12/21/13 7:30	12/30/13 14:45	9.30	11,136,875	3.19	3,491,183	4.07	1.90	24 hr	CloudBurst
CSO018	10/5/13 13:00	10/7/13 12:15	1.97	2,815,104	5.29	532,156	5.52	22.17	24 hr	CloudBurst
CSO018	10/30/13 5:00	10/30/13 7:15	0.09	72,083	1.57	45,913	1.58	0.82	1 hr	CloudBurst
CSO018	11/17/13 6:30	11/18/13 11:15	1.20	1,954,792	2.88	678,747	3.06	2.52	6 hr	CloudBurst
CSO018	12/21/13 11:15	12/22/13 23:00	1.49	2,247,604	3.51	640,343	3.58	4.64	3 hr	Atlas14
CSO019	10/17/13 9:45	10/17/13 11:45	0.08	5,622	0.03	187,405	0.07	0.02	6 hr	CloudBurst
CSO019	10/19/13 7:15	10/19/13 13:00	0.24	93,994	0.16	587,466	0.23	0.08	6 hr	CloudBurst
CSO019	10/29/13 21:15	10/30/13 14:00	0.70	6,647,436	1.21	5,493,749	1.22	0.59	6 hr	CloudBurst
CSO019	10/31/13 11:15	11/1/13 13:00	1.07	5,367,723	0.96	5,591,378	2.17	0.41	1 hr	CloudBurst
CSO019	11/6/13 16:45	11/7/13 8:00	0.64	239,328	0.25	957,311	1.25	0.11	12 hr	CloudBurst
CSO019	11/12/13 5:45	11/12/13 5:45	0.00	7,710	0.05	154,192	0.30	0.02	48 hr	CloudBurst
CSO019	11/15/13 18:45	11/15/13 20:15	0.06	12,111	0.11	110,097	0.16	0.09	1 hr	CloudBurst
CSO019	11/17/13 3:30	11/18/13 15:30	1.50	24,651,710	3.43	7,187,088	3.59	8.37	6 hr	CloudBurst
CSO019	11/21/13 19:15	11/22/13 10:45	0.65	35,764	0.14	255,459	3.68	0.09	3 hr	CloudBurst
CSO019	11/26/13 3:45	11/26/13 5:15	0.06	6,714			0.19	0.03		CloudBurst
CSO019	12/5/13 5:30	12/7/13 6:30	2.04	1,842,353	0.77	2,392,666	0.77	0.25	48 hr	CloudBurst
CSO019	12/13/13 20:30	12/15/13 1:15	1.20	1,772,505	0.68	2,606,625	1.03	0.28	12 hr	CloudBurst
CSO019	12/20/13 12:00	12/20/13 12:00	0.00	1,280	0.06	21,327	0.76	0.03	12 hr	CloudBurst
CSO019	12/21/13 2:00	12/22/13 23:15	1.89	28,043,799		8,446,927	4.01	2.24	24 hr	CloudBurst
CSO019	12/29/13 1:00	12/29/13 17:15	0.68	379,055	0.52	728,953	0.76	0.23	12 hr	CloudBurst
CSO020	10/5/13 13:15	10/7/13 23:00	2.41	176,025,546	3.64	48,358,667	3.77	4.00	24 hr	CloudBurst
CSO020	10/30/13 2:15	10/30/13 11:15	0.38	16,913,964	1.39	12,168,319	1.39	0.69	6 hr	CloudBurst
CSO020	10/31/13 20:00	11/1/13 1:00	0.21	8,845,282	0.68	13,007,768	2.07	0.26	24 hr	CloudBurst
CSO020	11/17/13 5:45	11/18/13 23:30	1.74	90,650,953	2.31	39,242,837	2.43	0.99	6 hr	CloudBurst
CSO020	12/5/13 7:45	12/5/13 13:15	0.23	5,815,678		7,006,841	0.29	0.27	48 hr	CloudBurst
CSO020	12/6/13 12:30	12/6/13 14:45	0.09	1,301,337	0.83	1,567,876	0.65	0.27	48 hr	CloudBurst
CSO020	12/14/13 8:00	12/14/13 19:15	0.47	10,123,684	0.77	13,147,642	1.14	0.31	12 hr	CloudBurst
CSO020	12/21/13 6:15	12/23/13 23:30	2.72	113,814,492	2.85	39,934,909	3.32	1.27	24 hr	CloudBurst
CSO020	12/29/13 4:00	12/29/13 9:30	0.23	6,759,372	0.47	14,381,642	0.48	0.21	12 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO028	10/5/13 21:00	10/5/13 23:30	0.10	15,937	3.21	4,965	2.24	2.28	24 hr	CloudBurst
CSO028	10/30/13 5:00	10/30/13 5:00	0.00	787	1.41	558	1.11	0.72	1 hr	CloudBurst
CSO028	12/21/13 22:30	12/21/13 22:45	0.01	5,895	1.77	3,330	2.46	0.96	6 hr	CloudBurst
CSO029	11/17/13 5:30	11/17/13 9:15	0.16	76,948	2.38	32,331	2.06	1.11	6 hr	CloudBurst
CSO029	11/17/13 17:45	11/17/13 18:00	0.01	17,293	2.38	7,266	2.52	1.11	6 hr	CloudBurst
CSO029	12/5/13 7:30	12/5/13 7:30	0.00	8,107	0.8	10,133	0.15	0.26	48 hr	CloudBurst
CSO029	12/21/13 8:00	12/21/13 8:00	0.00	8,882	1.11	8,002	0.91	0.51	12 hr	CloudBurst
CSO029	12/21/13 21:15	12/21/13 23:15	0.08	1,233,806	1.77	697,066	2.50	0.96	6 hr	CloudBurst
CSO031	10/5/13 22:30	10/6/13 6:30	0.33	37,757	3.21	11,762	2.82	2.28	24 hr	CloudBurst
CSO031	10/30/13 5:00	10/30/13 5:00	0.00	8,506	1.41	6,033	1.11	0.72	1 hr	CloudBurst
CSO034	10/5/13 14:15	10/5/13 23:30	0.39	85,787	3.21	26,725	2.24	2.28	24 hr	CloudBurst
CSO034	10/30/13 4:45	10/30/13 5:00	0.01	20,543	1.41	14,569	1.11	0.72	1 hr	CloudBurst
CSO034	11/17/13 6:00	11/17/13 8:15	0.09	11,077	2.38	4,654	1.84	1.11	6 hr	CloudBurst
CSO034	11/17/13 18:00	11/17/13 18:00	0.00	6,934	2.38	2,914	2.52	1.11	6 hr	CloudBurst
CSO034	12/21/13 22:00	12/21/13 22:45	0.03	72,977	1.77	41,230	2.46	0.96	6 hr	CloudBurst
CSO036	10/5/13 13:00	10/6/13 6:00	0.71	363,820	4.1	88,737	3.60	6.53	24 hr	CloudBurst
CSO036	10/30/13 2:15	10/30/13 5:45	0.15	35,934	1.51	23,797	1.49	0.75	6 hr	CloudBurst
CSO036	10/31/13 19:30	10/31/13 19:30	0.00	1,884	0.71	2,653	2.07	0.28	24 hr	CloudBurst
CSO036	11/17/13 5:30	11/17/13 8:45	0.14	28,698	2.16	13,286	1.76	0.94	6 hr	CloudBurst
CSO036	12/5/13 7:30	12/5/13 7:30	0.00	706	0.84	841	0.18	0.27	48 hr	CloudBurst
CSO036	12/21/13 8:15	12/21/13 10:45	0.10	1,732	2.56	677	1.12	0.97	24 hr	CloudBurst
CSO036	12/21/13 21:15	12/22/13 0:00	0.11	175,725	2.56	68,643	2.37	0.97	24 hr	CloudBurst
CSO050	10/3/13 2:45	10/3/13 2:45	0.00	995	0.09	11,056	0.15	0.04	12 hr	CloudBurst
CSO050	10/5/13 12:15	10/6/13 15:15	1.13	3,604,758	4.32	834,435	4.50	8.63	24 hr	CloudBurst
CSO050	10/19/13 7:30	10/19/13 7:30	0.00	394	0.2	1,968	0.17	0.10	6 hr	CloudBurst
CSO050	10/29/13 21:30	10/30/13 6:45	0.39	474,485	1.27	373,610	1.28	0.61	6 hr	CloudBurst
CSO050	10/31/13 12:00	10/31/13 21:00	0.38	298,454	0.8	373,068	2.02	0.34	12 hr	CloudBurst
CSO050	11/6/13 19:15	11/6/13 19:15	0.00	901			0.90	0.11		CloudBurst
CSO050	11/15/13 18:15	11/15/13 18:45	0.02	3,382	0.1	33,818	0.14	0.08	1 hr	CloudBurst
CSO050	11/17/13 4:15	11/17/13 19:15	0.63	1,817,018		615,938	3.09	2.00	6 hr	CloudBurst
CSO050	12/5/13 5:30	12/5/13 11:45	0.26	84,443	0.79	106,890	0.26	0.26	48 hr	CloudBurst
CSO050	12/6/13 2:45	12/6/13 11:45	0.38	4,997	0.79	6,326	0.46	0.26	48 hr	CloudBurst
CSO050	12/14/13 4:15	12/14/13 11:30	0.30	21,755	0.67	32,471	1.05	0.27	12 hr	CloudBurst
CSO050	12/20/13 7:30	12/20/13 7:30	0.00	3,516		50,223	0.73	0.04	6 hr	CloudBurst
CSO050	12/21/13 2:00	12/21/13 13:00	0.46	252,111	3.11	81,065	1.73	1.82	24 hr	CloudBurst
CSO050	12/21/13 21:15	12/22/13 3:30	0.26	1,341,953	3.11	431,496	3.17	1.82	24 hr	CloudBurst
CSO050	12/29/13 5:00	12/29/13 6:30	0.06	4,066	0.5	8,132	0.38	0.22	12 hr	CloudBurst
CSO051	10/5/13 13:00	10/6/13 6:15	0.72	238,572	4.32	55,225	3.91	8.63	24 hr	CloudBurst
CSO051	10/30/13 2:30	11/2/13 20:45	3.76	47,917	1.27	37,730	2.09	0.61	6 hr	CloudBurst
CSO051	11/17/13 4:15	11/18/13 22:00	1.74	166,144	2.95	56,320	3.09	2.00	6 hr	CloudBurst
CSO051	12/5/13 5:30	12/5/13 23:30	0.75	1,040		1,317	0.31	0.26	48 hr	CloudBurst
CSO051	12/21/13 7:30	12/22/13 0:00	0.69	81,883	3.11	26,329	3.08	1.82	24 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO053	10/5/13 12:30	10/6/13 12:15	0.99	1,489,167	4.23	352,049	4.38	7.98	24 hr	CloudBurst
CSO053	10/30/13 1:30	10/30/13 5:45	0.18	252,474	1.06	238,183	1.03	0.50	6 hr	CloudBurst
