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July 30, 2012

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 27 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 April 1, 2012 – June 30, 2012. 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,

W. G=

Brian Bingham. Regulatory Services Director

Q26 Certification KDEP 1-30-12 cc: Greg C. Heitzman

Paula Purifoy



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

Chief, Environmental Enforcement Section Environmental and Natural Resources Division U.S. Department of Justice Post Office Box 7611 Washington DC 20044-7611 Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #27



Reporting Period: April 1, 2012 through June 30, 2012

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:

July 30, 2012



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ATTACHMENTS

APPENDIX A-1 DISCHARGE WORK ORDERS-DRY WEATHER CSOS APPENDIX A-2 DISCHARGE WORK ORDERS-BYPASS APPENDIX A-3 DISCHARGE WORK ORDERS-BLENDING APPENDIX B-CSO FLOW MONITORING DATA APPENDIX C-ACRONYMS





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 twenty-seventh Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from April 1, 2012, through June 30, 2012. 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 (April 1, 2012, through June 30, 2012).

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 (April 1, 2012, through June 30, 2012).

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 (April 1, 2012, through June 30, 2012), and the anticipated projects and activities that are scheduled to be performed during the next two reporting periods (July 1, 2012, through December 31, 2012), 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 (April 1, 2012, through June 30, 2012).

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 (April 1, 2012, through June 30, 2012), and include the schedule for activities planned for the next two reporting periods (July 1, 2012, through December 31, 2012), 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 216.6 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.

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, secondary treatment flow, and 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.

Primary sedimentation basin preventive maintenance reported on in previous quarterly report has been completed, and all sedimentation basins were in service for the entire quarter. Intermittent problems with bar screens in both the East and West Headworks occurred, resulting in short-term minor impacts on overall capacity. During most rain events the plant was able to process in excess of 300 MGD before localized CSOs occurred. The on-going evaluation of headworks performance and reliability is expected to recommend replacement of the West Headworks bar screens, and either rebuilding or replacement of the East Headworks bar screens to deal with these recurring maintenance issues.















































Work continued on an evaluation of the primary sedimentation basin sludge and scum pumping systems, and the East and West Headworks screening and grit removal systems. It is not anticipated that these evaluations will require any significant equipment down-time. If repair or replacement activities are recommended as a result of the evaluations they will be scheduled in accordance with plant maintenance priorities.

There were no KPDES permit violations at Morris Forman WQTC during April, May, or June, 2012.

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

- <u>Main Diversion Structure Flow Measurement</u> Continued to monitor measurement accuracy over several storms and prepared a summary of flow measurement over the quarter indicating good accuracy during high flows (when it is most critical) but underreporting flow during low flows. During the next reporting period a revised "parking" elevation for Sluice Gate 1 will be evaluated to see if a lower gate setting can improve flow measurement at low flows without compromising the ability to maximize capture of initial flow peaks. It is anticipated that Sluice Gate 1 will be incorporated into an automatic flow control system linked to the Southwestern Pump Station as part of the Paddy's Run Wet Weather Treatment Facility project currently scheduled for completion in 2014.
- <u>Wet Weather Operational Plan</u> Continued training on the new SOPs, which are expected to be completed and fully implemented in the next reporting period. The stress test report evaluating the impact of hydraulic loading, solids loading, and sludge blanket depth on secondary clarifier performance was finalized. During the reporting period the Morris Forman WQTC Capacity Calculator will be modified to begin full-scale evaluation of using 160 MGD as the peak flow capacity of the secondary clarifiers as a result of this testing.
- <u>RTC System-Wide Optimization Project</u> Issued final report in June. Some minor revisions will be made in the RTC design standards over the next reporting period. It is anticipated that the design standards will be a "living document" subject to periodic revisions as needed. Conducted MSD staff training on use of the CSOFT program used as the basis for the RTC optimization. Kicked off an RTC implementation effort to start integrating the Northern Ditch Diversion into the RTC system, and changing control algorithms for the Southeast Diversion Structure.







Real Time Control Operations Detailed Report

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



	Wet	Weather Event		R	ainfall				Wet Weather St	orage Volu	ime (MG)			High	
Event Number	Start Date	End Date	Duration	Average* TRFD (in)	M TRFD (in)	ax** Rain Gauge	SWPS SG Chamber	SWOR2	Brady Lake and Executive Inn Storage	Southern Outfall	Ohio River Interceptor	Sneads Branch	Total	River Levels	
2012-023	04/01/2012 07:25	04/02/2012 17:40	34:15	1.40	1.83	TR15	13.1	0.6	4.2	4.2	4.2	1.3	27.5	no	SWOR2 manually controlled wit
2012-030	04/28/2012 19:55	04/29/2012 18:00	22:05	0.67	1.03	TR15	14.3	0.0	2.2	4.5	3.9	1.3	26.2	no	SWOR2 manually controlled with
2012-031	04/30/2012 15:50	05/02/2012 18:50	51:00	0.57	0.97	TR05	11.5	0.0	1.1	3.8	2.9	0.5	19.7	no	SWOR2 manually controlled wit
2012-032	05/04/2012 16:50	05/08/2012 13:25	44:35	1.45	2.11	TR14	16.3	0.0	4.6	4.8	3.8	1.3	30.8	no	SWOR2 manually controlled with
2012-034	05/12/2012 21:45	05/15/2012 21:40	71:55	2.24	2.67	TR14	18.3	0.0	8.0	4.3	4.1	2.2	36.9	no	SWOR2 manually controlled with
2012-038	05/29/2012 06:55	05/30/2012 23:05	40:10	2.64	3.58	TR12	14.6	0.0	8.8	4.7	4.2	1.6	33.9	no	SWOR2 manually controlled wit manually controlled; ***
2012-039	05/31/2012 18:50	06/02/2012 18:00	47:10	1.43	1.64	TR11	15.0	0.0	6.5	6.6	5.5	1.6	35.2	no	SWOR2 manually controlled wit occuring at MDS during rainfall
2012-043	06/17/2012 12:10	06/17/2012 23:15	11:05	0.16	0.44	TR15	4.9	0.0	0.4	0.1	1.1	0.0	6.4	no	SWOR2 manually controlled with
TOTAL							108.0	0.6	35.7	32.9	29.7	9.8	216.6		

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

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

*** A flow meter and level sensor were damaged during the period. The site was in manual mode to prevent flooding. Replacement equipment has been ordered.

1



Project WIN Quarterly Report #27 April 1, 2012 – June 30, 2012



Comments

ith gates in open position and minimal available storage utilization; ***

gates in open position and minimal available storage utilization; ***

th gates in open position and minimal available storage utilization; ***

gates in open position and minimal available storage utilization; ***

th gates in open position and minimal available storage utilization; ***

gates in open position and minimal available storage utilization; Many sites

ith gates in open position and minimal available storage utilization; Some dewatering event; ***

gates in open position and minimal available storage utilization; ***



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>. The following activities were performed during this reporting period.

2.2 Overflow Management and Field Documentation

 Monitored approximately 158 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 87 unauthorized discharges. Inspection routes were run during rain events as described in the following table:

Route Description	4/1/2012	5/5/2012	5/13/2012	5/29/2012
Engineering Rain Event SSO Inspection Route	×	x	x	x
RS Hikes Point SSO Inspection Route	x		x	x
RS Jeffersontown Siphon Inspection Route	x		x	x
RS Jeffersontown/Fern Creek SSO Inspection Route	×		x	x
RS Middle/Muddy Fork SSO Inspection Route	x		X	X

• Due to Capacity related issues, during this reporting period, MSD Metro Operations staff hauled 719,802 gallons of sewage. MSD also hauled due to other issues as indicated in the following table:





	MSD Hauled Volume	es In Gallons (April 1, 2	012 - June 30, 2012)	
Problem	April	May	June	Total
CAPACITY	76,000	582,802	61,000	719,802
ELECTRICAL			1,700	1,700
MECHANICAL	86,800	10,500		97,300
POWER		11,100		11,100
Total	162,800	604,402	62,700	829,902

2.3 Staff Training and Communication

- Reviewed and updated the training documentation for the 2012 second quarter SORP training that included Preparing, Monitoring and Response.
- Commenced planning for the 2012 third quarter SORP training that will focus on overflow cleanup.
- Conducted the following SORP Quarterly training sessions which were attended by 291 employees.

Staff Training Partici	ipation - April 1, 20)12 - June 30, 2012
Division	Date	Number of Attendees
I&FP Staff	6/1/2012	12
Morris Forman Staff	6/6/2012	22
Metro Operations Staff	6/6/2012	34
Morris Forman Staff	6/7/2012	6
Metro Operations Staff	6/7/2012	39
Morris Forman Staff	6/7/2012	21
Morris Forman Staff	6/8/2012	8
I&FP Staff	6/8/2012	20
Engineering/RS Staff	6/14/2012	33
Morris Forman Staff	6/27/2012	15
Morris Forman Staff	6/28/2012	8
Engineering/RS Staff	6/28/2012	53
Make-Up Session	7/1/2012	8
Make-Up Session	7/10/2012	12
Total		291





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.

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.







- Prospect WQTC Elimination Projects Easement Status A total of 49 easements have been identified which includes 17 easements in Norton Commons area; that are necessary to complete the entire suite of projects related to the plant eliminations.
- Acquired 24 of these easements. Three additional easements are in negotiation.

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.

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: <u>http://www.msdlouky.org/pdfs/Green_Infrastructure_Incentives_Savings_Weba.pdf</u>

Training sessions will be delivered in July and August 2012, outlining green infrastructure requirements going into effect on August 1, 2012, for new and redevelopment. These sessions will be held for internal staff, Developers, Engineers, and Contractors to outline requirements and review protocols.

A green infrastructure tracking mechanism in the HANSEN system was finalized in the reporting period. This mechanism will allow for scheduling of construction inspections and follow-up for correction of issues, and will establish the schedule for on-going long term inspections as required by the MS4 permit. During the next reporting period, training on this system for will be delivered, and the system will be utilized.





A listing of the MSD Board approved green infrastructure projects is included as **Appendix D** - **Green Project Performance**. This table shows the green projects that have been built by MSD, as well as the incentive projects. For each project, information on the impervious area captured, location, and calculations on the CSO peak flow reduction, and CSO volume reduction attributed to each individual project is provided. This table is based on a table top evaluation, and not modeling results. The performance of individual projects will be reviewed and adjusted based on the on-going work with EPA's Office of Research and Development. EPA ORD is working with MSD to determine the performance of various green controls, as well as the maintenance requirements and schedules associated with green BMPs. As more information is harvested and analyzed from these efforts, MSD will adjust the performance of controls and projects accordingly. A more elaborate modeled assessment of the green projects will be included in the Annual Report.

3.4 Activity Progress Chart

A Gantt chart showing the progress of the above activities performed during this reporting period, or planned activities for the next two periods is located at the end of this section. The chart is formatted to follow the outline of the project schedule in the IOAP (Refer to IOAP, Volume 1 – Figure 6.3.1).

Note that the schedule may show completion dates that are earlier than the dates contained in IOAP Volume 1 - Figure 6.3.1. These early completion dates represent targets for MSD's project management use, but do not represent a change in schedule commitments.