CSO053	10/31/13 19:00	10/31/13 20:00	0.04	110,372	0.71	155,453	1.71	0.28	24 hr	CloudBurst
CSO053	11/15/13 18:30	11/15/13 18:30	0.00	640	0.1	6,396	0.14	0.09	1 hr	CloudBurst
CSO053	11/17/13 4:30	11/17/13 19:15	0.61	919,605	2.59	355,060	2.73	1.61	6 hr	CloudBurst
CSO053	12/5/13 5:30	12/5/13 7:45	0.09	45,396	0.76	59,732	0.16	0.25	48 hr	CloudBurst
CSO053	12/14/13 5:15	12/14/13 10:45	0.23	99,320	0.64	155,187	0.99	0.26	12 hr	CloudBurst
CSO053	12/21/13 3:45	12/21/13 12:30	0.36	136,554	2.75	49,656	1.71	1.08	24 hr	CloudBurst
CSO053	12/21/13 21:15	12/22/13 0:45	0.15	731,344	2.75	265,943	2.62	1.08	24 hr	CloudBurst
CSO054	10/5/13 12:00	10/6/13 12:00	1.00	501,263	4.23	118,502	4.38	7.98	24 hr	CloudBurst
CSO054	10/17/13 9:30	10/17/13 9:30	0.00	8	0.03	280	0.05	0.03	1 hr	CloudBurst
CSO054	10/19/13 7:00	10/19/13 9:30	0.10	882	0.19	4,640	0.20	0.10	6 hr	CloudBurst
CSO054	10/29/13 20:45	10/30/13 7:15	0.44	26,795	1.06	25,279	1.06	0.50	6 hr	CloudBurst
CSO054	10/31/13 11:30	10/31/13 20:45	0.39	14,544	0.71	20,484	1.72	0.28	24 hr	CloudBurst
CSO054	11/6/13 19:00	11/6/13 21:00	0.08	390	0.25	1,559	0.87	0.12	12 hr	CloudBurst
CSO054	11/15/13 18:00	11/15/13 18:15	0.01	547	0.1	5,472	0.14	0.09	1 hr	CloudBurst
CSO054	11/17/13 3:00	11/17/13 19:45	0.70	218,958	2.59	84,540	2.73	1.61	6 hr	CloudBurst
CSO054	11/21/13 18:45	11/21/13 19:00	0.01	187	0.13	1,436	2.79	0.09	1 hr	CloudBurst
CSO054	12/5/13 5:15	12/6/13 13:45	1.35	17,467	0.76	22,982	0.49	0.25	48 hr	CloudBurst
CSO054	12/14/13 5:45	12/14/13 12:00	0.26	4,260	0.64	6,657	0.99	0.26	12 hr	CloudBurst
CSO054	12/20/13 7:15	12/20/13 7:15	0.00	175	0.07	2,497	0.71	0.05	1 hr	CloudBurst
CSO054	12/21/13 1:45	12/21/13 12:30	0.45	8,235	2.75	2,994	1.74	1.08	24 hr	CloudBurst
CSO054	12/21/13 21:00	12/22/13 2:45	0.24	179,517	2.75	65,279	2.77	1.08	24 hr	CloudBurst
CSO054	12/29/13 1:30	12/29/13 9:30	0.33	5,398	0.49	11,016	0.60	0.21	12 hr	CloudBurst
CSO055	10/5/13 13:15	10/6/13 8:45	0.81	322,152	4.23	76,159	4.37	7.98	24 hr	CloudBurst
CSO055	10/30/13 2:15	10/30/13 5:45	0.15	34,201	1.06	32,265	1.03	0.50	6 hr	CloudBurst
CSO055	10/31/13 19:30	10/31/13 19:30	0.00	3,709	0.71	5,224	1.70	0.28	24 hr	CloudBurst
CSO055	11/17/13 6:00	11/17/13 18:00	0.50	211,775	2.59		2.47	1.61	6 hr	CloudBurst
CSO055	12/5/13 7:30	12/5/13 7:30	0.00	403	0.76	530	0.16	0.25	48 hr	CloudBurst
CSO055	12/6/13 10:45	12/6/13 10:45	0.00	438	0.76	577	0.41	0.25	48 hr	CloudBurst
CSO055	12/21/13 12:30	12/21/13 12:45	0.01	760	2.75	276	1.18	1.08	24 hr	CloudBurst
CSO055	12/21/13 21:15	12/22/13 0:45	0.15	95,520	2.75	34,735	2.62	1.08	24 hr	CloudBurst
CSO057	10/5/13 13:15	10/5/13 14:00	0.03	191	3.98	48	0.92	5.56	24 hr	CloudBurst
CSO057	10/5/13 22:15	10/6/13 8:15	0.42	783	3.98	197	3.98	5.56	24 hr	CloudBurst
CSO057	10/30/13 5:00	10/30/13 5:15	0.01	480	1.42	338	1.34	0.70	6 hr	CloudBurst
CSO057	11/17/13 6:45	11/17/13 8:00	0.05	428	2.35	182	1.71	1.08	6 hr	CloudBurst
CSO057	12/5/13 7:15	12/5/13 7:30	0.01	6,152	0.81	7,595	0.18	0.26	48 hr	CloudBurst
CSO057	12/21/13 10:45	12/21/13 10:45	0.00	50	2.97	17	1.09	1.55	24 hr	CloudBurst
CSO057	12/21/13 22:30	12/21/13 22:45	0.01	14,350	2.97	4,831	2.54	1.55	24 hr	CloudBurst
CSO058	10/5/13 13:00	10/6/13 6:00	0.71	519,011	4.09	126,898	3.55	6.45	24 hr	CloudBurst
CSO058	10/30/13 2:00	10/30/13 5:15	0.14	1,104	1.45	761	1.36	0.72	6 hr	CloudBurst
CSO058	10/31/13 19:15	10/31/13 19:15	0.00	699	0.63	1,110	1.96	0.25	12 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO058	11/17/13 5:30	11/17/13 8:30	0.13	39,050	2.34	16,688	1.80	1.03	6 hr	CloudBurst
CSO058	11/17/13 17:45	11/17/13 17:45	0.00	521	2.34	223	2.35	1.03	6 hr	CloudBurst
CSO058	12/5/13 5:15	12/5/13 7:30	0.09	518	0.82	631	0.19	0.27	48 hr	CloudBurst
CSO058	12/6/13 2:30	12/6/13 2:30	0.00	49	0.82	60	0.35	0.27	48 hr	CloudBurst
CSO058	12/6/13 10:45	12/6/13 11:15	0.02	168	0.82	205	0.47	0.27	48 hr	CloudBurst
CSO058	12/14/13 6:30	12/14/13 15:45	0.39	455,181	0.82	555,099	1.32	0.34	12 hr	CloudBurst
CSO058	12/21/13 7:30	12/21/13 8:00	0.02	188	1.14	165	1.04	0.53	12 hr	CloudBurst
CSO058	12/21/13 21:00	12/21/13 23:00	0.08	380,614	1.75	217,494	2.48	0.95	6 hr	CloudBurst
CSO083	10/5/13 22:30	10/6/13 6:15	0.32	93,326	4.28	21,805	3.74	7.90	24 hr	CloudBurst
CSO083	10/19/13 9:45	10/19/13 10:00	0.01	2	0.19	9	0.18	0.10	6 hr	CloudBurst
CSO083	10/30/13 4:30	10/30/13 5:15	0.03	41,266	1.3	31,743	1.22	0.64	6 hr	CloudBurst
CSO083	11/17/13 6:15	11/17/13 8:00	0.07	24,627	2.68	9,189	2.03	1.89	6 hr	CloudBurst
CSO083	11/17/13 17:45	11/17/13 17:45	0.00	64,673	2.68	24,132	2.81	1.89	6 hr	CloudBurst
CSO083	12/21/13 21:30	12/21/13 22:15	0.03	39,252	2.57	15,273	1.91	0.96	24 hr	CloudBurst
CSO084	10/5/13 13:00	10/6/13 10:30	0.90	130,886	4.28	30,581	4.33	7.90	24 hr	CloudBurst
CSO084	10/30/13 2:15	10/30/13 5:45	0.15	1,856	1.3	1,428	1.27	0.64	6 hr	CloudBurst
CSO084	10/31/13 21:00	10/31/13 21:00	0.00	456	0.6	761	1.84	0.23	24 hr	CloudBurst
CSO084	11/17/13 9:45	11/17/13 10:00	0.01	684	2.68	255	2.40	1.89	6 hr	CloudBurst
CSO084	12/5/13 7:15	12/5/13 7:45	0.02	2,469	0.78	3,165	0.18	0.25	48 hr	CloudBurst
CSO084	12/14/13 10:45	12/14/13 10:45	0.00	640	0.81	790	1.11	0.34	12 hr	CloudBurst
CSO084	12/21/13 7:45	12/21/13 11:45	0.17	4,675	2.57	1,819	1.22	0.96	24 hr	CloudBurst
CSO084	12/21/13 23:15	12/22/13 1:00	0.07	10,146	2.57	3,948	2.49	0.96	24 hr	CloudBurst
CSO088	10/5/13 13:00	10/6/13 14:45	1.07	5,139,771	3.89	1,321,278	3.97	5.08	24 hr	CloudBurst
CSO088	10/30/13 4:45	10/30/13 5:45	0.04	42,977	1.16	37,049	1.10	0.56	6 hr	CloudBurst
CSO088	10/31/13 20:45	10/31/13 21:00	0.01	412	0.65	634	1.73	0.25	24 hr	CloudBurst
CSO088	11/17/13 5:30	11/17/13 19:15	0.57	817,817	2.17	376,874	2.30	0.90	6 hr	CloudBurst
CSO088	12/5/13 7:15	12/5/13 7:45	0.02	198	0.78	253	0.16	0.25	48 hr	CloudBurst
CSO088	12/14/13 10:30	12/14/13 10:30	0.00	119			1.03	0.31		CloudBurst
CSO088	12/21/13 7:45	12/21/13 12:15	0.19	72,200	2.81	25,694	1.41	1.24		CloudBurst
CSO088	12/21/13 21:30	12/22/13 3:45	0.26	935,547	2.81	332,935	2.89	1.24	24 hr	CloudBurst
CSO091	10/5/13 12:45	10/6/13 8:45	0.83	508,372	4.59	110,756	4.69	11.17	24 hr	CloudBurst
CSO091	10/30/13 2:45	10/30/13 5:30	0.11	79,913	1.48	53,995	1.44	0.77	1 hr	CloudBurst
CSO091	10/31/13 19:45	10/31/13 21:15	0.06	526	0.59	892	1.98	0.23	24 hr	CloudBurst
CSO091	11/17/13 5:30	11/17/13 9:45	0.18	203,485	2.53	80,429	2.26	1.64	6 hr	CloudBurst
CSO091	11/17/13 18:00	11/17/13 18:15	0.01	10,395	2.53	4,109	2.66	1.64	6 hr	CloudBurst
CSO091	12/5/13 7:00	12/5/13 10:00	0.13	7,719	0.72	10,721	0.18	0.23	48 hr	CloudBurst
CSO091	12/14/13 10:30	12/14/13 10:30	0.00	1,175	0.85	1,382	1.13	0.36	6 hr	CloudBurst
CSO091	12/21/13 8:00	12/21/13 11:30	0.15	5,708	2.4	2,378	1.13	0.91	24 hr	CloudBurst
CSO091	12/21/13 21:30	12/22/13 0:30	0.13	116,362	2.4	48,484	2.32	0.91	24 hr	CloudBurst
CSO092	10/4/13 18:30	10/4/13 18:45	0.01	113	0.1	1,132	0.16	0.09	1 hr	CloudBurst
CSO092	10/5/13 12:15	10/6/13 12:30	1.01	619,590	4.59	134,987	4.70	11.17	24 hr	CloudBurst
CSO092	10/19/13 8:00	10/19/13 12:45	0.20	119	0.2	595	0.24	0.11	6 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO092	10/30/13 0:45	10/30/13 8:00	0.30	111,892	1.48	75,603	1.48	0.77	1 hr	CloudBurst
CSO092	10/31/13 20:15	10/31/13 21:00	0.03	1,717	0.59	2,910	1.97	0.23	24 hr	CloudBurst
CSO092	11/7/13 4:45	11/7/13 8:30	0.16	10	0.19	51	0.83	0.08	12 hr	CloudBurst
CSO092	11/12/13 2:45	11/12/13 2:45	0.00	1	0.05	23	0.23	0.02	48 hr	CloudBurst
CSO092	11/15/13 18:15	11/15/13 19:30	0.05	150	0.11	1,362	0.16	0.10	1 hr	CloudBurst
CSO092	11/17/13 4:15	11/18/13 1:00	0.86	288,721	2.53	114,119	2.69	1.64	6 hr	CloudBurst
CSO092	12/5/13 7:15	12/5/13 7:15	0.00	11	0.72	15	0.15	0.23	48 hr	CloudBurst
CSO092	12/21/13 21:15	12/21/13 23:45	0.10	92,626	2.4	38,594	2.20	0.91	24 hr	CloudBurst
CSO092	12/29/13 6:00	12/29/13 6:00	0.00	12	0.51	24	0.40	0.22	12 hr	CloudBurst
CSO097	10/5/13 12:30	10/8/13 0:30	2.50	1,755,729	5.83	301,154	6.06	36.33	24 hr	CloudBurst
CSO097	10/30/13 2:15	10/30/13 9:45	0.31	254,687	1.96	129,943	1.96	1.57	1 hr	CloudBurst
CSO097	10/31/13 20:15	11/1/13 0:15	0.17	100,521	0.59	170,374	2.55	0.23	24 hr	CloudBurst
CSO097	11/17/13 5:45	11/19/13 0:00	1.76	988,854	2.64	374,566	2.81	2.29	6 hr	CloudBurst
CSO097	12/5/13 7:15	12/5/13 12:00	0.20	53,229	0.7	76,042	0.23	0.23	48 hr	CloudBurst
CSO097	12/6/13 9:30	12/6/13 9:30	0.00	104	0.7	149	0.34	0.23	48 hr	CloudBurst
CSO097	12/14/13 10:30	12/14/13 12:15	0.07	15,000	1.09	13,761	1.29	0.49	6 hr	CloudBurst
CSO097	12/21/13 8:00	12/22/13 20:15	1.51	573,958	2.81	204,256	3.21	1.30	3 hr	Atlas14
CSO097	12/24/13 8:30	12/24/13 9:15	0.03	833	0.01	83,333	2.97	0.01	6 hr	CloudBurst
CSO097	12/29/13 6:15	12/29/13 6:30	0.01	417	0.58	718	0.49	0.26	12 hr	CloudBurst
CSO104	10/30/13 4:45	10/30/13 7:30	0.11	1,106,811	1.7	651,065	1.70	0.85	6 hr	CloudBurst
CSO104	10/31/13 19:15	10/31/13 20:15	0.04	48,929	1.1	44,481	2.70	0.50	1 hr	CloudBurst
CSO104	11/17/13 6:00	11/17/13 10:45	0.20	814,645	2.72	299,502	2.66	2.87	6 hr	CloudBurst
CSO104	12/21/13 21:45	12/22/13 1:15	0.15	746,617	3.31	225,564	3.24	2.24	24 hr	CloudBurst
CSO105	10/2/13 15:30	10/2/13 16:15	0.03	2,086	0.13	16,043	0.19	0.07	1 hr	CloudBurst
CSO105	10/5/13 12:15	10/6/13 16:00	1.16	48,874,009	4.19	11,664,441	4.52	7.10	24 hr	CloudBurst
CSO105	10/19/13 11:00	10/19/13 12:30	0.06	68	0.16	427	0.24	0.08	6 hr	CloudBurst
CSO105	10/30/13 1:15	10/30/13 9:00	0.32	3,178,961	1.7	1,869,977	1.70	0.85	6 hr	CloudBurst
CSO105	10/31/13 12:00	10/31/13 23:15	0.47	5,947,653	1.1	5,406,958	2.80	0.50	1 hr	CloudBurst
CSO105	11/6/13 21:30	11/7/13 2:30	0.21	527	0.22	2,397	1.33	0.10	12 hr	CloudBurst
CSO105	11/15/13 18:30	11/15/13 18:30	0.00	83	0.09	920	0.15	0.07	1 hr	CloudBurst
CSO105	11/17/13 4:15	11/17/13 21:15	0.71	28,736,317	2.72	10,564,822	2.87	2.87	6 hr	CloudBurst
CSO105	12/5/13 5:15	12/5/13 12:45	0.31	1,103,535	0.72	1,532,688	0.21	0.23	48 hr	CloudBurst
CSO105	12/6/13 2:45	12/6/13 14:00	0.47	7,664	0.72	10,645	0.48	0.23	48 hr	CloudBurst
CSO105	12/8/13 15:45	12/8/13 15:45	0.00	2,878	0.29	9,925	1.01	0.19	3 hr	Atlas14
CSO105	12/13/13 20:15	12/14/13 13:45	0.73	924,693	0.72	1,284,295	1.08	0.29	12 hr	CloudBurst
CSO105	12/14/13 23:15	12/14/13 23:15	0.00	163	0.74	220.2702703	1.08	0.29	24 hr	CloudBurst
CSO105	12/20/13 11:15	12/20/13 11:15	0.00	122	0.08	1,524	0.81	0.04	12 hr	CloudBurst
CSO105	12/21/13 2:00	12/22/13 5:45	1.16	29,507,173	3.31	8,914,554	4.03	2.24	24 hr	CloudBurst
CSO105	12/29/13 0:45	12/29/13 11:00	0.43	6,094	0.54	11,285	0.72	0.23	12 hr	CloudBurst
CSO106	12/2/13 12:19	12/2/13 13:24	0.05	13	DWO		0.58			
CSO106	10/4/13 18:45	10/4/13 18:45	0.00	292	0.15	1,945	0.21	0.13	1 hr	CloudBurst
CSO106	10/5/13 12:30	10/6/13 19:00	1.27	459,128	5.83		6.06	36.33	24 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO106	10/30/13 1:15	10/30/13 6:00	0.20	39,867	1.96	20,340	1.91	1.57	1 hr	CloudBurst
CSO106	11/17/13 5:30	11/17/13 21:30	0.67	146,565	2.64	55,517	2.81	2.29	6 hr	CloudBurst
CSO106	11/21/13 19:00	11/21/13 20:00	0.04	750	0.07	10,716	2.80	0.05	3 hr	CloudBurst
CSO106	12/5/13 7:30	12/5/13 8:00	0.02	3,271	0.7	4,673	0.17	0.23	48 hr	CloudBurst
CSO106	12/14/13 10:45	12/14/13 11:15	0.02	3,792	1.09	3,479	1.29	0.49	6 hr	CloudBurst
CSO106	12/21/13 8:00	12/22/13 9:15	1.05	134,900	2.81	48,007	3.21	1.30	3 hr	Atlas14
CSO108	10/4/13 19:15	10/4/13 19:30	0.01	30,366	0.15	202,438	0.22	0.13	1 hr	CloudBurst
CSO108	10/5/13 13:15	10/7/13 13:15	2.00	11,548,495	5.35	2,158,597	5.57	22.83	24 hr	CloudBurst
CSO108	10/30/13 5:15	10/30/13 8:15	0.13	449,336	1.52	295,615	1.52	0.78	6 hr	CloudBurst
CSO108	11/17/13 6:45	11/17/13 22:45	0.67	2,943,573	2.85	1,032,833	3.03	3.04	6 hr	CloudBurst
CSO108	12/5/13 8:00	12/5/13 8:00	0.00	2,017	0.72	2,802	0.14	0.23	48 hr	CloudBurst
CSO108	12/21/13 14:15	12/24/13 10:30	2.84	5,674,587	2.85	1,991,083	2.94	1.39	24 hr	CloudBurst
CSO110	10/5/13 12:45	10/7/13 0:15	1.48	8,035,269	4.79	1,677,509	5.03	14.00	24 hr	CloudBurst
CSO110	10/30/13 2:30	10/30/13 5:45	0.14	1,542,294	1.97	782,890	1.93	1.39	1 hr	CloudBurst
CSO110	10/31/13 20:45	10/31/13 23:30	0.11	521,550	0.58	899,225	2.55	0.23	12 hr	CloudBurst
CSO110	11/17/13 5:45	11/18/13 0:15	0.77	1,212,391	2.49	486,904	2.64	1.81	6 hr	CloudBurst
CSO110	12/5/13 7:30	12/5/13 10:15	0.11	315,643	0.69	457,454	0.19	0.22	48 hr	CloudBurst
CSO110	12/6/13 12:15	12/6/13 13:30	0.05	37,677	0.69	54,605	0.42	0.22	48 hr	CloudBurst
CSO110	12/14/13 7:45	12/14/13 13:00	0.22	662,763	0.97	683,260	1.31	0.42	6 hr	CloudBurst
CSO110	12/21/13 5:30	12/22/13 19:00	1.56	5,022,904	2.47	2,033,564	3.10	0.93	24 hr	CloudBurst
CSO110	12/29/13 3:00	12/29/13 7:30	0.19	184,164	0.56	328,865	0.54	0.25	12 hr	CloudBurst
CSO111	10/4/13 19:00	10/4/13 19:00	0.00	7,061	0.17	41,537	0.24	0.15	1 hr	CloudBurst
CSO111	10/5/13 12:45	10/5/13 23:30	0.45	385,877	4.79	80,559	3.68	14.00	24 hr	CloudBurst
CSO111	10/30/13 3:00	10/30/13 6:30	0.15	571,328	1.97	290,014	1.96	1.39	1 hr	CloudBurst
CSO111	10/31/13 20:45	10/31/13 22:15	0.06	23,443	0.58	40,419	2.42	0.23	12 hr	CloudBurst
CSO111	11/17/13 5:45	11/17/13 19:45	0.58	1,447,672	2.49	581,395	2.64	1.81	6 hr	CloudBurst
CSO111	12/5/13 7:15	12/5/13 8:30	0.05	135,410	0.69	196,246	0.16	0.22	48 hr	CloudBurst