Also note that the schedule may show final completion dates that are later than the dates contained in IOAP Volume 1 – figure 6.3.1. This is because final completion of all work is typically not required for the project to meet its functional requirements for overflow elimination. For example, the DRG Wet Weather Treatment Facility has a completion date of December 31, 2011 in the ISSDP. This date was selected to enable the closure of the Southeast Diversion Structure constructed overflow. The amount of flow added to the DRG WQTC by closing the SED constructed overflow is a small fraction of the additional capacity being added by the overall DRG Wet Weather Treatment Facility project. In this case, MSD ensured that by December 31, 2011, facilities were completed to a point that the SED constructed overflow could be closed in accordance with the Amended Consent Decree without causing any treatment capacity related overflows in the system. This was accomplished, and the SED constructed overflow was eliminated before December 31, 2011. The schedule shows a completion date of October 31, 2012, for the DRG Wet Weather Treatment Facility which will provide adequate treatment capacity to accept the increased wet weather flows resulting from the elimination of pumped overflows in the Hikes Point area, scheduled to be taken off line by November 27, 2012. The dates in the approved IOAP, SSDP, ISSDP, and LTCP remain the committed dates for substantial completion of the suite of projects to a sufficient capacity to achieve the overflow reduction targets of the IOAP.





oject Number	Activity Name	At Completion Duration	Physical % Finish Complete	IOAP Finish Date	Mar	Apr	May	
ong Term Control Plan		1880	23-Aug-14	31-Dec-20				
Green Demonstration Projects		1310	31-Dec-13	31-Dec-20				
GREEN INFRASTRUCTURE PROGRAM		1310	31-Dec-13	31-Dec-20				
MULTIPLE	FY12 GREEN INFRASTRUCTURE PROJECTS - CONSTRUCTION	760	100% 30-Jun-12 A	31-Dec-20				
MULTIPLE	FY13 GREEN INFRASTRUCTURE PROJECTS - CONSTRUCTION	549	0% 31-Dec-13	31-Dec-20				
Gray Infrastructure Projects		1880	23-Aug-14	31-Dec-17				
ADAMS STREET STORAGE BASIN		731	31-Dec-12	31-Dec-12				
L_OR_MF_172_S_09B_B_A_0	ADAMS STREET STORAGE BASIN - DESIGN	546	100% 30-Jun-12 A	31-Dec-12				
L_OR_MF_172_S_09B_B_A_0	ADAMS STREET STORAGE BASIN - EASEMENT	90	100% 30-Jun-12 A	31-Dec-12				<u> </u>
L_OR_MF_172_S_098_8_4_0	ADAMS STREET STORAGE BASIN - AD DATE	1	0% 15-Aug-12	31-Dec-12				
L_OR_MF_172_S_098_8_A_0	ADAMS STREET STORAGE BASIN - BID OPEN	0	0% 07-Sep-12*	31-Dec-12				
L_OR_MF_172_S_09B_B_A_0	ADAMS STREET STORAGE BASIN - AWARD	0	0% 01-Oct-12"	31-Dec-12				
L_OR_MF_172_S_098_8_A_0	ADAMS STREET STORAGE BASIN - SUBSTANTIALLY COMPLETE	0	0% 31-Dec-12*	31-Dec-12				
L_OR_MF_172_S_098_8_A_0	ADAMS STREET STORAGE BASIN - CONSTRUCTION	91	0% 31-Dec-12	31-Dec-12				
BEARGRASS CREEK PARALLEL INTERCEPT	OR	729	03-Aug-14	31-Dec-17				
L_SO_MF_097_M_13_A_A_8	BEARGRASS CREEK PARALLEL INTERCEPTOR - DESIGN	729	0% 03-Aug-14	31-Dec-17				
CAVALRY - CREEKSIDE STORAGE BASIN		719	23-Aug-14	31-Dec-17				
L_SO_MF_097_M_098_B_D_8	CALVARY/CREEKSIDE STORAGE BASIN - DESIGN	719	0% 23-Aug-14	31-Dec-17				
CSO 123 DOWNSPOUT DISCONNECTION		914	30-Dec-12	31-Dec-13				
L_MI_MF_123_S_08_A_A_0	DOWNSPOUT DISCONNECT CSO 123 - DESIGN	914	30% 30-Dec-12	31-Dec-13			:	
CSO 058 SEWER SEPARATION		943	30-Jun-13	31-Dec-14				1
L OR MF 058 S 08 A A 0	CSO 58 SEWER SEPARATION - DESIGN	702	5% 01-Nov-12	31-Dec-14				
L OR MF 058 S 08 A A 0	CSO 58 SEWER SEPARATION - EASEMENT	331	0% 30-Jun-13	31-Dec-14				1
CSO 093 SEWER SEPARATION		777	30-Jul-13	31-Dec-15				i .
L SO MF 093 S 08 A A 0	CSO 93 SEWER SEPARATION - DESIGN	536	5% 01-Dec-12	31-Dec-15				-
L SO MF 093 S 08 A A 0	CSO 93 SEWER SEPARATION - EASEMENT	638	5% 30-Jul-13	31-Dec-15				
CSO 140 SEWER SEPARATION		551	31-Dec-12	31-Dec-15	-			
L MI MF 140 S 08 A A 0	CSO 140 SEWER SEPARATION - DESIGN	551	30% 31-Dec-12	31-Dec-15				<u> </u>
L MI MF 140 S 08 A A 0	CSO 140 SEWER SEPARATION - EASEMENT	426	30% 31-Dec-12	31-Dec-15			i	
CSO 160 SEWER SEPARATION		703	01-Jun-13	31-Dec-15				
L OR MF 160 S 08 A A 0	CSO 160 SEWER SEPARATION - DESIGN	521	20% 01-Dec-12	31-Dec-15				-
L OR MF 160 S 08 A A 0	CSO 160 SEWER SEPARATION - EASEMENT	244	0% 01-Jun-13	31-Dec-15				
CSO 206 SEWER SEPARATION		1644	30-Dec-13	30-Dec-13				
L MI MF 206 S 08 A A 0	CSO 206 SEWER SEPARATION - DESIGN	1089	90% 31-Jul-12	30-Dec-13	-			-
L MI MF 206 S 08 A A 0	CSO 206 SEWER SEPARATION - EASEMENT	288	90% 31-Jul-12	30-Dec-13			!	-
L MI MF 206 S 08 A A 0	CSO 208 SEWER SEPARATION - CONSTRUCTION	1644	50% 30-Dec-13	30-Dec-13			:	
1-64 AND GRINSTEAD DRIVE STORAGE B	ASIN	619	10-Jun-13	31-Dec-14				
L MI MF 127 M 098 B A 8	I-64 & GRINSTEAD STORAGE BASIN - DESIGN 30% COMPLETE	459	75% 01-Jan-13	31-Dec-14			I	-
L MI MF 127 M 098 B A 8	I-84 & GRINSTEAD STORAGE BASIN - EASEMENT	619	20% 10-Jun-13	31-Dec-14				0
LOGAN STREET AND BRECKENBIDGE ST	STORAGE BASIN	530	11-Dec-12	31-Dec-17				
L SO MF 092 M 09B B D 8	LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - EASEMENT	364	10% 28-Sep-12	31-Dec-17				
L SO ME 092 M 098 B D 8	LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - DESIGN	460	60% 02-Oct-12	31-Dec-17			1	
L SO ME 092 M 098 B D 8	LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - AD DATE	1	0% 30-Nov-12	31-Dec-17				
L SO ME 092 M 098 B D 8	LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - BID OPEN	0	0% 11-Dec-12	31-Dec-17				
NIGHTINGALE PLIMP STATION PEPLACEA	IFNT	719	24-Feb-14	31-Dec-16				
L SO ME 018 S 03 A A	NIGHTINGALE PUMP STATION REPLACEMENT - DESIGN	710	5% 24-Feb-14	31-Dec-16				-
PADDY'S RUN WET WEATHER TREATMEN	NT FACILITY	480	02-Feb-13	31-Dec-14				
THE STORE THE TWENTER TREATINES		2 (H) (H)		1021200000000			r	<u></u>







roject Number	Activity Name	At Completion	Physical % Finish	IOAP Finish			L	Т
L OR ME 015 M 13 B B 8	PADDV'S RUN WW TREATMENT FACILITY - DESIGN 30%	Duration	Complete 100% 00-Max 12 A	Date 31-Dec-14	Mar	Apr	May	÷
L OR ME 015 M 13 B B 8	PADDY'S RUN WW TREATMENT FACILITY - DESIGN 60%	336	0% 11-Sep-12	31-Dec-14				1
L OR MF 015 M 13 B B 8	PADDY'S RUN WW TREATMENT FACILITY - DESIGN 90%	480	0% 02-Feb-13	31-Dec-14			;	÷
STORY AVENUE AND MAIN STREET STO	RAGE RASIN	532	15-Jun-13	31-Dec-13			1	1
L OR MF 020 S 098 B A 8	STORY AVE & MAIN ST STORAGE BASIN- DESIGN	532	100% 15-Jun-13	31-Dec-13			:	+
L OR MF 020 S 098 B A 8	STORY AVE & MAIN ST STORAGE BASIN - EASEMENT	501	100% 15-Jun-13	31-Dec-13				÷
Flood Pump Station Projects		893	30-May-13	30-Jun-13				1
4TH STREET FLOOD PUMP STATION		548	31-Jul-12	31-Dec-12				ł
L OR MF 022 M 03 A A	4TH ST FPS DWO ELIMINATION - SUBST. COMPL	0	100% 15-Jun-12A	31-Dec-12	-			1
L OR MF 022 M 03 A A	4TH ST FPS DWO ELIMINATION - CD CERTIFY	0	100% 15-Jun-12A	31-Dec-12				1
L OR MF 022 M 03 A A	4TH ST FPS DWO ELIMINATION - CONSTRUCTION	546	99% 31-Jul-12	31-Dec-12				÷
L OR MF 022 M 03 A A	4TH ST FPS DWO ELIMINATION - AS-BUILTS	0	0% 31-Jul-12	31-Dec-12				1
27TH STREET FLOOD PUMP STATION		893	30-May-13	30-Jun-13				i
L OR MF 019 S 03 A A	27TH ST FPS DWO ELIMINATION - DESIGN	590	95% 31-Jul-12	30-Jun-13			-	÷
L OR MF 019 S 03 A A	27TH ST FPS DWO ELIMINATION - BID OPEN	0	0% 31-Aug-12*	30-Jun-13				1
L OR MF 019 S 03 A A	27TH ST FPS DWO ELIMINATION - AWARD	0	0% 09-Sep-12	30-Jun-13				i
L OR MF 019 S 03 A A	27TH ST FPS DWO ELIMINATION - CONSTRUCTION	242	0% 30-May-13	30-Jun-13				ł
34TH STREET FLOOD PUMP STATION		548	15-Aug-12	31-Dec-12				1
L OR MF 019 S 03 A B	34TH ST FPS DWO ELIMINATION - SUBST COMPL	0	100% 11-Jun-12 A	31-Dec-12				1
L OR MF 019 S 03 A B	34TH ST FPS DWO ELIMINATION - CD CERTIFY	0	100% 11-Jun-12 A	31-Dec-12				1
L OR MF 019 S 03 A B	34TH ST FPS DWO ELIMINATION - CONSTRUCTION	517	99% 15-Jul-12	31-Dec-12			i	1
L OR MF 019 S 03 A B	34TH ST FPS DWO ELIMINATION -AS-BUILTS	0	0% 15-Aug-12	31-Dec-12				T
SHAWNEE FLOOD PUMP STATION		834	01-Apr-13	30-Jun-13				1
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - DESIGN	590	95% 31-Jul-12	30-Jun-13			i	÷
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - AD DATE	1	0% 15-Aug-12	30-Jun-13				T
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - BID OPEN	0	0% 15-Sep-12"	30-Jun-13				1
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - AWARD	0	0% 15-Oct-12"	30-Jun-13				i
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - SITE VISITS, SURVEY, PERMITS	244	0% 01-Apr-13	30-Jun-13				i
L OR MF 189 M 03 A A	SHAWNEE FPS DWO ELIMINATION - CONSTRUCTION	168	0% 01-Apr-13	30-Jun-13				1
anitary Sewer Discharge Plan		1359	15-Jan-14	30-Dec-24				I
Floyds Fork Area		153	30-Nov-12	31-Dec-12				!
EDEN CARE PS SSO INVESTIGATION		153	30-Nov-12	31-Dec-12				1
S FF FF NB02 S 13 C	EDEN CARE PUMP STATION ILS - AD DATE	1	0% 15-Aug-12	31-Dec-12	4			I
S FF FF NB02 S 13 C	EDEN CARE PUMP STATION ILS - BID OPEN	0	0% 15-Sep-12"	31-Dec-12		1		1
S FF FF NB02 S 13 C	EDEN CARE PUMP STATION ILS - AWARD	0	0% 15-Oct-12"	31-Dec-12				ł
S FF FF NB02 S 13 C	EDEN CARE PUMP STATION ILS - SUBSTANTIALLY COMPLETE	D	0% 24-Oct-12*	31-Dec-12		1		i
S FF FF NB02 S 13 C	EDEN CARE PUMP STATION ILS - CONSTRUCTION	122	0% 30-Oct-12*	31-Dec-12		1	1	I
S_FF_FF_NB02_S_13_C	EDEN CARE PUMP STATION ILS - CD CERTIFICATION	0	0% 30-Nov-12	31-Dec-12		1		-
Jeffersontown Area		1295	15-Jan-14	31-Dec-15		1		1
BILLTOWN ROAD PS & FM		434	08-Sep-12	31-Dec-15	1	1		-
S_JT_JT_NB01_M_01_C_A	BILLTOWN ROAD P.S., F.M. & INT - SUBST. COMPLETE	0	0% 08-Jul-12*	31-Dec-15		1		1
S_JT_JT_NB01_M_01_C_A	BILLTOWN ROAD P.S., F.M., & INT - CONSTRUCTION	403	99% 06-Aug-12	31-Dec-15				-
S_JT_JT_NB01_M_01_C_A	BILLTOWN ROAD P.S., F.M., & INT - AS-BUILT PLANS	0	0% 06-Sep-12	31-Dec-15				1
CHENOWETH HILLS PS ELIMINATION		855	01-Nov-12	31-Dec-15				-
S IT IT NB01 M 01 C A	CHENOWETH RUN INTERCEPTOR SEC. 2 - EASEMENTS	429	60% 01-Sep-12	31-Dec-15			<u> </u>	\$
			and a second second second		1	1	:	÷.,
S_JT_JT_NB01_M_01_C_A	CHENOWETH RUN INTERCEPTOR SEC. 2 - DESIGN	824	95% 01-Oct-12	31-Dec-15			,	-