CSO111	12/14/13 10:45	12/14/13 11:15	0.02	41,654	0.97		1.31	0.42	6 hr	CloudBurst
CSO111	12/21/13 5:45	12/21/13 12:45	0.29	119,497	2.47	48,379	1.41	0.93	24 hr	CloudBurst
CSO111	12/21/13 21:30	12/23/13 0:30	1.13	6,124,246	2.47	2,479,452	2.60	0.93	24 hr	CloudBurst
CSO113	10/4/13 19:15	10/4/13 19:15	0.00	1,065	0.1	10,651	0.17	0.09	1 hr	CloudBurst
CSO113	10/5/13 13:00	10/6/13 10:15	0.89	1,247,001	4.59	271,678	4.70	11.17	24 hr	CloudBurst
CSO113	10/30/13 3:00	10/30/13 6:15	0.14	182,653	1.48	123,414	1.47	0.77	1 hr	CloudBurst
CSO113	10/31/13 21:00	10/31/13 21:30	0.02	5,681	0.59	9,628	1.98	0.23	24 hr	CloudBurst
CSO113	11/17/13 5:45	11/17/13 20:00	0.59	691,931	2.53	273,491	2.69	1.64	6 hr	CloudBurst
CSO113	12/5/13 5:45	12/5/13 8:30	0.11	12,002	0.72	16,669	0.15	0.23	48 hr	CloudBurst
CSO113	12/14/13 10:45	12/14/13 11:00	0.01	4,788	0.85	5,633	1.14	0.36	6 hr	CloudBurst
CSO113	12/21/13 8:15	12/21/13 12:45	0.19	50,459	2.4	21,024	1.17	0.91	24 hr	CloudBurst
CSO113	12/21/13 21:30	12/22/13 2:15	0.20	360,083	2.4	150,035	2.41	0.91	24 hr	CloudBurst
CSO117	10/4/13 19:45	10/4/13 19:45	0.00	4,554	0.08	56,921	0.14	0.07	1 hr	CloudBurst
CSO117	10/5/13 13:00	10/6/13 14:45	1.07	16,623,828		3,958,054	4.29	7.34	24 hr	CloudBurst
CSO117	10/30/13 2:00	10/30/13 7:45	0.24	2,999,943	1.5	1,999,962	1.50	0.75	6 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO117	10/31/13 19:45	10/31/13 22:15	0.10	523,484	0.68	769,829	2.13	0.27	12 hr	CloudBurst
CSO117	11/17/13 5:45	11/17/13 19:30	0.57	4,116,702	2.16	1,905,881	2.31	0.93	6 hr	CloudBurst
CSO117	12/5/13 5:45	12/5/13 9:00	0.14	736,451	0.82	898,111	0.19	0.27	48 hr	CloudBurst
CSO117	12/6/13 12:15	12/6/13 12:30	0.01	1,383	0.82	1,687	0.48	0.27	48 hr	CloudBurst
CSO117	12/14/13 9:15	12/14/13 12:15	0.13	487,771	0.83	587,676	1.27	0.34	12 hr	CloudBurst
CSO117	12/21/13 5:45	12/21/13 13:30	0.32	2,307,674	1.01	2,284,825	1.49	0.47	12 hr	CloudBurst
CSO117	12/21/13 21:45	12/22/13 4:00	0.26	3,859,119	1.56	2,473,795	2.64	0.83	6 hr	CloudBurst
CSO117	12/29/13 6:30	12/29/13 7:15	0.03	106,964	0.5	213,929	0.42	0.22	12 hr	CloudBurst
CSO118	10/5/13 12:00	10/6/13 8:45	0.86	17,192,432	4.28	4,016,923	4.33	7.90	24 hr	CloudBurst
CSO118	10/17/13 9:45	10/17/13 9:45	0.00	68	0.02	3,423	0.03	0.01	48 hr	CloudBurst
CSO118	10/19/13 7:15	10/19/13 7:15	0.00	140	0.19	736	0.09	0.10	6 hr	CloudBurst
CSO118	10/30/13 1:00	10/30/13 7:00	0.25	2,741,785	1.3	2,109,065	1.30	0.64	6 hr	CloudBurst
CSO118	10/31/13 11:30	10/31/13 22:45	0.47	622,197	0.6	1,036,995	1.90	0.23	24 hr	CloudBurst
CSO118	11/6/13 18:30	11/6/13 21:00	0.10	241	0.21	1,146	0.75	0.09	12 hr	CloudBurst
CSO118	11/17/13 5:15	11/17/13 19:45	0.60	11,008,726	2.68	4,107,734	2.87	1.89	6 hr	CloudBurst
CSO118	11/21/13 19:00	11/21/13 19:15	0.01	65	0.12	543	2.92	0.09	1 hr	CloudBurst
CSO118	12/5/13 5:15	12/5/13 18:00	0.53	834,825	0.78	1,070,289	0.29	0.25	48 hr	CloudBurst
CSO118	12/6/13 2:15	12/6/13 11:30	0.39	916	0.78	1,174	0.45	0.25	48 hr	CloudBurst
CSO118	12/14/13 3:45	12/14/13 14:45	0.46	273,123	0.81	337,189	1.11	0.34	12 hr	CloudBurst
CSO118	12/21/13 1:45	12/21/13 13:00	0.47	2,311,520	2.57	899,424	1.78	0.96	24 hr	CloudBurst
CSO118	12/21/13 21:15	12/22/13 6:00	0.36	7,168,716	2.57	2,789,384	2.66	0.96	24 hr	CloudBurst
CSO118	12/29/13 0:15	12/29/13 10:00	0.41	45,588	0.51	89,389	0.75	0.22	12 hr	CloudBurst
CSO120	10/5/13 12:45	10/6/13 9:15	0.85	1,179,266	4.21	280,111	4.28	7.58	24 hr	CloudBurst
CSO120	10/30/13 1:15	10/30/13 5:30	0.18	315,508	1.35	233,710	1.27	0.67	6 hr	CloudBurst
CSO120	10/31/13 20:45	10/31/13 20:45	0.00	23,277	0.65	35,810	1.90	0.25	24 hr	CloudBurst
CSO120	11/17/13 5:15	11/17/13 19:00	0.57	1,082,472	2.23	485,413	2.36	0.94	6 hr	CloudBurst
CSO120	12/5/13 5:15	12/5/13 8:00	0.11	135,641	0.81	167,458	0.21	0.26	48 hr	CloudBurst
CSO120	12/14/13 10:30	12/14/13 10:30	0.00	13,266	0.77	17,229	1.10	0.31	12 hr	CloudBurst
CSO120	12/21/13 7:30	12/21/13 12:00	0.19	160,314	1.07	149,827	1.35	0.50	12 hr	CloudBurst
CSO120	12/21/13 21:15	12/22/13 2:30	0.22	563,038	1.67	337,149	2.74	0.90	6 hr	CloudBurst
CSO121	10/5/13 13:00	10/6/13 10:00	0.88	4,094,136	4.21	972,479	4.28	7.58	24 hr	CloudBurst
CSO121	10/30/13 2:15	10/30/13 5:45	0.15	55,083	1.35	40,803	1.31	0.67	6 hr	CloudBurst
CSO121	10/31/13 18:45	10/31/13 21:00	0.09	36,795	0.65	56,607	1.91	0.25	24 hr	CloudBurst
CSO121	11/17/13 5:30	11/17/13 19:15	0.57	222,661	2.23	99,848	2.36	0.94	6 hr	CloudBurst
CSO121	12/5/13 5:15	12/5/13 7:45	0.10	38,536	0.81	47,576	0.20	0.26	48 hr	CloudBurst
CSO121	12/14/13 10:30	12/14/13 10:30	0.00	402	0.77	523	1.10	0.31	12 hr	CloudBurst
CSO121	12/21/13 7:45	12/21/13 10:00	0.09	29,190	1.07	27,281	1.12	0.50	12 hr	CloudBurst
CSO121	12/21/13 21:30	12/22/13 0:45	0.14	1,037,371	1.67	621,180	2.64	0.90	6 hr	CloudBurst
CSO125	10/5/13 13:15	10/6/13 17:00	1.16	28,511,456	5.16	5,525,476	5.14	16.83	24 hr	CloudBurst
CSO125	10/30/13 2:15	10/30/13 5:30	0.14	21,257	1.04	20,439	0.98	0.49	6 hr	CloudBurst
CSO125	11/17/13 6:15	11/17/13 21:30	0.64	2,882,715	2.54	1,134,927	2.70	1.94	6 hr	CloudBurst
CSO125	12/5/13 5:45	12/5/13 8:00	0.09	60,999			0.25	0.26		CloudBurst

CS0125 12201/13.000 12701/31245 0.28 463.045 9.67 161.103 1.41 1.007 24.1m Chundh IS0125 1102/113.010 112/213.915 0.49 17.23 0.45 15.45 0.02 21.75 0.02 11.74 0.03 1.243 10.6 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.04 0.05 0.04 0.05 0.01 0.04 <	CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CS0125 12/21/12/12 12/22/13/21 12/2/13/21 <th< td=""><td>CSO125</td><td>12/14/13 10:45</td><td>12/14/13 11:15</td><td>0.02</td><td>48,627</td><td>0.98</td><td>49,619</td><td>1.02</td><td>0.42</td><td>6 hr</td><td>CloudBurst</td></th<>	CSO125	12/14/13 10:45	12/14/13 11:15	0.02	48,627	0.98	49,619	1.02	0.42	6 hr	CloudBurst
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$,				CloudBurst
CS0126 103/20139 00 102/0319 00 102/0319 00 12/24 1.04 1.243 1.06 0.479 6.477 Coulds CS0126 11/1/13100 11/1/03100 11/1/03100 0.00 1.924 0.868 3.377 1.62 0.23 1.06 0.477 0.02 1.02 1.02 1.04 6.477 0.02 1.02 1.04 6.477 0.02 1.02 1.04 6.047 0.02 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 Coulds 1.02 1.04 1.02 1.04 1.04 0.04 1.04 0.04 1.04 0.04 1.04 1.04 0.04 1.04 1.04 0.04 1.04 1.04 1.04 1.04 1.04											CloudBurst
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CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO137	11/17/13 5:45	11/17/13 7:15	0.06	108,704	2.64	41,176	1.66	2.29	6 hr	CloudBurst