ACD Project Number Attomption Project Number Out Field Out Field Out Field 041000CTH HILLS WOTC ELMMANTON & FIELMANTON &			MSD Final Integrated Overflow Abate	ment Plan Im	plementation Schee	lule (01 Marc	h 2012	- 31 De	c 2012)
Outcome Duration	ACD	Project Number	Activity Name	At Completion	Physical % Finish	IOAP Finish			
ORXNOLT HILLS WORK CLAMMADINA & EMPROVIMENTS 746 5-6-6-13 S,T,T,T,NOT,M,Q,C CHEH HILLS WORT PELIMATION & PLAMP STATION ELIMANION - ADD 0 NS 494-12 310-6-15 S,T,T,T,NOT,M,Q,C CHEH HILLS WORT PELIMATION & PLAMP STATION ELIMANION - ADD 0 NS 494-12 310-6-15 S,T,T,Y,NOT,M,Q,C CHEH HILLS WORT PELIMATION & PLAMP STATION ELIMANION - ADD 0 NS 494-12 310-6-15 S,T,T,Y,NOT,M,Q,C CHEH HILLS WORT PELIMATION & PLAMP STATION ELIMANION - ADD 0 NS 494-13 310-6-15 S,T,T,Y,NOT,M,Q,C,A CHER HILLS WORT PELIMATION & PLAMP STATION ELIMANION - CORE 64 00-64-14 310-66-15 S,T,T,Y,NOT,M,Q,L,A JEFFERSONTOWN TPELIMANTON - PLAMP STATION ELIMANION - CORE 164 90-64-67 310-66-15 S,T,T,Y,NOT,M,Q,L,A JEFFERSONTOWN TPELIMANTON - PLAMP STATION ELIMANION - MODE 164 90-64-67 310-66-15 S,T,T,Y,NOT,M,D,L,A JEFFERSONTOWN TPELIMANTON - PLAMP STATION ELIMANTON - PLAMP STATION				Duration	Complete	Date	Mar	Apr	May
S_T_T_T_NOLA_0_C CHEHILLS WITP ELANITOR & PLAY STRONE ELANITOR & 20 (0) 1 04 20.4g (2) 31.0e-15 S_T_T_T_NOLA_0_C CHEHILLS WITP ELANITOR & PLAY STRONE ELANITOR & 20 (0) 0 64.5ep (2) 31.0e-15 S_T_T_T_NOLA_0_C CHEHILLS WITP ELANITOR & PLAY STRONE ELANITOR & 20 (0) 0 64.5ep (2) 31.0e-15 S_T_T_T_NOLA_0_C CHEHILLS WITP ELANITOR & PLAY STRONE ELANITOR & 20 (0) 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_C CHEHILLS WITP ELANITOR & PLAY STRONE ELANITOR & 20 (0) 0 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_C CHENITOR ELANITOR & PLAY STRONE ELANITOR & 20 (0) 0 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_C CHENITOR (CHENITOR 0 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_C CHENITOR (CHENITOR 0 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_0_C CHENITOR (CHENITOR 0 0 64.5ep (2) 31.0e-15 S_T_T_NOLA_0_0_C CHENITOR (CHENITOR 0 0 64.5ep (2) 31.0e-15 S_T_T_T_NOLA_0_0_C CHENITOR (CHENITOR		CHENOWETH HILLS WOTC ELIMINATION &	k PS IMPROVEMENTS	745	15-Jan-14	31-Dec-15		1	1
S_T_T_T_NOLA_NO_C CHEMILIS WITP ELIMINITON & PLAYE STRONE ELIMINITON - EASE 94 90% 01-69-12 31-09-15 S_T_T_T_NOLA_NO_C CHEMILIS WITP ELIMINITON & PLAYE STRONE ELIMINITON - MAYA 0 95.45-22 31-09-15 S_T_T_T_NOLA_NO_C CHEMILIS WITP ELIMINITON & PLAYE STRONE ELIMINITON - MAYA 0 95.45-22 31-09-15 S_T_T_T_NOLA_NO_C CHEMILIS WITP ELIMINITON & PLAYE STRONE ELIMINITON - MAYA 0 96.25-22 31-09-15 S_T_T_T_NOLA_NO_C CHEMILIS WITP ELIMINITON - BERNINTON - MAYA 164 00 31-09-15 S_T_T_T_NOLA_NO_C_A ORNO A/EFS-DESION 164 00 31-09-15 S_T_T_T_NOLA_NO_C_A JEFFERONTOWN TFELIMINITON - DESION 160 00 31-09-15 S_T_T_T_NOLA_NO_C_A JEFFERONTOWN TFELIMINITON - DESION 160 00 31-09-15 S_T_T_T_NOLA_NO_C_A JEFFERONTOWN TFELIMINITON - DESION 160 00 31-09-15 S_T_T_T_NOLA_NO_C_A JEFFERONTOWN TFELIMINITON< -DESION		S_JT_JT_NB01A_M_03_C	CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - AD D/	1	0% 20-Aug-12	31-Dec-15			1
S_T_T_T_NOLA_0_0_C CHEHILLS WITP ELIMINION & PLAYE STRICH ELIMINION - BUC 0 <		S_JT_JT_NB01A_M_03_C	CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - EASE	244	50% 01-Sep-12	31-Dec-15			1
S.,T.J.,NOLM, M.O., C. CHENNELS WATE PLANNARON & PLAY STATION BLANKTON - ADM 0 04: 30-66-12 31-66-15 JEFFECON FORCE MAIN 64 05: 40-14 31-66-15 31-66-15 JEFFECON FORCE MAIN 64 05: 40-14 31-66-15 31-66-15 JEFFECON FORCE MAIN 06: 40-02 31-66-15 31-66-15 31-66-15 JEFFECON FORCE MAIN 06: 40-02 31-66-15 31-66-15 31-66-15 JEJ, JET, NOL, MOJ, C.A. JEFFERONTOWN TPELAIMINGTON - DESIGN 70 50: 40-67 31-66-15 JEJ, JET, NOL, MOJ, C.A. JEFFERONTOWN TPELAIMINGTON - DESIGN 31-66-15 31-66-15 31-66-15 S, JEJ, JER, NOL, JO, L.A. JEFFERONTOWN TPELAIMINGTON - DESIGN 70 70 31-66-15 31-66-15 S, JEJ, JEJ, MOL, J.A. JEFFERONTOWN TREALINGTON - BASENETT 49 50: 40-67 31-66-15 31-66-15 31-66-15 S, JEJ, JEJ, MOL, JEJ, L.A. LUPER BLITOWN ROAD INTERCEPTOR- DESENT 70 70 31-66-15 31-66-15 31-66-15 31-66-15 31-66-15 31-66-15 31-66-15 31-66-15 31-66-15		S_JT_JT_NB01A_M_03_C	CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - BID C	0	0% 24-Sep-12	31-Dec-15			1
LT_T_NON_MOL_QU_C CHENNELS WATTE BLANKING & PURP STATION ELIMINATION - CON 428 00 HI 5-Lan-14 31-Dec-15 LT_T_NON_MOL_CA ORNO AKE PS - DESION 654 00-Lan-13 31-Dec-15 LT_T_NON_MOL_CA JEPERSONTOWN TPELAMINATION - DESION 754 500-BI-Lan-13 31-Dec-15 LT_T_NON_MOL_CA JEPERSONTOWN TPELAMINATION - DESION 753 500-BI-Lan-12 31-Dec-15 LT_T_NON_MOL_CA JEPERSONTOWN TPELAMINATION - DESION 753 500-BI-Lan-12 31-Dec-15 LT_T_NON_MOL_CA JEPERSONTOWN TPELAMINATION - DESION 751 50-Dec-15 31-Dec-15 LT_T_NON_MOL_CA JEPERSONTOWN TPELAMINATION - DESIGN 751 31-Dec-15 1 LUNDRE INTEGETOR MORTHAL DESIGN 721 31-Dec-15 1 1 LUNDRE INTEGETOR MORTHAL DESIGN 721 31-Dec-15 1 <td></td> <td>S_JT_JT_NB01A_M_03_C</td> <td>CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - AWAF</td> <td>0</td> <td>0% 23-Oct-12</td> <td>31-Dec-15</td> <td></td> <td></td> <td>1</td>		S_JT_JT_NB01A_M_03_C	CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - AWAF	0	0% 23-Oct-12	31-Dec-15			1
PERSON FORCE NAME 654 01-01-13 31-06-15 BT_T_NON_NON_LO_A JEPERSONTOWN TPELMINATION - DESIGN 104 30-06-15 J_T_T_NON_NON_LO_A JEPERSONTOWN TPELMINATION - DESIGN 701 505 (1-4a) 12 31-06-15 J_T_T_NON_NON_LO_A JEPERSONTOWN TPELMINATION - DESIGN 701 504 (2-6) 13 31-06-15 J_T_T_NON_NON_LO_A JEPERSONTOWN TPELMINATION - DESIGN 31-06-15 31-06-15 31-06-15 J_T_T_NON_NON_LO_A JEPERSONTOWN TPELMINATION - DESIGN 13 404 (204) 80-06-12 31-06-15 10-06-12 S_D_T_T_NON_NOL_A JEPERSONTOWN TREAMINATION - DESIGN 14 409 508 (1-60-12 31-06-15 VINER BLICTOWN ROAD INTERCEPTOR- DESIGN 14 409 508 (1-60-12 31-06-15 10-06-15 S_D_T_T_NON_NOL_A UPER BLICTOWN ROAD INTERCEPTOR-DESIGN 14 31-06-15 31-06-15 10-06-11 S_MAR_MOT_SOL_A UPER BLICTOWN ROAD INTERCEPTOR-DESIGN 14 31-06-13 31-06-13 31-06-13 S_MAR_MOT_SOL_A UPER BLICTOWN ROAD INTERCEPTOR-DESIGN 14 31-06-13 31-06-13 31-06-13 S_MAR_MOT_SOL_A UPER BLICTOWN ROAD INT		S_JT_JT_NB01A_M_03_C	CHEN HILLS WWTP ELIMINATION & PUMP STATION ELIMINATION - CONS	428	0% 15-Jan-14	31-Dec-15			
S,T,T,MOL,MO,LO,A OPAND AVEPS - DESIGN \$64 30% 01-Jan-13 31-Dan-16 S,T,T,MOL,MOL,C,A JEFERSONTOWN TPELMINATION - DESIGN 703 50% 10% - 20% 12 31-Dan-16 S,T,T,MOL,MOL,C,A JEFERSONTOWN TPELMINATION - DESIGN 703 60% 10% - 20% 12 31-Dan-16 S,T,T,MOL,MOL,C,A JEFERSONTOWN TPELMINATION - RASAMENTS 364 60% 30-Man-13 31-Dan-16 S,S,D,W,F,NOS,S,D,LB,A INCONCERTOR - EASEMENT 466 60% 40% 13 31-Dan-16 S,S,D,W,F,NOS,S,D,LB,A INCONCERTOR - EASEMENT 466 60% 31-Dan-16 1 S,S,D,W,F,NOS,S,D,LB,A INCONCERTOR - EASEMENT 606 50% 04-An-13 31-Dan-16 S,S,D,W,F,NOS,S,D,LB,A UPERE BLITOWN ROAD INTERCEPTOR - EASEMENT 600 50% 31-Dan-16 1 S,M,W,F,NOS,S,D,LB,A UPERE BLITOWN ROAD INTERCEPTOR - EASEMENT 600 60% 31-Dan-17 1 NUMERE BLINSTERMON & REFERENCE ON STRUCTOR 370 70% 70% 71 31-Dan-17 NUMERE BLITOWN ROAD INTERCEPTOR - EASEMENT 600 60% 37-Dan-17 31-Dan-17 NUMERE SUBJECTOR & REFERENCE ON STRUCTOR 370 70% 70% 71 31-Dan-17 NUMERE SUBJECTOR & REFERENCE O		JEFFERSON FORCE MAIN		854	01-Jan-13	31-Dec-15			1
IPPERSONTOWN WORK ELMINATION 1004 33 Aller 13 35 - 50 S_T_T_T_NON_UN_US_A JEFERSONTOWN TPELMINATION - DESION 763 60% 67-6912 31-06-15 S_T_T_T_NON_UN_US_A JEFERSONTOWN TPELMINATION - ADDITE 1 0% 67-6912 31-06-15 S_T_T_T_NON_UN_US_A JEFERSONTOWN TPELMINATION - ADDITE 1 0% 67-6912 31-06-15 KONDEK INTERCEPTOR 490 00% Arch3 31-06-15 31-06-16 UMER BLICOWN ROAD INTERCEPTOR - EASEMENT 490 60% 31-06-16 31-06-16 S_T_T_T_NON_UN_US_A UMER BLICOWN ROAD INTERCEPTOR-EASEMENT 600 60% 31-06-16 BARYTERS CYCAK MIDIAL FORMATION 200 07-M9-15 31-06-16 400 MARE APROX_UN_US_A ARDIT ARST ARST ARST ARST ARST ARST ARST ARS		S_JT_JT_NB01_M_01_C_A	GRAND AVE PS - DESIGN	854	30% 01-Jan-13	31-Dec-15			1
S, T, T, JRO, MU, D. C, A. JEFFERSONTOWN TPELININATION - DESION 783 609 01-Aug-12 31-De-15 S, T, T, JRO, MU, D. C, A. JEFFERSONTOWN TPELININATION - DATE 10 00 00-01-12 31-De-15 S, J, T, JRO, MU, D. C, A. JEFFERSONTOWN TPELININATION - ADSIMPTIST 340 605 30-De-15 S, O, JF, NOL, S, OL B, A. LANDRIKE INTERCEPTOR - EASEMENT 450 605 31-De-16 S, J, JF, NOL, M, OL C, A. LIPPER BLILTOWN ROAD INTERCEPTOR-EASEMENT 500 605 31-De-16 S, J, T, JROI, M, OL C, A. LIPPER BLILTOWN ROAD INTERCEPTOR-EASEMENT 500 074-My/33 31-De-16 Bargrass Orack MIddle Fork Area 503 074-My/33 31-De-16 10 MURT - BUCHELBANN 367 27-4w-12 31-De-11 10 MURT - BUCHELBANN 000 074-My/33 31-De-13 10 MURT - BUCHELBANN 001 074-Wy/33 31-De-13 10 MURT - BUCHELBANN 001 074-Wy/33 31-De-13 10 MURT - BUCHELBANN 001 001-DA-14 01-DA-14		JEFFERSONTOWN WQTC ELIMINATION		1004	30-Mar-13	31-Dec-15			1
S, JT, JT, JRO, MU, DU, C, A JEFFERSONTOWN TPELININATION - AD DATE 1 0.9 07-01-12 31-00-16 S, JT, JT, JRO, MU, DU, C, A JEFFERSONTOWN TPELININATION - ADDIME 34-0 0.54,er-13 31-00-16 NONDER INTERCEPTOR 490 0.54,er-13 31-00-16 31-00-16 MARK DATA DATA INTERCEPTOR 490 0.54,er-13 31-00-16 MARK DATA DATA INTERCEPTOR 490 0.54,er-13 31-00-16 S, JT, JT, JRO J, MU, D, C, A UPPER BLLTOWN ROAD INTERCEPTOR-EASEMENT 600 006,4h12 31-00-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h12 31-00-16 400-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h12 31-00-16 400-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h13 31-00-16 400-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h13 31-00-16 400-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h13 31-00-16 400-16 MARK DATA DATA INTERCEPTOR EASEMENT 600 076,4h13 31-00-16 400-16		S_JT_JT_NB01_M_01_C_A	JEFFERSONTOWN TP ELIMINATION - DESIGN	763	50% 01-Aug-12	31-Dec-15			1
S_T_T_NBC_UP_LOP_CA JEFFERSONTOWN TPELININATION - EASEMENTS 594 60% 30.Mar-13 31-De-15 KNONCK INTERCEPTOR 400 00.Apr-13 31-De-15 100 S_S_U_F_NOL_S_UT_A 400 00.Apr-13 31-De-15 100 S_S_U_F_NOL_S_UT_A 400 00.Apr-13 31-De-15 100 S_T_T_NED_MOL_C_A UPPER BILTOWN ROAD INTERCEPTOR-EASEMENT 600 31-De-16 100 Beargrass Orack Middle Fork Area 001 07.May-13 31-De-11 100 Beargrass Orack Middle Fork Area 001 07.May-13 31-De-11 100 MINSTROMME IN INVESTIGATION & REARINGTOON 100 0.00 0.00 100		S_JT_JT_NB01_M_01_C_A	JEFFERSONTOWN TPELIMINATION - AD DATE	1	0% 07-Oct-12	31-Dec-15			1
KLONDKE INTERCEPTOR 459 0.934pc+13 31-Dec-15 S, SU, P., NOL, S, OL, B.A. NUCHDIKE INTERCEPTOR - EASEMENT 915 31-Dec-15 410 UPER BILLTOWN NOAD INTERCEPTOR - EASEMENT 915 31-Dec-15 410 <td></td> <td>S_JT_JT_NB01_M_01_C_A</td> <td>JEFFERSONTOWN TP ELIMINATION - EASEMENTS</td> <td>364</td> <td>50% 30-Mar-13</td> <td>31-Dec-15</td> <td></td> <td></td> <td>,</td>		S_JT_JT_NB01_M_01_C_A	JEFFERSONTOWN TP ELIMINATION - EASEMENTS	364	50% 30-Mar-13	31-Dec-15			,
S, SD, MF, Nokl, SD, D, A. KLONDIKE INTERCEPTOR- EASEMENT 499 50% 63-April 3 31-Dee-16 UPER BLICTOW ROAD INTERCEPTOR- EASEMENT 991 31-Dee-16 10-Dee-15 S, JT_, JT, NOIL, M, DL, C, A. UPER BLICTOWN ROAD INTERCEPTOR- EASEMENT 500 50% 31-Dee-12 31-Dee-15 Beargrass Creek Middle Fork Area CC3 07-May13 31-Dee-16 10-Dee-15 Burgrass Creek Middle Fork Area CC3 07-May13 31-Dee-16 10-Dee-16 MUSTBOURNE BILMONTON REHABILITATION 397 27-No-12 31-Dee-16 10-Dee-17 MUSTBOURNE BILMONTON REHABILITATION 397 075 7-No-12 31-Dee-13 MUSTBOURNE BILMONTON REHABILITATION 402 07-May13 31-Dee-13 MUSTBOURNE BILMONTON REHABILITATION 402 07-May13 31-Dee-13 CHARLESWOOD INTERCEPTOR EXTENSION 402 07-May13 31-Dee-12 CHARLESWOOD INTERCEPTOR EXTENSION 405 23-Sp-31 31-Dee-12 CHARLESWOOD INTERCEPTOR EXTENSION 405 23-Sp-31 31-Dee-12 S, O, W, PCOM, MD, C, G LARTAR PLW PSTATION WET WEATHER ST		KLONDKE INTERCEPTOR		459	03-Apr-13	31-Dec-15			1