CSO140	10/5/13 13:00	10/6/13 16:45	1.16	3,307,335	4.3	769,148	4.38	8.06	24 hr	CloudBurst
CSO140	10/30/13 2:15	10/30/13 5:30	0.14	86,267	1.24	69,570	1.15	0.59	6 hr	CloudBurst
CSO140	10/31/13 20:45	10/31/13 20:45	0.00	6,342	0.66	9,610	1.76	0.26	24 hr	CloudBurst
CSO140	11/17/13 5:30	11/18/13 6:00	1.02	3,579,174	2.65	1,350,632	2.79	1.81	6 hr	CloudBurst
CSO140	12/5/13 6:45	12/5/13 7:30	0.03	29,609	0.8	37,012	0.21	0.26	48 hr	CloudBurst
CSO140	12/14/13 10:30	12/14/13 10:30	0.00	1,703	0.79	2,156	0.98	0.33	6 hr	CloudBurst
CSO140	12/21/13 8:00	12/22/13 10:45	1.11	2,684,682	1.01	2,658,101	2.93	0.47	12 hr	CloudBurst
CSO141	10/4/13 19:00	10/4/13 19:15	0.01	1,828	0.04	45,705	0.12	0.03	3 hr	CloudBurst
CSO141	10/5/13 12:15	10/6/13 18:45	1.27	543,286	4.21	129,047	4.33	7.58	24 hr	CloudBurst
CSO141	10/17/13 9:45	10/17/13 10:00	0.01	245	0.02	12,260	0.04	0.02	1 hr	CloudBurst
CSO141	10/19/13 7:15	10/19/13 11:00	0.16	21,464	0.19	112,970	0.23	0.10	6 hr	CloudBurst
CSO141	10/29/13 21:15	10/30/13 7:30	0.43	80,734	1.35	59,803	1.36	0.67	6 hr	CloudBurst
CSO141	10/31/13 11:45	10/31/13 23:00	0.47	64,703	0.65	99,544	2.00	0.25	24 hr	CloudBurst
CSO141	11/6/13 18:45	11/7/13 1:30	0.28	15,470	0.21	73,665	0.94	0.10	12 hr	CloudBurst
CSO141	11/15/13 18:15	11/15/13 18:45	0.02	2,682	0.1	26,822	0.13	0.08	1 hr	CloudBurst
CSO141	11/17/13 4:15	11/17/13 9:45	0.23	66,499	2.23	29,820	1.90	0.94	6 hr	CloudBurst
CSO141	11/17/13 18:00	11/17/13 19:00	0.04	11,943	2.23	5,356	2.36	0.94	6 hr	CloudBurst
CSO141	12/5/13 5:00	12/6/13 14:30	1.40	147,699	0.81	182,345	0.61	0.26	48 hr	CloudBurst
CSO141	12/14/13 4:00	12/14/13 20:00	0.67	198,076	0.77	257,242	1.11	0.31	12 hr	CloudBurst
CSO141	12/21/13 2:00	12/21/13 13:00	0.46	90,442	1.07	84,525	1.83	0.50	12 hr	CloudBurst
CSO141	12/21/13 21:30	12/22/13 7:30	0.42	94,637	1.67	56,669	2.83	0.90	6 hr	CloudBurst
CSO141	12/29/13 1:45	12/29/13 10:15	0.35	2,818	0.5	5,636	0.63	0.22	12 hr	CloudBurst
CSO144	10/5/13 14:00	10/6/13 13:15	0.97	32,416	4.39	7,384	4.39	7.74	24 hr	CloudBurst
CSO144	11/7/13 2:15	11/7/13 5:30	0.14	16	0.22	71	0.88	0.10	12 hr	CloudBurst
CSO144	11/17/13 5:30	11/17/13 8:15	0.11	491	2.61	188	2.09	1.89	6 hr	CloudBurst
CSO144	11/17/13 17:45	11/17/13 19:00	0.05	1,474	2.61	565	2.74	1.89	6 hr	CloudBurst
CSO144	12/21/13 21:45	12/21/13 22:45	0.04	3,039			2.11	0.97		CloudBurst
CSO146	10/4/13 19:15	10/4/13 19:30	0.01	222,011	0.12	1,850,093	0.19	0.10	1 hr	CloudBurst
CSO146	10/5/13 13:00	10/6/13 0:00	0.46	10,218,914	4.4	2,322,480	3.44	9.19	24 hr	CloudBurst
CSO146	10/30/13 1:30	10/30/13 7:30	0.25	2,131,714	1.69	1,261,369	1.69	0.93		CloudBurst
CSO146	10/31/13 20:15	10/31/13 22:30	0.09	217,691	0.62	351,115	2.27	0.24	24 hr	CloudBurst
CSO146	11/17/13 5:30	11/17/13 20:30	0.63	2,365,730	2.68	882,735	2.86	1.89	6 hr	CloudBurst
CSO146	12/5/13 5:30	12/5/13 8:45	0.14	235,434	0.76	309,781	0.17	0.25	48 hr	CloudBurst
CSO146	12/6/13 4:15	12/6/13 12:00	0.32	25,562	0.76	33,634	0.43	0.25	48 hr	CloudBurst
CSO146	12/14/13 8:45	12/14/13 11:45	0.13	268,034	0.86	311,668	1.28	0.34	12 hr	CloudBurst
CSO146	12/21/13 5:15	12/21/13 13:15	0.33	810,069	2.41	336,128	1.50	0.90	24 hr	CloudBurst
CSO146	12/21/13 21:30	12/22/13 6:15	0.36	3,600,501	2.41	1,493,984	2.50	0.90	24 hr	CloudBurst
CSO146	12/29/13 5:30	12/29/13 7:15	0.07	159,068	0.51	311,899	0.42	0.22	12 hr	CloudBurst
CSO148	10/4/13 18:45	10/4/13 19:00	0.01	12,412	0.15	82,748	0.23	0.13	1 hr	CloudBurst
CSO148	10/5/13 12:15	10/6/13 17:45	1.23	626,582	5.83	107,475	6.06	36.33	24 hr	CloudBurst
CSO148	10/19/13 9:30	10/19/13 9:30	0.00	200	0.23	869	0.18	0.12	6 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO148	10/30/13 1:15	10/30/13 7:00	0.24	193,549	1.96	98,749	1.96	1.57	1 hr	CloudBurst
CSO148	10/31/13 20:15	10/31/13 22:00	0.07	7,982	0.59	13,528	2.46	0.23	24 hr	CloudBurst
CSO148	11/15/13 18:15	11/15/13 18:15	0.00	996	0.09	11,069	0.16	0.07	1 hr	CloudBurst
CSO148	11/17/13 4:45	11/17/13 19:00	0.59	657,787	2.64	249,162	2.81	2.29	6 hr	CloudBurst
CSO148	12/5/13 5:15	12/5/13 9:45	0.19	34,166	0.7	48,808	0.18	0.23	48 hr	CloudBurst
CSO148	12/6/13 3:30	12/6/13 11:15	0.32	235	0.7	336	0.38	0.23	48 hr	CloudBurst
CSO148	12/14/13 8:30	12/14/13 11:00	0.10	13,482	1.09	12,369	1.29	0.49	6 hr	CloudBurst
CSO148	12/21/13 5:00	12/21/13 12:15	0.30	93,965	2.81	33,440	1.66	1.30	3 hr	Atlas14
CSO148	12/21/13 21:00	12/22/13 1:15	0.18	292,530	2.81	104,103	2.80	1.30	3 hr	Atlas14
CSO148	12/29/13 4:45	12/29/13 6:15	0.06	2,160	0.58	3,724	0.50	0.26	12 hr	CloudBurst
CSO149	10/4/13 19:15	10/6/13 14:45	1.81	21,152,863	0.12	176,273,856	4.55	0.10	1 hr	CloudBurst
CSO149	10/15/13 16:45	10/15/13 22:45	0.25	32	0.02	1,592	0.02	0.02	1 hr	CloudBurst
CSO149	10/30/13 1:30	10/30/13 6:30	0.21	5,175,012	1.69	3,062,137	1.69	0.93	1 hr	CloudBurst
CSO149	10/31/13 19:30	10/31/13 21:45	0.09	239,388	0.62	386,110	2.25	0.24	24 hr	CloudBurst
CSO149	11/17/13 5:15	11/17/13 19:45	0.60	3,860,835	2.68	1,440,610	2.86	1.89	6 hr	CloudBurst
CSO149	12/5/13 5:30	12/5/13 8:30	0.13	489,918	0.76	644,628	0.17	0.25	48 hr	CloudBurst
CSO149	12/14/13 9:00	12/14/13 11:30	0.10	150,728	0.86	175,265	1.28	0.34	12 hr	CloudBurst
CSO149	12/21/13 5:30	12/21/13 12:45	0.30	1,339,852	2.41	555,955	1.47	0.90	24 hr	CloudBurst
CSO149	12/21/13 21:30	12/22/13 3:15	0.24	5,419,940	2.41	2,248,938	2.47	0.90	24 hr	CloudBurst
CSO149	12/29/13 6:15	12/29/13 6:30	0.01	2,949	0.51	5,783	0.41	0.22	12 hr	CloudBurst
CSO150	10/5/13 14:00	10/6/13 9:00	0.79	526,642	4.23	124,502	4.38	7.98	24 hr	CloudBurst
CSO150	10/30/13 5:30	10/30/13 6:00	0.02	33,641	1.06	31,736	1.03	0.50	6 hr	CloudBurst
CSO150	10/31/13 19:15	10/31/13 19:15	0.00	132	0.71	186	1.69	0.28	24 hr	CloudBurst
CSO150	11/17/13 6:30	11/17/13 10:45	0.18	292,827	2.59	113,061	2.30	1.61	6 hr	CloudBurst
CSO150	12/21/13 12:15	12/21/13 12:30	0.01	6,748	2.75	2,454	1.18	1.08	24 hr	CloudBurst
CSO150	12/21/13 21:45	12/22/13 0:45	0.13	227,144	2.75	82,598	2.62	1.08	24 hr	CloudBurst
CSO151	10/4/13 19:00	10/4/13 20:00	0.04	38,141	0.06	635,686	0.11	0.05	1 hr	CloudBurst
CSO151	10/5/13 12:30	10/7/13 21:00	2.35	5,093,322	3.89		4.00	4.84		CloudBurst
CSO151	10/19/13 9:45	10/19/13 11:15	0.06	16,309	0.19	85,837	0.23	0.10	6 hr	CloudBurst
CSO151	10/29/13 21:45	10/30/13 9:30	0.49	615,320	1.27	484,504	1.27	0.64	6 hr	CloudBurst
CSO151	10/31/13 15:45	11/1/13 0:00	0.34	255,709	0.5	511,418	1.77	0.19	24 hr	CloudBurst
CSO151	11/6/13 19:15	11/6/13 23:00	0.16	15,166	0.19	79,824	0.76	0.08	12 hr	CloudBurst
CSO151	11/15/13 18:30	11/15/13 19:00	0.02	12,665	0.1	126,649	0.17	0.09	1 hr	CloudBurst
CSO151	11/17/13 5:00	11/18/13 22:30	1.73	1,455,009	2.56	568,363		1.92	6 hr	CloudBurst
CSO151	11/21/13 19:30	11/21/13 20:15	0.03	6,265	0.09	69,614	2.75	0.07	1 hr	CloudBurst
CSO151	12/5/13 5:30	12/5/13 12:30	0.29	177,107	0.69	256,677	0.21	0.22	48 hr	CloudBurst
CSO151	12/6/13 3:00	12/6/13 15:00	0.50	173,121	0.69	250,900	0.52	0.22	48 hr	CloudBurst
CSO151	12/14/13 4:30	12/14/13 19:15	0.61	297,778	0.93	320,191	1.11	0.41	6 hr	CloudBurst
CSO151	12/21/13 4:00	12/24/13 16:45	3.53	1,856,469	2.64	703,208	3.50	1.00	24 hr	CloudBurst
CSO151	12/29/13 2:00	12/29/13 13:00	0.46	238,560	0.56	426,001	0.72	0.25	12 hr	CloudBurst
CSO152	10/4/13 19:15	10/4/13 19:45	0.02	15,979		159,789	0.17	0.09	1 hr	CloudBurst
CSO152	10/5/13 12:45	10/6/13 18:30	1.24	4,186,248	4.59	912,037	4.76	11.17	24 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO152	10/30/13 1:45	10/30/13 7:30	0.24	624,959	1.48	422,270	1.48	0.77	1 hr	CloudBurst
CSO152	10/31/13 20:00	10/31/13 22:45	0.11	164,169	0.59	278,253	2.06	0.23	24 hr	CloudBurst
CSO152	11/15/13 18:45	11/15/13 18:45	0.00	5,702	0.11	51,835	0.16	0.10	1 hr	CloudBurst
CSO152	11/17/13 5:15	11/17/13 20:30	0.64	785,780	2.53	310,585	2.69	1.64	6 hr	CloudBurst
CSO152	12/5/13 5:45	12/5/13 10:45	0.21	168,223	0.72	233,643	0.21	0.23	48 hr	CloudBurst
CSO152	12/6/13 4:00	12/6/13 13:00	0.38	33,009	0.72	45,846	0.42	0.23	48 hr	CloudBurst
CSO152	12/14/13 7:30	12/14/13 12:15	0.20	230,137	0.85	270,750	1.14	0.36	6 hr	CloudBurst
CSO152	12/21/13 5:30	12/22/13 6:15	1.03	1,964,344	2.4	818,477	2.96	0.91	24 hr	CloudBurst
CSO152	12/29/13 3:00	12/29/13 7:15	0.18	119,501	0.51	234,316	0.48	0.22	12 hr	CloudBurst
CSO153	10/5/13 12:45	10/6/13 6:15	0.73	2,631,275	4.21	625,006	3.67	7.58	24 hr	CloudBurst
CSO153	10/30/13 1:00	10/30/13 6:30	0.23	474,857	1.35	351,746	1.34	0.67	6 hr	CloudBurst
CSO153	10/31/13 19:15	10/31/13 21:45	0.10	136,245	0.65	209,607	1.95	0.25	24 hr	CloudBurst
CSO153	11/17/13 4:30	11/17/13 9:15	0.20	1,684,443	2.23	755,356	1.86	0.94	6 hr	CloudBurst
CSO153	11/17/13 17:30	11/17/13 18:45	0.05	494,785	2.23	221,877	2.29	0.94	6 hr	CloudBurst
CSO153	12/5/13 5:00	12/5/13 8:00	0.13	123,173	0.81	152,065	0.21	0.26	48 hr	CloudBurst
CSO153	12/14/13 8:45	12/14/13 11:15	0.10	95,403	0.77	123,900	1.11	0.31	12 hr	CloudBurst
CSO153	12/21/13 5:15	12/21/13 12:45	0.31	439,067	1.07	410,343	1.57	0.50	12 hr	CloudBurst
CSO153	12/21/13 21:30	12/22/13 0:00	0.10	712,985	1.67	426,937	2.53	0.90	6 hr	CloudBurst
CSO153	12/29/13 6:00	12/29/13 7:15	0.05	63,658	0.5	127,315	0.42	0.22	12 hr	CloudBurst
CSO154	10/5/13 13:45	10/6/13 6:00	0.68	2,135,538	4.4	485,349	3.50	8.39	24 hr	CloudBurst
CSO154	10/30/13 5:15	10/30/13 5:30	0.01	7,620	1.04	7,327	0.94	0.49	6 hr	CloudBurst
CSO154	11/17/13 6:30	11/17/13 9:15	0.11	820,452	2.78	295,127	2.36	2.00	6 hr	CloudBurst
CSO154	11/17/13 18:00	11/17/13 23:00	0.21	1,444	2.78	519	2.94	2.00	6 hr	CloudBurst
CSO154	12/21/13 8:00	12/21/13 12:30	0.19	20,439	1.03	19,844	1.33	0.48	12 hr	CloudBurst
CSO154	12/21/13 21:45	12/21/13 23:15	0.06	678,881	1.55	437,988	2.18	0.83	3 hr	Atlas14
CSO155	10/5/13 13:15	10/6/13 8:00	0.78	274,482	4.32	63,538	4.38	8.63	24 hr	CloudBurst
CSO155	10/30/13 1:00	10/30/13 5:15	0.18	30,629	1.27	24,117	1.18	0.61	6 hr	CloudBurst
CSO155	10/31/13 19:15	10/31/13 19:30	0.01	3,305		4,132	2.01	0.34	12 hr	CloudBurst
CSO155	11/17/13 4:00	11/17/13 9:15	0.22	85,630	2.95	29,027	2.31	2.00	6 hr	CloudBurst
CSO155	11/17/13 17:45	11/17/13 17:45	0.00	49	2.95		2.72	2.00	6 hr	CloudBurst
CSO155	12/5/13 7:00	12/5/13 7:15	0.01	4,690	0.79	5,936	0.18	0.26	48 hr	CloudBurst
CSO155	12/21/13 3:15	12/21/13 10:30	0.30	1,776	3.11	571	1.57	1.82	24 hr	CloudBurst
CSO155	12/21/13 21:00	12/21/13 23:45	0.11	111,575	3.11	35,876	2.82	1.82	24 hr	CloudBurst
CSO160	10/3/13 2:30	10/3/13 2:30	0.00	31	0.06	509	0.10	0.03	12 hr	CloudBurst
CSO160	10/4/13 19:00	10/4/13 19:00	0.00	22	0.05	433	0.15	0.04	1 hr	CloudBurst
CSO160	10/5/13 12:15	10/6/13 15:45	1.15	12,336	3.98	3,099	4.08	5.56	24 hr	CloudBurst
CSO160	10/17/13 9:30	10/17/13 9:30	0.00	95	0.02	4,749	0.03	0.02	1 hr	CloudBurst
CSO160	10/19/13 7:15	10/19/13 11:00	0.16	255	0.2	1,275	0.24	0.10	6 hr	CloudBurst
CSO160	10/29/13 21:00	10/30/13 7:00	0.42	7,222	1.42	5,086	1.42	0.70	6 hr	CloudBurst
CSO160	10/31/13 10:00	10/31/13 23:00	0.54	2,509	0.65	3,861	2.07	0.25	24 hr	CloudBurst
CSO160	11/6/13 13:30	11/7/13 6:30	0.71	4,945	0.23	21,501	0.92	0.10	12 hr	CloudBurst
CSO160	11/12/13 4:00	11/12/13 4:45	0.03	165	0.02	8,258	0.25	0.02	1 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO160	11/15/13 18:00	11/15/13 20:45	0.11	912	0.08	11,400	0.10	0.07	1 hr	CloudBurst
CSO160	11/17/13 2:45	11/17/13 19:30	0.70	14,460	2.35	6,153	2.45	1.08	6 hr	CloudBurst
CSO160	11/21/13 18:45	11/21/13 21:00	0.09	1,652	0.11	15,020	2.54	0.08	1 hr	CloudBurst
CSO160	12/5/13 5:00	12/6/13 14:00	1.38	14,612	0.81	18,039	0.54	0.26	48 hr	CloudBurst
CSO160	12/6/13 22:15	12/7/13 1:00	0.11	974	0.81	1,202	0.81	0.26	48 hr	CloudBurst
CSO160	12/13/13 19:45	12/14/13 14:45	0.79	4,849	0.82	5,913	1.33	0.33	12 hr	CloudBurst
CSO160	12/20/13 7:15	12/20/13 11:15	0.17	599	0.09	6,657	0.92	0.06	1 hr	CloudBurst
CSO160	12/21/13 1:45	12/22/13 5:45	1.17	35,638	2.97	11,999	3.79	1.55	24 hr	CloudBurst
CSO160	12/29/13 0:15	12/29/13 10:45	0.44	3,721	0.51	7,296	0.78	0.22	12 hr	CloudBurst
CSO161	10/5/13 13:45	10/5/13 23:15	0.40	25,418	3.98	6,386	2.73	5.56	24 hr	CloudBurst
CSO161	10/30/13 5:00	10/30/13 5:00	0.00	163	1.42	115	1.12	0.70	6 hr	CloudBurst
CSO161	10/31/13 19:00	10/31/13 19:00	0.00	2,683	0.65	4,127	1.87	0.25	24 hr	CloudBurst
CSO161	11/17/13 6:00	11/17/13 7:15	0.05	6,390	2.35	2,719	1.45	1.08	6 hr	CloudBurst
CSO161	12/21/13 21:30	12/21/13 22:15	0.03	7,868	2.97	2,649	2.33	1.55	24 hr	CloudBurst
CSO166	10/5/13 13:00	10/6/13 21:30	1.35	35,759,343	4.37	8,182,916	4.49	7.74	24 hr	CloudBurst
CSO166	10/30/13 2:30	10/30/13 6:30	0.17	511,871	0.91	562,496	0.91	0.43	6 hr	CloudBurst
CSO166	10/31/13 21:00	10/31/13 22:45	0.07	299,464	0.47	637,157	1.38	0.18	24 hr	CloudBurst
CSO166	11/17/13 6:00	11/18/13 0:30	0.77	6,209,321	2.71	2,291,262	2.88	2.52	6 hr	CloudBurst
CSO166	12/5/13 7:45	12/5/13 8:45	0.04	326,711	0.78	418,860	0.22	0.25	48 hr	CloudBurst
CSO166	12/14/13 10:45	12/14/13 11:45	0.04	360,959	1.04	347,076	1.09	0.46	6 hr	CloudBurst
CSO166	12/21/13 6:00	12/22/13 20:45	1.61	12,097,869	2.81	4,305,291	3.32	1.30	3 hr	Atlas14
CSO167	10/5/13 13:00	10/6/13 18:45	1.24	2,306,056	4.4	524,104	4.49	8.39	24 hr	CloudBurst
CSO167	10/30/13 1:45	10/30/13 7:15	0.23	208,417	1.04	200,401	1.04	0.49	6 hr	CloudBurst