UPPER BILLTOWN ROAD INTERCEPTOR 915 31-Dec-12 31-Dec-15 S_T_T_T_NOI_N_D_L_C_A UPPER BILLTOWN ROAD INTERCEPTOR-DESIGN 702 694 31-Dec-15 Bargrass Creak Middle Fork Area 603 074Aby13 31-Dec-15 Bargrass Creak Middle Fork Area 603 074Aby13 31-Dec-16 S_M_MF_N807_S_07_C HURSTBOURNE BLINKEST & REHAB - WARRANTY 307 074Aby13 31-Dec-11 S_M_MF_N807_S_07_C HURSTBOURNE BLINKEST & REHAB - WARRANTY 307 064/21-Nev12 31-Dec-11 S_M_MF_N807_NO_L_OL_C_A BUECHEL SURGE BASN - CONSTRUCTION 402 074Aby13 31-Dec-13 S_M_MF_MR01_MOL_C_C_A BUECHEL SURGE BASN - CONSTRUCTION 402 074Aby13 31-Dec-13 CHARLESWOOD INTERCEPTOR EXTENSION 296 29-Acr13 31-Dec-22 31-Dec-13 S_MO_MC_DOS_M_D_G_C LANTANA PAUP STATION WET WEATHER STORAGE - WARRANTY 907 50% 29-Dec-12 31-Dec-11 S_NO_M_F_NO_MOL_C_OL LANTANA PAUP STATION WET WEATHER STORAGE - WARRANTY 907 50% 29-Dec-12 31-Dec-15 S_NO_M_F_NO_M_OL_C_OL LANTANA PAUP STATION WET WEATHER STORAGE - WARRANT		S_SD_MF_NB04_S_01_B_A	KLONDIKE INTERCEPTOR - EASEMENT	459	50% 03-Apr-13	31-Dec-15		l	
S_UT_UT_NOL_NUPLC_A UPPER BILLTOWN ROAD INTERCEPTOR-ESIGN 702 69(% 31-bal-12 31-bal-16 Beargrass Creak Middle Fork Area 423 07/Aby13 31-bal-16 Beargrass Creak Middle Fork Area 423 07/Aby13 31-bal-16 HURSTBOURNE BILITOWN ROAD INTERCEPTOR-EASEMENT 423 07/Aby13 31-bal-13 HURSTBOURNE BILITOWN ROAD INTERCEPTOR-EASEMENT 423 07/Aby13 31-bal-11 M.M. PAROT_SOT_C HURSTBOURNE BILITOWN ROAD INTERCEPTOR-EASEMENT 420 07/Aby13 31-bal-11 M.M. PAROT_SOT_C HURSTBOURNE BILITOWN ROAD INTERCEPTOR-EASEMENT 402 07/Aby13 31-bal-22 CHARLEWOOD INTERCEPTOR EXTENSION 402 07/Aby13 31-bal-22 31-bal-22 CHARLEWOOD INTERCEPTOR EXTENSION 28 20-Aber13 31-bal-22 31-bal-22 CHARLEWOOD INTERCEPTOR EXTENSION 287 20-bal-13 31-bal-22 31-bal-12 LINTRAK SF (INTRESTOR AREADITATION 280 20-bal-13 31-bal-22 31-bal-12 LINTRAK SF (INTRESTOR AREADITATION 290 20-bal-13 31-bal-12 31-bal-12		UPPER BILLTOWN ROAD INTERCEPTOR		915	31-Dec-12	31-Dec-15			
UPPER BILLTOWN ROAD INTERCEPTOR- EASEMENT 500 50% 31-0e-12 31-0e-16 Beargrass Creak Middle Fork Area 521 07/Mary13 31-0e-16 Build Fork Area 507 27/Nov12 31-0e-16 S,M,ME_NB02_S,D/C_ HURSTBOURK BLINKEST & REHAB - WARRANTY 507 60% 77/Nov12 31-0e-11 S,M.ME_NB01_M,D1_C,A1 BUECHEL SURGE BASIN - CONSTRUCTION 402 07/Mary13 31-0e-22 S,DOM CREAK Area 405 27/Avor12 31-0e-13 31-0e-22 COMALISMOD INTERCEPTOR KTENSION 426 24/Art13 31-0e-22 S,DO,WC_PC03_M,D1_C CHARLESWOOD SUBD.INT #23 - CONSTR 206 95 31-0e-22 S,PO_WC_PC03_M,D1_C CHARLESWOOD SUBD.INT #23 - CONSTR 206 95 31-0e-22 S,PO_WC_PC03_M,D1_C CHARLESWOOD SUBD.INT #23 - CONSTR 206 95 31-0e-22 S,PO_WC_PC03_M,D1_C CHARLESWOOD SUBD.INT #23 - CONSTR 206 31-0e-13 31-0e-14 S,PO_WC_PC03_M,D1_C CHARLESWOOD SUBD.INT #23 - CONSTR 206 31-0e-16 31-0e-16 S,PO_WC_PC03_M,D1_C CHARLESWOOT MAR		S_JT_JT_NB01_M_01_C_A	UPPER BILLTOWN ROAD INTERCEPTOR-DESIGN	762	99% 31-Jul-12	31-Dec-15		-	
Beargrass Oreak Mildle Fork Area 501 07.4Mp;131 31-Dec:13 HURSTBOURNE BLINVESTIGATION & REHABLIZATION 367 27.4kor.12 31-Dec:11 Num Full 9.M. MP,1807_50_C HURSTBOURNE BLINVESTIGATION & REHABLIZATION 367 27.4kor.12 31-Dec:11 UMF BL - BUECHEL BASIN 402 07.4Mp;13 31-Dec:13 31-Dec:13 Poind Creek Area 402 07.4Mp;13 31-Dec:13 31-Dec:13 Poind Creek Area 405 29.4pc;13 31-Dec:13 31-Dec:22 CHARLESWOOD INTERCEPOR EXTENSION 405 29.4pc;13 31-Dec:22 31-Dec:13 VC, PC03, MD; C CHARLESWOOD SUBD. INT.#23 - CONSTR. 296 39.4pc;12 31-Dec:12 VD, PC05, M, D; C CHARLESWOOD SUBD. INT.#23 - CONSTR. 296 30-Dec:12 31-Dec:14 S, PO, WC, PC03, M, D; C CHARLESWOOD SUBD. INT.#23 - CONSTR. 296 34-Mar:12 31-Dec:15 DERINGTOR CT EXISTIGATION WET WEATHER STORAGE - WARRANTY 397 29-Dec:12 31-Dec:16 31-Dec:16 S, PO, WP, NOS, M, D; C CARLESWOOD SUBD. INT.#23 - CONSTR 296 34-M			UPPER BILLTOWN ROAD INTERCEPTOR- EASEMENT	580	50% 31-Dec-12	31-Dec-15			
HUBSTROURNE BLINKESTIGATION & REHABLITATION 387 27-Nov-12 31-Dex-11 S,M,M.*, JR07_S,D7_C HIRSTBOURNE BLINKEST & REHAB - WARRANTY 307 60% 27-Nov-12 31-Dex-11 S,M,M.*, JR07_M, D1_C,A1 BUECHEL SURGE BASIN - CONSTRUCTION 402 10% 07-May-13 31-Dex-13 S,MSF_M_F, M01_M, D1_C,A1 BUECHEL SURGE BASIN - CONSTRUCTION 402 10% 07-May-13 31-Dex-13 Point Circle Anso 455 224-Apr-13 31-Dex-22 37-Dex-12 31-Dex-22 S, D0_MC_PC05_M_D1_C CHARLESWOOD SUBD. INT.#23 - CONSTR. 269 0% 22-Apr-13 31-Dex-22 S, D0_MC_PC05_M_D1_C LATTMA FUMP STATION WET WEATHER STORAGE - WARRANTY 307 50% 32-Dex-12 31-Dex-21 OHIO BIVER FROM MAIN AND S D5-Mar-13 31-Mar-12 05-Mar-13 31-Mar-12 S, OR, MF_NOB_M_03_S, D7_C DERINGTON CT FUMP STATION INI INVESTIGATION - WARRANTY 307 50% 32-Dex-12 31-Dex-15 S, OR, MF_NOB_M_03_S, B_ B HARRODS CRK FMSI PH 1-100% DESION 427 100% 10-May-12A 31-Dex-16 S, OR, MF_NOB_M_03_S, B_ B HARRODS CRK INT PH 1-100% DESION 472 100% 10-May-12A <td></td> <td>Beargrass Creek Middle Fork Area</td> <td></td> <td>528</td> <td>07-May-13</td> <td>31-Dec-13</td> <td></td> <td></td> <td>i</td>		Beargrass Creek Middle Fork Area		528	07-May-13	31-Dec-13			i
S.M.M.F.1807_S.OF_C HURSTBOURNE ISI INVEST & REHAB - WARRANTY 367 60% 27-Nor-12 31-Der-11 UMT FIL - BUCCHE BASIN 402 07-May13 33-Der-13 S.M.S.P.NE, NOL, NOL, C_A1 BUECHEL SURGE BASIN - CONSTRUCTION 402 07-May13 33-Der-13 Poind Creek Area 405 23-Apr.13 33-Der-22 CHARLESWOOD SUBD. INT. #23 - CONSTR 269 0% 25-Apr.13 31-Der-22 S.P.O.WC_PCOS.M.(D_C_C CHARLESWOOD SUBD. INT. #23 - CONSTR 269 0% 25-Apr.13 31-Der-22 LANTANA FX (INVESTIGATION & REHABULTATION 367 25-Der-12 31-Der-13 OHIO RIVELE COMMAIN AREA 101 01-Lant.14 31-Der-12 LANTANA FX (INVESTIGATION & REHABULTATION 368 30-Mar-12 31-Der-16 S.OR_ME_NEWS (G, G, C DERINGTON CT PUMP STATION WESTIGATION - WARRANTY 366 258-Abr.13 31-Mar-12 LANTANA FX (INVESTIGATION & REHABULTATION 368 30-Mar-12 31-Der-16 S.OR_ME_NEWS (M, 08, B, B HARRODS CREK MITH HI - 100% DESIGN 427 100% (01-May124, 23)-Der-16 31-Der-16 S.OR_ME_NEWM (M, 08, B, B		HURSTBOURNE ISLIN/ESTIGATION & REE	ABUITATION	367	27-Nov-12	31-Dec-11			1
UMP II: - BUCKILL BASIN 402 07-May-13 31-Dec-13 S_MISF_ME_NBOL_MO_L_C_AL BUECHEL SURGE BASIN - CONSTRUCTION 402 10% 07-May-13 31-Dec-13 Point Circle Alara 405 28-Apr-13 31-Dec-12 S1-Dec-22 CHARLESWOOD INTERCEPTOR EXTENSION 209 28-Apr-13 31-Dec-22 S_PO_WC_PC05_M_01_C CHARLESWOOD SUBD.INT.#23- CONSTR. 209 0% 28-Apr-13 31-Dec-12 S_PO_WC_PC05_M_07_C LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY 307 29-Dec12 31-Dec-11 S_PO_WC_PC05_M_07_C LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY 307 29-Dec12 31-Dec-11 Ohio River Force Main Area 121 01-dan-14 31-Dec-15 31-Dec-15 S_OR_MF_NB03_M_03_B_3 EPSC PLANS 486 30-Mar-12 31-Dec-15 S_OR_MF_NB04_M_03_B_3 EPSC PLANS 144 100% 01-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_3 HARRODS CRIK INT PH I - 100 ADTE 1 050 100% 10-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_3 HARRODS CRIK INT PH I - DOTENING 0 0%		S MI ME NB07 S 07 C	HURSTBOURNE I& UNVEST & REHAB - WARRANTY	367	60% 27-Nov-12	31-Dec-11	-		<u> </u>
SIMP No. No. <td></td> <td>LINAS HI - DUISCHEL DASIN</td> <td></td> <td>402</td> <td>07-May-13</td> <td>31-Dec-13</td> <td></td> <td></td> <td>1</td>		LINAS HI - DUISCHEL DASIN		402	07-May-13	31-Dec-13			1
Charles (Integration) Construction Construction <thconstruction< th=""> Construction Const</thconstruction<>		S MISE ME NB01 M 01 C A1	BLIECHEL SURGE BASIN - CONSTRUCTION	402	10% 07-May-13	31-Dec-13			1
Pond Creek Area Rot Doma Creek Area Structure CHARLESWOOD INTERCEPTOR EXTENSION 226 23-Apr.13 31-Dee-22 S_PO_WC_PC03_M_D1_C CHARLESWOOD SUBD. INT.#23 - CONSTR. 296 0% 26-Apr.13 31-Dee-12 LANTANA PS (/) INVESTIGATION & REHABILITATION 367 29-Dee-12 31-Dee-11 Ohio River Force Main Area 1281 01-Jam.14 31-Dee-16 S_OR_M_NEDS, Sy, 07_O Demix Stron CT PLMP STATION WET WEATHER STORAGE - WARRANTY 366 30-Mar-13 31-Mar-12 HARROD'S CREK INTERCEPTOR 006 30-Mar-13 31-Mar-12 31-Dee-15 S_OR_M_NEDA_M.03_B_B HARRODS CREK INTELCEPTOR 100% 00% 15-Neo-12 31-Dee-15 S_OR_M_NEDA_M.03_B_B HARRODS CREK INTELL 100% 00% 15-Neo-12 31-Dee-15 S_OR_M_NEDA_M.03_B_B HARRODS CREK INTEL - ADATE 1 </td <td></td> <td></td> <td>BOECHEL SONGE BASIN - CONSTRUCTION</td> <td>405</td> <td>28-Ane 12</td> <td>211Dec-13</td> <td></td> <td></td> <td></td>			BOECHEL SONGE BASIN - CONSTRUCTION	405	28-Ane 12	211Dec-13			
CHARLESWOOD INTERCEPTOR EXTENSION 289 28-Apr-13 31-Des-22 S.PO_WC_PO33_M_0_C CHARLESWOOD SUBD. INT.#23 - CONSTR. 290 62 Apr-13 31-Des-11 S_PO_WC_PO33_M_0_C LANTANA PS // INVESTIGATION & REHABILITATION 387 24-Des-12 31-Des-11 S_PO_WC_PO33_M_0_C LANTANA PS // INVESTIGATION WET WEATHER STORAGE - WARRANTY 387 50% 24-Des-12 31-Des-11 Ohio River Force Main Area 121 01-Jant4 31-Des-15 31-Des-15 DERINGTON CT PS // INVESTIGATION & REHABILITATION 386 30-Mar-13 31-Mar-12 % CPR_MF_N804_M_03_B_B HARRODS CRK FM&I PH. I - 100% DESIGN 427 100% 01-May-12A 31-Des-15 % CPR_MF_N804_M_03_B_B HARRODS CRK INT PH. I - AD DATE 1 0% 01-Sey-12 31-Des-15 % CPR_MF_N804_M_03_B_B HARRODS CRK INT PH. I - AD DATE 1 0% 01-Sey-12 31-Des-15 % CPR_MF_N804_M_03_B_B HARRODS CRK INT PH. I - AD DATE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Pond Creek Area		-105	20-10	01-060-22			1
\$_PO_WC_PC03_M_01_C CHARLESWOOD SUBJ. INT. #23-CONSTR. 209 0% 26.Apr.13 31-Dec-22 LANTANA DI // INVESTIGATION & REMARITATION 307 20-Dec-12 31-Dec-11 \$_PO_WC_PC05_M_07_C LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY 367 50% 20-Dec-12 31-Dec-11 Ohio River Force Main Area 121 01-Jan.14 31-Dec-15 DERINGTON CT BY I/ INVESTIGATION & REHABILITATION 360 30-Mar.13 31-Mar-12 \$_OR_MF_N803_5_07_C DERINGTON CT PUMP STATION I& INVESTIGATION - WARRANTY 386 25% 30-Mar.13 31-Dec-15 \$_OR_MF_N804_M_03_B_B HARRODS CRK FM81 PH. 1- 100% DESIGN 427 100% OL-May.124 31-Dec-15 \$_OR_MF_N804_M_03_B_B EPSC PLANS 104 100% 02-Juh.12 31-Dec-15 \$_OR_MF_N804_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 15-Dec-12 31-Dec-15 \$_OR_MF_N804_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 15-Dec-12 31-Dec-15 \$_OR_MF_N804_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 15-Dec-12 31-Dec-15 \$_OR_MF_N804_M_03_B_B HARRODS CRK INT PH.1 - AD AATE<		CHARLESWOOD INTERCEPTOR EXTENSION		269	26-Apr-13	31-Dec-22			1
LANTWAR PS (II INVESTIGATION & REHABILITATION 367 24-Dec-12 31-Dec-11 S_PO_WC_PCOS_M_07_C LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY 367 50% 24-Dec-12 31-Dec-11 Ohio River Force Main Area 1231 01-Jans14 31-Dec-15 DERINGTON CT PS // INVESTIGATION & REHABILITATION 366 30-Mar-13 31-Mar-12 %_OR_ME_NB03_S_07_C DERINGTON CT PUMP STATION I// INVESTIGATION - WARRANTY 366 16-Dec-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK FMAI PH.1 - 100% DESIGN 427 100% 01-May-12A 31-Dec-16 %_OR_ME_NB04_M_03_B_B EPSC PLANS 194 100% 02-Jul-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK INIT PH.1 - AD DATE 1 0% 01-Sep-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK INIT PH.1 - AD DATE 1 0% 01-Sep-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK INIT PH.1 - AD DATE 1 0% 15-Dec-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK INIT PH.1 - AD DATE 1 0% 15-Dec-12 31-Dec-16 %_OR_ME_NB04_M_03_B_B HARRODS CRK INT PH.1 - ADATE </td <td></td> <td>S_PO_WC_PC03_M_01_C</td> <td>CHARLESWOOD SUBD. INT. #23 - CONSTR.</td> <td>269</td> <td>0% 26-Apr-13</td> <td>31-Dec-22</td> <td></td> <td></td> <td>1</td>		S_PO_WC_PC03_M_01_C	CHARLESWOOD SUBD. INT. #23 - CONSTR.	269	0% 26-Apr-13	31-Dec-22			1
S_PO_WC_PCOS_M_07_C LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY 387 50% 320-Dec-12 31-Dec-11 Ohio River Force Main Area 1231 Dif-Jun-14 31-Dec-15 DERINGTON CT 5% (INVESTIGATION & REHABILITATION 3806 30-Mar-13 31-Mar-12 S_OR_MF_NB03_S_07_C DERINGTON CT PUMP STATION I&I INVESTIGATION - WARRANTY 386 25% 30-Mar-13 31-Mar-12 HARROD'S CREEK INTERCEPTOR 0ERINGTON CT PUMP STATION I&I INVESTIGATION - WARRANTY 386 25% 30-Mar-13 31-Mar-12 S_OR_MF_NB04_M_03_B_B HARROD'S CRK FM8I PH. I - 100% DESIGN 427 100% 01-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARROD'S CRK INT PH. I - AD DATE 1 0% 01-Sep-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARROD'S CRK INT PH. I - BID OPENING 0 0% 15-Dec-12' 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARROD'S CRK INT PH. I - AWARD 0 0% 15-Dec-12' 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARROD'S CRK INT PH. I - AWARD 0 0% 15-Dec-12' 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARROD'S CRK INT PH. I - AWARD 0 0% 15-Dec-12' 31-Dec-15		LANTANA PS I/I INVESTIGATION & REHABI	LITATION	367	29-Dec-12	31-Dec-11			1