CSO167	10/31/13 20:45	10/31/13 21:45	0.04	39,653	0.61	65,006	1.58	0.24	24 hr	CloudBurst
CSO167	11/17/13 5:00	11/17/13 21:45	0.70	1,611,542	2.78	579,691	2.94	2.00	6 hr	CloudBurst
CSO167	12/5/13 5:45	12/5/13 8:30	0.11	135,041	0.72	187,557	0.14	0.23	48 hr	CloudBurst
CSO167	12/13/13 8:00	12/13/13 9:45	0.07	44,646	DWO	(5.050	0.58	0.00	101	
CSO167	12/14/13 9:15	12/14/13 11:45	0.10	54,656			1.02	0.33		CloudBurst
CSO167	12/21/13 5:45	12/21/13 13:15	0.31	376,883	1.03	365,906	1.49	0.48	12 hr	CloudBurst
CSO167	12/21/13 21:30	12/22/13 12:00	0.60	1,016,726	1.55	655,952	2.66	0.83	3 hr	Atlas14
CSO167	12/29/13 6:15	12/29/13 7:00	0.03	7,604	0.49	15,519	0.43	0.22		CloudBurst
CSO174	10/30/13 5:00	10/30/13 6:00	0.04	864,688	1.69	511,650	1.68	0.93	1 hr	CloudBurst
CSO174	11/17/13 6:00	11/17/13 19:30	0.56	1,466,174	2.68	547,080	2.86	1.89		CloudBurst
CSO174	12/5/13 7:30	12/5/13 7:45	0.01	70,655	0.76	92,967	0.16	0.25	48 hr	CloudBurst
CSO174	12/21/13 8:30	12/21/13 12:00	0.15	33,768	2.41	14,012	1.20	0.90	24 hr	CloudBurst
CSO174	12/21/13 21:30	12/22/13 0:45	0.14	1,432,745	2.41	594,500	2.32	0.90	24 hr	CloudBurst
CSO179	10/5/13 21:00	10/6/13 10:30	0.56	844,233	4.4	191,871	4.55	9.19	24 hr	CloudBurst
CSO179	12/21/13 22:30	12/21/13 22:45	0.01	46,087	2.41	19,123	1.98	0.90	24 hr	CloudBurst
CSO180	10/5/13 13:00	10/6/13 6:15	0.72	674,472	4.4	153,289	3.96	9.19	24 hr	CloudBurst
CSO180	10/30/13 4:45	10/30/13 5:15	0.02	262,895	1.69	155,559	1.62	0.93	1 hr	CloudBurst
CSO180	11/17/13 7:30	11/17/13 7:30	0.00	20,435	2.68	7,625	1.80	1.89		CloudBurst
CSO180	12/21/13 21:45	12/21/13 22:45	0.04	286,246	2.41	118,774	1.98	0.90	24 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO181	10/5/13 13:00	10/6/13 6:30	0.73	341,341	4.1	83,254	3.67	6.53	24 hr	CloudBurst
CSO181	10/19/13 9:45	10/19/13 19:30	0.41	3,283	0.2	16,415	0.24	0.10	6 hr	CloudBurst
CSO181	10/30/13 3:30	10/30/13 7:15	0.16	73,373	1.51	48,591	1.51	0.75	6 hr	CloudBurst
CSO181	11/7/13 5:30	11/7/13 12:45	0.30	20,413	0.19	107,437	0.97	0.08	12 hr	CloudBurst
CSO181	11/17/13 6:30	11/17/13 8:15	0.07	8,310	2.16	3,847	1.67	0.94	6 hr	CloudBurst
CSO181	11/17/13 18:00	11/17/13 18:00	0.00	9,740	2.16	4,509	2.28	0.94	6 hr	CloudBurst
CSO181	12/21/13 22:00	12/21/13 23:00	0.04	60,031	2.56	23,450	2.15	0.97	24 hr	CloudBurst
CSO182	10/4/13 19:15	10/4/13 19:30	0.01	5,877	0.21	27,984	0.28	0.18	1 hr	CloudBurst
CSO182	10/5/13 15:00	10/6/13 18:30	1.15	864,668	4.49	192,576	4.77	9.84	24 hr	CloudBurst
CSO182	10/19/13 10:00	10/19/13 11:15	0.05	93,150	0.2	465,752	0.24	0.11	6 hr	CloudBurst
CSO182	10/30/13 1:30	10/30/13 7:45	0.26	309,745	2.05	151,095	2.06	1.78	1 hr	CloudBurst
CSO182	10/31/13 20:15	10/31/13 22:45	0.10	104,201	0.59	176,613	2.64	0.23	24 hr	CloudBurst
CSO182	11/15/13 18:45	11/16/13 5:15	0.44	76,031	0.11	691,192	0.14	0.09	1 hr	CloudBurst
CSO182	11/17/13 5:15	11/17/13 22:00	0.70	95,745	2.7	35,461	2.84	2.00	6 hr	CloudBurst
CSO182	12/5/13 5:45	12/5/13 11:30	0.24	21,562	0.72	29,947	0.23	0.23	48 hr	CloudBurst
CSO182	12/6/13 4:00	12/6/13 12:00	0.33	19,421	0.72	26,974	0.41	0.23	48 hr	CloudBurst
CSO182	12/14/13 4:30	12/14/13 12:00	0.31	70,674	0.93	75,994	1.35	0.37	12 hr	CloudBurst
CSO182	12/21/13 5:15	12/21/13 13:15	0.33	72,158	0.85	84,892	1.44	0.39	12 hr	CloudBurst
CSO182	12/22/13 1:15	12/22/13 8:15	0.29	152,178	1.69	90,046	2.64	0.93	3 hr	CloudBurst
CSO182	12/29/13 2:30	12/29/13 7:15	0.20	56,247	0.51	110,288	0.54	0.22	12 hr	CloudBurst
CSO183	10/5/13 20:45	10/5/13 21:15	0.02	489	4.72	104	2.35	13.17	24 hr	CloudBurst
CSO183	11/17/13 18:00	11/17/13 18:00	0.00	1,124	2.85	394	2.92	3.10	6 hr	CloudBurst
CSO183	12/21/13 18:00	12/21/13 22:45	0.20	9,122	0.77	11,847	2.04	0.36	12 hr	CloudBurst
CSO184	10/4/13 19:00	10/4/13 19:00	0.00	2,737	0.2	13,685	0.30	0.17	1 hr	CloudBurst
CSO184	10/5/13 12:45	10/6/13 6:30	0.74	513,674	4.72	108,829	4.35	13.17	24 hr	CloudBurst
CSO184	10/30/13 5:00	10/30/13 5:45	0.03	117,897	1.68	70,177	1.65	0.88	6 hr	CloudBurst
CSO184	11/17/13 7:00	11/17/13 8:45	0.07	34,285	2.85	12,030	2.33	3.10	6 hr	CloudBurst
CSO184	11/17/13 18:15	11/17/13 18:15	0.00	8,103		-	2.92	3.10	6 hr	CloudBurst
CSO184	12/6/13 2:30	12/8/13 10:15	2.32	1,045,920		1,323,949		0.26	48 hr	CloudBurst
CSO184	12/9/13 8:45	12/9/13 19:30	0.45	76,542	0.19	402851.4416	0.94	0.17	1 hr	CloudBurst
CSO184	12/21/13 22:45	12/21/13 22:45	0.00	24,317	1.67	14,561	2.04	0.92	3 hr	Atlas14
CSO185	10/4/13 19:00	10/4/13 19:00	0.00	11,479		57,395	0.30	0.17	1 hr	CloudBurst
CSO185	10/5/13 12:45	10/6/13 8:30	0.82	1,429,432	4.72	302,846	4.91	13.17	24 hr	CloudBurst
CSO185	10/30/13 5:00	10/30/13 5:45	0.03	239,811	1.68	142,745	1.65	0.88	6 hr	CloudBurst
CSO185	10/31/13 23:00	11/1/13 15:30	0.69	288,301	0.68	423,972	2.36	0.27	12 hr	CloudBurst
CSO185	11/7/13 0:15	11/8/13 16:15	1.67	307,124	0.21	1,462,497	0.91	0.08	24 hr	CloudBurst
CSO185	11/17/13 6:15	11/17/13 9:30	0.14	290,853	2.85	102,054	2.49	3.10	6 hr	CloudBurst
CSO185	11/17/13 18:15	11/17/13 18:30	0.01	103,138		36,189	2.92	3.10	6 hr	CloudBurst
CSO185	12/21/13 22:00	12/21/13 23:00	0.04	139,030	1.67	83,252	2.06	0.92	3 hr	Atlas14
CSO188	10/5/13 23:00	10/5/13 23:00	0.00	19,027	4.4	4,324	3.09	9.19	24 hr	CloudBurst
CSO189	10/5/13 13:15	10/6/13 10:15	0.88	45,462,979		10,850,353	4.44	7.10	24 hr	CloudBurst
CSO189	10/30/13 2:15	10/30/13 7:15	0.21	9,062,123	1.7	5,330,661	1.70	0.85	6 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO189	10/31/13 19:00	10/31/13 21:30	0.10	6,605,187	1.1	6,004,716	2.73	0.50	1 hr	CloudBurst
CSO189	11/17/13 5:15	11/17/13 20:30	0.64	27,845,423	2.72	10,237,288	2.87	2.87	6 hr	CloudBurst
CSO189	12/5/13 7:30	12/5/13 8:45	0.05	801,080	0.72	1,112,611	0.16	0.23	48 hr	CloudBurst
CSO189	12/14/13 10:45	12/14/13 12:00	0.05	436,372	0.72	606,072	1.07	0.29	12 hr	CloudBurst
CSO189	12/21/13 2:15	12/22/13 8:00	1.24	29,733,021	3.31	8,982,786	4.02	2.24	24 hr	CloudBurst
CSO190	10/30/13 1:00	10/30/13 11:00	0.42	963,003	1.27	758,270	1.27	0.61	6 hr	CloudBurst
CSO190	10/31/13 18:30	10/31/13 21:15	0.11	635,954	0.8	794,943	2.02	0.34	12 hr	CloudBurst
CSO190	11/15/13 18:00	11/15/13 18:00	0.00	33	0.1	333	0.13	0.08	1 hr	CloudBurst
CSO190	11/17/13 4:00	11/18/13 2:00	0.92	3,870,643	2.95	1,312,082	3.09	2.00	6 hr	CloudBurst
CSO190	12/5/13 5:30	12/5/13 12:00	0.27	305,258	0.79	386,402	0.26	0.26	48 hr	CloudBurst
CSO190	12/6/13 3:45	12/6/13 3:45	0.00	1,494	0.79	1,891	0.37	0.26	48 hr	CloudBurst
CSO190	12/14/13 9:00	12/14/13 21:30	0.52	70,490	0.67	105,208	1.06	0.27	12 hr	CloudBurst
CSO190	12/21/13 2:00	12/21/13 12:45	0.45	591,807	3.11	190,292	1.73	1.82	24 hr	CloudBurst