Ohio River Force Main Area 1281 01-Jan-14 31-Dec-15 DERINGTON CTPS (/) INVESTIGATION & REHABILITATION 380 30-Mar-13 31-Mar-12 S_OR, MF_NEGS_SOT, C DERINGTON CTPS (/) INVESTIGATION & REHABILITATION 380 30-Mar-13 31-Mar-12 HARROD'S CREEK INTERCEPTOR 565 15-Dec-16 31-Dec-16 S_OR, MF_NEGH_M_03, B_, B EPSC PLANS 184 100% 02-U1-12 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK FM8I PH. 1 - 100% DESIGN 427 100% 01-May-12 A 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH. 1 - AD DATE 1 0% 01-Sep-12 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH. 1 - AD DATE 1 0% 01-Sep-12 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH. 1 - AWARD 0 0% 15-Dec-12* 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH. 1 - AWARD 0 0% 15-Dec-12* 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Agr-12A 31-Dec-15 S_OR, MF_NEGH_M_03, B_, B HARRODS CRK INT PH II		S_PO_WC_PC05_M_07_C	LANTANA PUMP STATION WET WEATHER STORAGE - WARRANTY	367	50% 29-Dec-12	31-Dec-11		1	1
DERINGTON CT PS (/) INVESTIGATION & REHABILITATION 380 30-Mar-13 31-Mar-12 \$_OR_MF_NB03_S_07_C DERINGTON CT PUMP STATION I& INVESTIGATION - WARRANTY 388 25% 30-Mar-13 31-Mar-12 HARROD'S CREEK INTERCEPTOR 055 15-Dec-15 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK FM&IPH.1 - 100% DESIGN 427 100% 01-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - AD DATE 11 0% 01-Sep:12 31-Dec-16 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - AD DATE 1 0% 05 10-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - BO OPENING 0 0% 15-Dec-12 31-Dec-16 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - AWARD 0 0% 15-Dec-12 31-Dec-16 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - AWARD 0 0% 15-Dec-12 31-Dec-16 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - AWARD 0 0% 15-Dec-12 31-Dec-16 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.1 - CONSTRUCTION DCOUMENTS 304 </td <td></td> <td>Ohio River Force Main Area</td> <td></td> <td>1281</td> <td>01-Jan-14</td> <td>31-Dec-15</td> <td></td> <td></td> <td></td>		Ohio River Force Main Area		1281	01-Jan-14	31-Dec-15			
\$_OR_MF_NB03_S_07_C DERINGTON CT PUMP STATION I&I INVESTIGATION - WARRANTY 366 25% 30-Mar-13 31-Mar-12 HARROD'S CREEK INTERCEPTOR 655 15-Dec-12 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK FM8I PH. I - 100% DESIGN 427 100% 01-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B EPSC PLANS 194 100% 02-Jul-12 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - DO ATE 1 0% 01-Sep-12 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - DO PENING 0 0% 15-Nov-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - EASEMENT 505 60% 15-Nov-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - AWARD 0 0% 15-Dec-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-Apr-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEME		DERINGTON CT PS I/I INVESTIGATION & R	EHABILITATION	366	30-Mar-13	31-Mar-12			1
HARROD'S CREEK INTERCEPTOR 665 15-Dec-12 31-Dec-16 S_OR_MF_NB04_M_03_B_B HARRODS CREMABIPH.1 - 100% DESIGN 427 100% 01-May12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMABIPH.1 - 100% DESIGN 427 100% 01-May12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH.1 - AD DATE 1 0% 01-Sep12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH.1 - BID OPENING 0 0% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH.1 - BASEMENT 505 60% 15-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH.1 - AWARD 0 0% 15-Dec-15 1 HARROD'S CREEK INTERCEPTOR PHASE 2 856 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH I- OPDATE & FINALIZE PLANS 304 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREMINT PH I- DESIGN 609 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRMINT PH I- CONSTRUCTION DOCUMENTS 334 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS C		S_OR_MF_NB03_S_07_C	DERINGTON CT PUMP STATION 18/ INVESTIGATION - WARRANTY	366	25% 30-Mar-13	31-Mar-12			
\$_OR_MF_NB04_M_03_B_B HARRODS CRK FM8I PH. I - 100% DESIGN 427 100% 01-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B EPSC PLANS 184 100% 02-Jul-12 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 01-Sep-12 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- BID OPENING 0 0% 15-Nov-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- EASEMENT 505 60% 15-Nov-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AWARD 0 0% 15-Dec-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AWARD 0 0% 15-Dec-12' 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- OWATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II- OPATE & FINALIZE PLANS 304 100% 30-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.ISON 609 100% 30-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.ISON 31-Dec-15 100% 30-May-12A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.ISON 20		HARROD'S CREEK INTERCEPTOR		655	15-Dec-12	31-Dec-15			1
S_OR_MF_NB04_M_03_B_B EPSC PLANS 184 100% 02-Jul-12 31-Dec-16 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 01-Sep-12 31-Dec-16 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- BLO OPENING 0 0% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- EASEMENT 505 60% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- EASEMENT 505 60% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AWARD 0 0% 15-Dec-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH HIS - DESIGN 609 100% 30-Apr-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.II - EASEMENTS 304 100% 30-May-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH.II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR		S_OR_MF_NB04_M_03_B_B	HARRODS CRK FM&I PH. I - 100% DESIGN	427	100% 01-May-12 A	31-Dec-15			
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AD DATE 1 0% 01-Sep-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- BID OPENING 0 0% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- BID OPENING 0 0% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. 1- AWARD 0 0% 16-Nov-12* 31-Dec-15 HARROD'S CREEK INTERCEPTOR PHASE Z 586 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II- UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II- DESIGN 609 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II- CONSTRUCTION DOCUMENTS 334 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR 410 22-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD 1281 30% 01-Ja		S_OR_MF_NB04_M_03_B_B	EPSC PLANS	184	100% 02-Jul-12	31-Dec-15			
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - BID OPENING 0 0% 15-Nov-12* 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - EASEMENT 505 60% 15-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - AWARD 0 0% 15-Dec-12* 31-Dec-15 HARROD'S CREEK INTERCEPTOR PHASE 2 856 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH ASE II - DESIGN 609 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 01-Jan-14 31-Dec-15		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PH. 1 - AD DATE	1	0% 01-Sep-12	31-Dec-15			
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - EASEMENT 505 60% 15-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - AWARD 0 0% 15-Dec-12* 31-Dec-15 HARROD'S CREEK INTERCEPTOR PHASE 2 856 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - DESIGN 699 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - DESIGN 401 609 100% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 00% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30-Jun-12A 31-Dec-15 S_OR_		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PH. I - BID OPENING	0	0% 15-Nov-12"	31-Dec-15			1
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH. I - AWARD 0 0% 15-Dec-12* 31-Dec-15 HARROD'S CREEK INTERCEPTOR PHASE 2 858 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH ASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 410 30% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 410 410 410 410 410 410 410 410 410 410 410 410 410 410 410		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PH. I - EASEMENT	505	60% 15-Nov-12	31-Dec-15			•
HARROD'S CREEK INTERCEPTOR PHASE 2 856 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12.A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH ASE II - DESIGN 609 100% 30-May-12.A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12.A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH ASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 300-Jun-12.A 31-Dec-15 30-Jun-12.A S_OR_MF_NB04_M_03_B_B		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PH. I - AWARD	0	0% 15-Dec-12*	31-Dec-15			1
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS 304 100% 30-Apr-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - DESIGN 609 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PLIMP STATION 273 30-Jun-12 A 31-Dec-15 100 S_OR_MF_NB04_M_03_B_B HARRODS CREEK PS. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		HARROD'S CREEK INTERCEPTOR PHASE 2		856	02-Nov-12	31-Dec-15			1
\$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - DESIGN 609 100% 30-May-12 A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12 A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 \$_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 \$_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 01-Jan-14 31-Dec-15 \$_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 01-Jan-14 31-Dec-15 \$_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 273 30-Jun-12 A 31-Dec-15 \$_OR_MF_NB04_M_03_B_B HARRODS CREEK PS. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS	304	100% 30-Apr-12 A	31-Dec-15			
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS 334 100% 30-May-12.A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 02-Nov-12 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 02-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12A 31-Dec-15 100 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12A 31-Dec-15		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PHASE II - DESIGN	699	100% 30-May-12 A	31-Dec-15			-
S_OR_MF_NB04_M_03_B_B HARRODS CRK INT PHASE II - EASEMENTS 401 60% 02-Nov-12 31-Dec-15 RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		S OR MF NB04 M 03 B B	HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS	334	100% 30-May-12 A	31-Dec-15			
RIVER ROAD INTERCEPTOR 410 28-Mar-13 31-Dec-15 S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 100% 30-Jun-12 A S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		S_OR_MF_NB04_M_03_B_B	HARRODS CRK INT PHASE II - EASEMENTS	401	60% 02-Nov-12	31-Dec-15			-
S_OR_MF_NB04_M_03_B_B RIVER ROAD INTERCEPTOR - CONSTRUCTION 410 30% 28-Mar-13 31-Dec-15 SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		RIVER ROAD INTERCEPTOR		410	28-Mar-13	31-Dec-15			1
SHADOW WOOD 1281 01-Jan-14 31-Dec-15 S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		S OR MF NB04 M 03 B B	RIVER ROAD INTERCEPTOR - CONSTRUCTION	410	30% 28-Mar-13	31-Dec-15			i
S_OR_MF_NB04_M_03_B_B SHADOW WOOD - DESIGN 1281 30% 01-Jan-14 31-Dec-15 HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		SHADOW WOOD		1281	01-Jan-14	31-Dec-15			1
HARROD'S CREEK PUMP STATION 273 30-Jun-12 A 31-Dec-15 S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		S OR MF NB04 M 03 B B	SHADOW WOOD - DESIGN	1281	30% 01-Jan-14	31-Dec-15			1
S_OR_MF_NB04_M_03_B_B HARRODS CREEK P.S. & F.M EASEMENT 273 100% 30-Jun-12 A 31-Dec-15		HARROD'S CREEK PLIMP STATION		273	30-Jun-12 A	31-Dec-15			
3 of 4		S OR MF NB04 M 03 B B	HARRODS CREEK P.S. & F.M EASEMENT	273	100% 30-Jun-12 A	31-Dec-15			i
				3.0	f4	A REAL PROPERTY OF THE PARTY OF			1