CSO190	12/21/13 21:00	12/22/13 2:45	0.24	2,894,746	3.11	930,786	3.14	1.82	24 hr	CloudBurst
CSO190	12/29/13 5:00	12/29/13 8:45	0.16	422	0.5	844	0.43	0.22	12 hr	CloudBurst
CSO191	10/5/13 13:00	10/6/13 9:00	0.83	12,414,003	4.54	2,734,362	4.73	10.17	24 hr	CloudBurst
CSO191	10/30/13 4:45	10/30/13 6:00	0.05	1,057,999	1.32	801,514	1.32	0.67	6 hr	CloudBurst
CSO191	10/31/13 19:15	10/31/13 20:00	0.03	539,169	0.88	612,692	2.10	0.36	12 hr	CloudBurst
CSO191	11/17/13 5:30	11/17/13 18:15	0.53	4,897,714	2.65	1,848,194	2.81	2.12	6 hr	CloudBurst
CSO191	12/5/13 7:30	12/5/13 7:30	0.00	15,637	0.77	20,308	0.15	0.25	48 hr	CloudBurst
CSO191	12/21/13 7:45	12/21/13 12:30	0.20	99,847	1.37	72,881	1.71	0.63	12 hr	CloudBurst
CSO191	12/21/13 21:30	12/22/13 1:30	0.17	4,773,334	1.65	2,892,930	3.03	0.91	3 hr	Atlas14
CSO193	10/5/13 14:00	10/6/13 6:15	0.68	116,692	3.21	36,353	2.79	2.28	24 hr	CloudBurst
CSO193	10/30/13 4:45	10/30/13 5:30	0.03	24,532	1.41	17,399	1.35	0.72	1 hr	CloudBurst
CSO193	11/17/13 5:45	11/17/13 8:45	0.13	43,346	2.38	18,213	1.95	1.11	6 hr	CloudBurst
CSO193	11/17/13 18:00	11/17/13 18:00	0.00	6,324	2.38	2,657	2.52	1.11	6 hr	CloudBurst
CSO193	12/21/13 22:00	12/21/13 22:45	0.03	66,232	1.77	37,419	2.46	0.96	6 hr	CloudBurst
CSO196	10/5/13 13:15	10/6/13 8:45	0.81	307,694	4.2	73,261	4.29	7.26	24 hr	CloudBurst
CSO196	10/30/13 4:45	10/30/13 5:45	0.04	76,170	1.96	38,862	1.94	1.30	1 hr	CloudBurst
CSO196	10/31/13 19:30	10/31/13 21:00	0.06	3,582	0.71	5,045	2.56	0.28	24 hr	CloudBurst
CSO196	11/17/13 7:45	11/17/13 8:15	0.02	6,422	2.32	2,768	1.77	1.06	6 hr	CloudBurst
CSO196	12/21/13 22:15	12/22/13 0:15	0.08	43,987	1.37	32,108	2.18	0.74	6 hr	CloudBurst
CSO199	10/5/13 13:15	10/6/13 6:30	0.72	106,546	4.2	25,368	3.68	7.26	24 hr	CloudBurst
CSO199	10/30/13 4:45	10/30/13 5:30	0.03	32,015	1.96	16,334	1.92	1.30	1 hr	CloudBurst
CSO199	11/12/13 1:30	11/12/13 1:30	0.00	11,423	0.04	285,582	0.23	0.02	24 hr	CloudBurst
CSO199	11/17/13 5:45	11/17/13 9:15	0.15	34,115	2.32	14,705	1.98	1.06	6 hr	CloudBurst
CSO199	11/17/13 18:00	11/17/13 18:15	0.01	8,778	2.32	3,784	2.45	1.06	6 hr	CloudBurst
CSO199	12/5/13 7:30	12/5/13 7:30	0.00	452	0.75	603	0.18	0.24	48 hr	CloudBurst
CSO199	12/21/13 21:30	12/21/13 23:00	0.06	48,237	1.37	35,210	1.99	0.74	6 hr	CloudBurst
CSO200	10/5/13 13:00	10/6/13 8:00	0.79	159,489	4.2	37,974	4.12	7.26	24 hr	CloudBurst
CSO200	11/17/13 5:45	11/17/13 9:30	0.16	31,107	2.32	13,408	2.01	1.06	6 hr	CloudBurst
CSO200	11/17/13 17:45	11/17/13 18:00	0.01	8,127	2.32			1.06	6 hr	CloudBurst

CSO	Overflow Start Date-Time	Overflow End Date-Time	Overflow Duration (Days)	Total Volume (Gallons)	Overflow Event Rain Total (Inch)	Overflow Volume per Inch	Overflow Antecedent Rain	Storm Frequency (Years)	Period	Standard
CSO200	12/21/13 8:00	12/21/13 8:00	0.00	235	0.92	255	0.77	0.43	12 hr	CloudBurst
CSO200	12/21/13 21:15	12/22/13 0:00	0.11	109,490	1.37	79,919	2.15	0.74	6 hr	CloudBurst
CSO202	10/5/13 13:15	10/6/13 6:15	0.71	85,284	4.2	20,306	3.64	7.26	24 hr	CloudBurst
CSO202	10/30/13 4:45	10/30/13 5:30	0.03	22,605	1.96	11,533	1.92	1.30	1 hr	CloudBurst
CSO202	11/17/13 6:00	11/17/13 8:15	0.09	15,300	2.32	6,595	1.77	1.06	6 hr	CloudBurst
CSO202	11/17/13 18:00	11/17/13 18:00	0.00	5,488	2.32	2,365	2.45	1.06	6 hr	CloudBurst
CSO202	12/21/13 21:30	12/21/13 22:45	0.05	47,479	1.37	34,656	1.98	0.74	6 hr	CloudBurst
CSO203	10/5/13 14:15	10/6/13 6:30	0.68	140,676	4.2	33,494	3.68	7.26	24 hr	CloudBurst
CSO203	10/30/13 4:45	10/30/13 8:00	0.14	88,478	1.96	45,142	1.96	1.30	1 hr	CloudBurst
CSO203	11/17/13 18:00	11/17/13 18:00	0.00	8,993	2.32	3,876	2.45	1.06	6 hr	CloudBurst
CSO203	12/21/13 22:00	12/21/13 22:45	0.03	50,568	1.37	36,911	1.98	0.74	6 hr	CloudBurst
CSO205	10/5/13 20:45	10/5/13 23:45	0.13	2,747	4.49	612	3.49	9.84	24 hr	CloudBurst
CSO205	10/30/13 5:15	10/30/13 5:15	0.00	136	2.05	67	1.98	1.78	1 hr	CloudBurst
CSO205	11/17/13 7:45	11/17/13 18:00	0.43	2,619	2.7	970	2.82	2.00	6 hr	CloudBurst
CSO206	12/5/13 7:00	12/6/13 14:15	1.30	906,893	0.71	1,277,314	0.46	0.23	48 hr	CloudBurst
CSO206	12/14/13 4:15	12/14/13 15:00	0.45	1,523,870	0.94	1,621,139	0.98	0.41	12 hr	CloudBurst
CSO206	12/21/13 4:15	12/22/13 21:00	1.70	11,648,683	2.69	4,330,366	3.41	1.02	24 hr	CloudBurst
CSO206	12/29/13 1:45	12/29/13 11:00	0.39	821,953	0.54	1,522,135	0.71	0.24	12 hr	CloudBurst
CSO208	10/5/13 12:00	10/6/13 15:15	1.14	265,416	3.72	71,349	3.86	4.40	24 hr	CloudBurst
CSO208	10/17/13 15:45	10/17/13 15:45	0.00	836	0.03	27,870	0.06	0.03	1 hr	CloudBurst
CSO208	10/19/13 7:00	10/19/13 9:30	0.10	315	0.2	1,573	0.21	0.10	6 hr	CloudBurst
CSO208	10/29/13 21:00	10/30/13 5:45	0.36	48,233	1.41	34,208	1.39	0.70	6 hr	CloudBurst
CSO208	10/31/13 11:30	10/31/13 20:30	0.38	39,407	0.65	60,627	2.01	0.26	12 hr	CloudBurst
CSO208	11/6/13 18:45	11/7/13 0:45	0.25	3,284	0.25	13,137	0.92	0.11	12 hr	CloudBurst
CSO208	11/17/13 4:00	11/17/13 17:45	0.57	91,850	2.67	34,401	2.58	1.61	6 hr	CloudBurst
CSO208	11/21/13 19:00	11/21/13 19:00	0.00	129	0.12	1,076	2.87	0.09	1 hr	CloudBurst
CSO208	12/5/13 5:00	12/6/13 13:30	1.35	9,144	0.82	11,152	0.51	0.27	48 hr	CloudBurst
CSO208	12/14/13 3:45	12/14/13 11:30	0.32	13,539			1.04	0.26		CloudBurst
CSO208 CSO208	12/20/13 7:15	12/20/13 11:00	0.16	253	0.11	2,298	0.77	0.06	6 hr	CloudBurst
	12/21/13 1:45 12/21/13 21:00	12/21/13 12:15 12/22/13 3:00	0.44	10,211 102,816	<u> </u>	3,171 31,930	1.84 3.31	2.16 2.16	24 hr 24 hr	CloudBurst CloudBurst
CSO208 CSO208	12/21/13/21:00	12/22/13 3:00	0.23	2,513		4,928	0.60	0.22	12 hr	CloudBurst
CSO208	12/29/13 1.43	12/29/13 9.45	0.33	3,238,802	4.5	719,734	4.73	9.84	24 hr	CloudBurst
CSO210	10/30/13 2:30	10/30/13 9:00	0.90	920,938		626,488	4.73	9.84		CloudBurst
CSO210 CSO210	10/30/13 2:30	10/30/13 9:00	0.27	920,938	0.95	179,441	2.42	0.75	12 hr	CloudBurst
CSO210 CSO210	11/17/13 5:15	10/31/13 23:15	0.19	2,669,115	2.84	939,829	3.01	2.12	6 hr	CloudBurst
CSO210	12/5/13 7:15	12/5/13 10:15	0.71	68,125	0.81	84,105	0.25	0.26	48 hr	CloudBurst
CSO210	12/3/13 7:13	12/3/13 10:13	0.13	141,146	0.74	190,738	0.25	0.20	12 hr	CloudBurst
CSO210 CSO210	12/14/13 10:13	12/14/13 13:30	0.14	2,146,823		672,985	3.58	1.90	24 hr	CloudBurst
CSO210 CSO211	10/5/13 13:15	10/6/13 10:15	0.99	55,458,962	4.5	12,324,214	4.73	9.84	24 m 24 hr	CloudBurst
CSO211	10/30/13 3:45	10/30/13 8:00	0.88	36,961,147	1.47	25,143,638	1.47	9.84	6 hr	CloudBurst
CSO211	10/30/13 3:43	11/1/13 3:45	0.18	2,525,313			2.42	0.75		CloudBurst
630211	10/31/13 19:15	11/1/13 3:43	0.55	2,020,010	0.93	2,000,224	۷.4۷	0.30	12111	CIOUUDUISI