Project Number	Activity Name	At Completion	Physical % Finish	IOAP Finish	Max	1.000	Mari	_
Mill Creek Area		730	30-Jul-12	31-Dec-14	Mar	Apr	iviay	_
SHIVELY INTERCEPTOR		730	30-Jul-12	31-Dec-14	-		1	1
S MC WC NB01 M 01 A	SHIVELY INTERCEPTOR - CD CERTIFY	0	100% 13-Apr-12 A	31-Dec-14		•		
S MC WC NB01 M 01 A	SHIVELY INTERCEPTOR - CONSTRUCTION	730	99% 30-Jul-12	31-Dec-14				
Combined Sewer System Area		366	15-Jun-13	31-Dec-13	1			
CAMP TAYLOR #2, REPLACE SEWERS		366	15-Jun-13	31-Dec-13	-			1
S SF MF 30917 M 09 A	CAMP TAYLOR #2 REPLACE SEWERS - CONSTRUCTION	366	5% 15-Jun-13	31-Dec-13	-	1		
Small WWTP Area		299	09-Apr-13	31-Dec-12				
LAKE FOREST PS SSO INVESTIGATION		91	13-Sep-12	31-Dec-12				ĺ.
S FF LF NB01 S 13 C A	LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE	0	100% 15-Jun-12A	31-Dec-12	-			
S FF LF NB01 S 13 C A	LAKE FOREST PUMP STATION IMPROVEMENT - BID OPEN	0	0% 15-Jul-12*	31-Dec-12			1	ĺ.
S FF LF NB01 S 13 C A	LAKE FOREST PUMP STATION IMPROVEMENT - AWARD	0	0% 01-Aug-12"	31-Dec-12				
S FF LF NB01 S 13 C A	LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION	43	0% 13-Sep-12	31-Dec-12				
RIDING RIDGE PS IMPROVEMENTS		119	09-Apr-13					
S_HC_HN_NB01_S_03_C_A	RIDING RIDGE PUMP STATION IMPROVEMENT - DESIGN	119	0% 09-Apr-13					
Interim SSDP Projects (Derek R. Gut	hrie WQTC Project Schedules are Under Revision)	1084	15-Apr-13	27-Nov-12				
DEREK R GUTHRIE WOTC 2 (H09563 DRG	WOTC WET WEATHER EQUALIZATION)	663	15-Apr-13	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER EQUALIZATION BASIN-SUB COMP	227	100% 15-Apr-12 A	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER EQUALIZATION BASIN-CONSTR	466	99% 30-Sep-12	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER EQUALIZATION BASIN-CD CERTIFY	122	0% 30-Oct-12	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER EQUALIZATION BASIN-AS BLTS	197	0% 15-Apr-13	31-Dec-11				1
DEREK R GUTHRIE WQTC 3 (H09561 DRG	WQTC WET WEATHER TREATMENT)	944	31-Dec-12	31-Dec-11				į.
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- SUB OPERATIONAL	227	100% 15-Apr-12 A	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- SUBSTANTIAL COMP	0	100% 20-May-12A	31-Dec-11			•	
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- CONSTRUCTION	796	90% 04-Aug-12	31-Dec-11				F
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- FINAL COMP	0	0% 04-Aug-12*	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- CD CERTIFY	0	0% 30-Oct-12"	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: WET WEATHER TREATMENT FACILITY- AS-BLTS	0	0% 31-Dec-12"	31-Dec-11	_			ĺ.
DEREK R GUTHRIE WQTC 4 (H06302 DRG	WQTC WET WEATHER FLOW EQUALIZATION & TREATMENT)	960	01-Jan-13	31-Dec-11	4		1	ĺ.
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: PUMPING PACKAGE - CD CERTIFY	0	0% 30-Oct-12*	31-Dec-11		1		
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: PUMPING PACKAGE - ASBUILTS	000	0% 31-Dec-12	31-Dec-11				
DEREK R GUTHRIE WATER QUALITY	DRGWQTC: POMPING PACKAGE - CONSTRUCT	960	90% 01-Jan-13	31-Dec-11				-
HIKE'S POINT INTERCEPTOR PHASE 1	HIKES POINT INTERCEPTOR - SUBST COMPLETE	0	100% 30 km 12 A	27-Nov-12	4			
HIKES LANE INTERCEPTOR /HIGHG	HIKES POINT INTERCEPTOR - SOBST COMPLETE	0	100% 30-Jun-12A	27-Nov-12				ĺ.
HIKES I ANE INTERCEPTOR /HIGHG	HIKES POINT INTERCEPTOR - CD CERTEY	0	0% 30- bil 12*	27-Nov-12				Í.
HIKES LANE INTERCEPTOR /HIGHG	HIKES POINT INTERCEPTOR - WARRANTY	0	0% 28-Aug-12	27-Nov-12				
HIKE'S POINT INCEPTOR PHASE 2		399	27-Sep-12	27-Nov-12				1
HIKES LANE INTERCEPTOR /HIGHG.	HIKES POINT INTERCEPTOR PHASE II- CONSTRUCTION	399	65% 27-Sep-12	27-Nov-12			-	-
SOUTHEAST DIVERSION STRUCTURE & IN	ITERCEPTOR	641	11-Jun-12 A	12-May-12				
SOUTHEASTERN DIVERSION STRUC	SOUTHEASTERN INTERCEPTOR RELIEF SEWER - CD CERTIFY	588	100% 19-Apr-12 A	12-May-12				
SOUTHEASTERN DIVERSION STRUC	SOUTHEASTERN INTERCEPTOR RELIEF SEWER - CONSTR	611	100% 12-May-12 A	12-May-12				
SOUTHEASTERN DIVERSION STRUC	SOUTHEASTERN INTERCEPTOR RELIEF SEWER - AS-BUILT	0	100% 11-Jun-12 A	12-May-12				Í.
Other Projects		732	01-Jul-13	30-Dec-24				
I/I REDUCTION PROGRAM		732	01-Jul-13	30-Dec-24				
MULTICI C	FY12 I/I REDUCTION PROGRAM - CONSTRUCTION	549	60% 30-Dec-12	30-Dec-24				
MULIFLE								۰.







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

4.1 Public Notification Program

MSD produced and distributed a number of products 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, 18th and Northwestern Parkway Basin, Prospect WQTC eliminations, Jeffersontown WQTC elimination, Paddy's Run High Rate Treatment Project, and SOR1 and SOR2 projects), a rain barrel installation video, and a video on the Paris/Germantown Rain Garden.

On April 22, 2012, Project WIN released a new website with information on the Amended Consent Decree, notifications of meetings, information on "how you can help", and Project WIN initiatives. This new website can be viewed at www.msdprojectwin.org.

Published a two page flyer in the Courier Journal on April 22, 2012. One side of the flyer provided details on water quality after rain events and safety procedures. The other side outlined the new "Know Where it Goes" initiative that will provide information on pet waste pickup, proper disposal of grease, and catch basin/inlet connectivity to the creek. The intent of the initiative is to alert residents to their impact on the water quality of the creeks of Louisville Metro and Ohio River.

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 IOAP meetings to discuss the proposed IOAP 2012 modification and select project updates. Meetings were held across the community on the following dates and locations:
 - May 10, 2012 NIA Center 2900 West Broadway Discussed IOAP Overview, 18th and Northwestern Parkway Basin, Paddy's Run Project, and SOR1 and SOR2 Projects.
 - May 15, 2012 Jeffersontown Community Center 10617 Taylorsville Road Discussed IOAP Overview, Billtown Road Project, and the Jeffersontown WQTC Elimination Project.
 - May 17, 2012 Harrods Creek Fire Department 8905 US Hwy 42 Discussed IOAP Overview, Paddy's Run Project, and the Prospect WQTC Elimination Plans.
- Facilitated a Wet Weather Team meeting to update Stakeholders on the IOAP progress, public input process, and the IOAP 2012 modification on May 8, 2012 at the MSD Main Office at 700 West Liberty Street.
- Planned meetings for early August to address IOAP changes, updates to the Camp Taylor Project, and for CSO 190 Green Projects (18th and Northwestern Parkway Basin Project).





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.

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 has continued working on the Facilities Plan Update, establishing the study area and projecting the flow and loads from the service area. During the next reporting period, MSD will confirm the extent of the service area by determining if areas beyond the Jefferson County boundary will be included in the future service area. Once confirmed, the alternative analysis for both the collection and treatment systems will be created and MSD will begin scheduling public outreach meetings.

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

Construction of the Phase 2 Expansion of the Floyds Fork WQTC continued in this reporting period with completion of one new fabric tertiary filter, two of the three new clarifiers and three sludge holding tanks. During the next reporting period, the second tertiary filter will be completed, the new sludge loading station and waste activated sludge pump station will be on line and the new sludge holding tanks will be placed into service. Work will also begin on the third clarifier and installation of the new influent pumps. The expansion will provide an average daily design capacity of 7.5 MGD with the addition of the third clarifier at the current site.

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, finalizing the flow and load projections and drafting the alternative analysis for both the collection and treatment systems. During the next reporting period, the alternative analysis will be finalized and public outreach meetings will be scheduled.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification





to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

Staff completed an in-house project to replace the influent flow splitter box.

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**.

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

5.3.8 Berrytown Water Quality Treatment Center

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

Began the design phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, final design drawings and specifications will be created.

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**.





Completed the installation of flow pacing equipment to optimize the disinfection process at the plant. During the next reporting period, staff will began data collection to confirm chemical and potable water savings.

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> MSD has final construction drawings for the gravity elimination of the plant. The plant flows will be diverted to the existing Washington Green Pump Station which will require expansion. The pump station expansion and plant elimination costs are not currently in the approved MSD budget. A developer is proposing to expand this pump station as part of a future development project. If the development does not occur, MSD will review the current budget for funds to eliminate the plant. During the reporting period, MSD continued discussions with the developer to coordinate the plant elimination. During the next reporting period, MSD will also continue discussions with the developer and continue to monitor the structural condition of the plant and perform remedial activities as needed coordinating with the proposed elimination schedule of December 31, 2014.
- <u>Silver Heights WQTC</u> Completed the review of several alternatives to eliminate the plant. A gravity solution alternative was selected and budget was allocated creating a capital project to eliminate the plant. During the next reporting period, MSD will begin design of the elimination project. Based on available budget, easement acquisition, and regulatory agency approval, MSD anticipates elimination will be completed by December 31, 2014

5.4 CMOM Activity Schedule

CMOM capital project milestones for the period of April 1, 2012, through June 30, 2012, as well as a look-ahead for the period of July 1, 2012, through December 31, 2012, are provided in the schedule below.





MSD CMOM FY12 Annual Commitments Schedule (01 April 2012 - 31 December 2012) Activity ID Activity Name Start Finish Apr May Jul Jun 04-Oct-10A 14-Aug-13 CMOM FY ANNUAL REPORT COMMITMENTS FINAL 04-Oct-10 A 14-Aug-13 M-E-9 Infrastructure Rehabilitation Lee Ann Way Pump Station Grinder Installation Project (F07069) 22-Sep-11 A 22-Sep-12 A2060 Warranty Period 22-Sep-11 A 22-Sep-12 Brandeis Viaduct #2 Pump & Controls Modifications Project (F04192) 01-May-11 A 01-May-12 A A1720 01-May-11 A 01-May-12 A Warranty Period 21-Sep-11 A 21-Sep-12 Shively Pump Station Grinder Replacement Project Planning (H10151) A2150 Warranty 21-Sep-11 A 21-Sep-12 20-Jan-11 A 30-Apr-12 A Fairmount Road Pump Station Expansion Project (E00303) Construction - Final Completion 20-Jan-11 A 30-Apr-12 A A1890 04-Oct-10 A 30-Jun-12A Lake Forest Pump Station, Force Main & Interceptor (E05509) 04-Oct-10A 30-Jun-12A A1830 Construction 01-Nov-11 A 01-Nov-12 Annual I/I Project (H09205) A2560 01-Nov-11 A 01-Nov-12 Construction A4540 15-Feb-12 A 01-Nov-12 Camp Taylor 5 - Construction A4530 Camp Taylor 4 - Construction 04-Apr-12A 01-Nov-12 A4550 Dolphin Rd - Construction 01-Aug-12* 01-Nov-12 A4560 Heller St - Construction 01-Aug-12* 01-Nov-12 A4570 Macon Rd - Construction 01-Aug-12* 01-Nov-12 A4580 Fagenbush Ln - Construction 01-Aug-12* 01-Nov-12 A4590 Jenlee - Construction 01-Aug-12* 01-Nov-12 01-Apr-12A 30-Sep-12 4th and Oak CIPP Project (H09205) A4360 Design 01-Apr-12A 01-May-12 A A4370 Ad 30-Jun-12A ٠ A4380 Bid Open 10-Jul-12" 01-Aug-12* A4390 Award A4400 Construction 01-Aug-12* 30-Sep-12 St Matthews Interceptor I/I Rehabilitation Project (H12059) 01-Feb-12 A 31-Aug-12 31-Aug-12 A2930 Construction 01-Feb-12 A 30-Sep-12 15-Feb-12 A Lea Ann Way Interceptor I/I Rehabilitation Project (H12064) A3010 Construction 15-Feb-12 A 30-Sep-12 Lake Forest Sanitary Sewer Rehabilitation Project (H11303) 01-Nov-11 A 18-Apr-13 A3150 Planning 01-Nov-11 A 02-Apr-12 A A3160 Ad 15-Aug-12* A3170 **Bid Opening** 15-Sep-12* A3190 Construction 01-Oct-12" 18-Apr-13 A3180 Award 01-Oct-12* 31-Mar-12 A 21-Sep-12 Camp Taylor SSR Phase I Project (H09407) A3670 Construction 31-Mar-12 A 21-Sep-12 01-Nov-11 A 01-Jan-13 Lea Ann Way SSR Phase I Project (H09405) 01-Nov-11 A 02-Apr-12 A A3740 Planning A3700 Ad 31-Mar-12 A A3710 **Bid Opening** 15-Apr-12A ٠ A3730 Award 15-May-12A . A3720 Construction 15-Jun-12A 01-Jan-13 02-Apr-12A 30-Jul-13 Prospect Phase I Sanitary Sewer Rehabilitation Project (H11311) A3200 Planning 02-Apr-12.A 30-Jul-12 A3210 Ad 01-Oct-12* 1 of 4



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M	S	D
Metropolitas	Sewer	District

	rectify fulling	Start	Fillish				_
42220	Pid Onepies	01 Nov 121		Apr	May	Jun	1
A3220	Bid Opening	01-N0V-12	20 1-1 12			1	
A3220	Construction	15-Jan-13	SU-JUP 15			1	
Pi0200	Award Handback	05-14-15	21 Mar 12 A			1	
Prospect Phase	Il SSES (H11319)	OT-JUETTA OT JUETTA	31-Mar-12 A				
ASTUD	Flanning	UT-JUETT A	31-Mar-12 A			1	
Windham PS SS	SES (H11316)	01-JUI-11 A	31-Mar-12 A			1	
ASTIU	Planning	UT-JUETT A	31-Mar-12 A			1	
Cedar Creek Ph	ase II SSES (H11313)	UT-SUP TEA	51-Aug-12				_
A3120	Planning	01-Jul-11 A	31-Aug-12			1	
Chenoweth Hill	s WQTC /Chenoweth Run PS SSES (H11318)	01-Jul-11 A	31-Aug-12			1	_
A3130	Hanning	UT-JUFTT A	31-Aug-12		1	1	
Shively SSES (F	(11408) Otension	UT-JUETT A	31-Dec-12			i	_
A3140	Planning	01-Jul-11 A	31-Dec-12		1	1	
Willow Ave Sev	ver Repair Project	30-Apr-12 A	20-May-12 A			1	
A3750	Construction	30-Apr-12 A	20-May-12 A			1	
Maple Road Se	wer Rehabilitation Project (H09409)	28-Mar-12 A	18-May-12 A			1	
A3700	Construction	28-Mar-12 A	18-May-12A			1	
Collins Lane Set	wer Rehabilitation Project (H12106)	01-Feb-12 A	11-Dec-12	_			
A3870	Design	01-Feb-12A	UD-Apr-12A			1	
A3880	Ad	00-Apr-12A		•		1	
A3890	Bid Open	25-Apr-12A		•		1	
A3900	Award	14-May-12A			•		_
A3800	Construction	14-Jun-12 A	11-Dec-12				
Lea Ann Way E	ast - Stonybrook Rehabilitation Project (C08433)	01-Nov-12	13-Jul-13			1	
A3930	Ad	01-Nov-12-				1	
A3940	Bid Open	30-Nov-12-				1	
A3950	Award	15-Dec-12*	10 1 1 10			1	
A3910	Construction	10-Jan-13-	13-JUI-13			1	
Lea Ann Way E	ast - Fegenbush Rehabilitation Project (C08433)	01-Sep-12	30-May-13			i	
A3980	Ad	01-Sep-12				1	
A3990	Bia Open	01-Oct-12				1	
A4000	Award	15-0et-12-				1	
A3900	Construction	U1-Dec-12	30-May-13			1	
Lea Ann Way E	ast - Fern Creek Rehabilitation Project (C08433)	10-Jan-12A	13-Apr-13				
44170	L'esign Au	10-Jan-12A	SU-may-12A				
A4180	Ad Dece	30-Jul-12*				1	
A4190	bio Open Award	30-Aug-12*				1	
A4100	Award	10-Sep-12*	12 4				
A4100	Construction	15-Oct-12*	13-Apr-13				
Lea Ann Way E	ast - Picadility Rehabilitation Project (C08433)	10-Nov-12	14-Aug-13				
A4280	Ad Did Owner	15-Nov-12"				1	
A4290	Bid Open	15-Dec-12"				1	
A4300	Award	15-Jan-13*	11 1 - 12			1	
A4200	Construction	10-Feb-13*	14-Aug-13			1	
FY13 ICA Projec	1	01-Jun-12A	01-Jun-13			L	_
A4410	manning	01-Jun-12 A	01-Jun-13				
ump Station (Operations Programs	04-Feb-11 A	U1-Mar-13		i	i	







ID	Activity Name	Start	Finish				
				Apr	May	Jun	J
West Region	Generator Phase V (H11078)	30-Jul-11 A	30-Jun-12 A				
A1930	Construction	30-Jul-11 A	30-Jun-12A				
East Region E	Emergency Generator Phase V (H11438)	15-Aug-11 A	01-May-12A				
A1970	Construction	15-Aug-11 A	01-May-12 A				
Central Regio	n Emergency Generator Phase V (H11439)	17-Oct-11 A	29-Jun-12A				
A2010	Construction	17-Oct-11 A	29-Jun-12A			-	
Trinity Homes	Emergency Generator (H11440)	04-Apr-12.A	30-Jan-13				
A2030	Ad	04-Apr-12A		•			
A2040	Award	25-Jun-12 A				•	
A2050	Construction	30-Jul-12*	30-Jan-13				
Royster Basin	Generator and Access Road Project (H09365)	01-Jan-12 A	31-Oct-12				
A4310	Design	01-Jan-12 A	30-May-12 A		1	l,	
A4320	Ad	15-Jul-12*					
A4350	Bid Open	15-Aug-12*					
A4330	Award	01-Sep-12*					
A4340	Construction	01-Sep-12"	31-Oct-12				
Caven Emerge	ency Generator (H11077)	04-Feb-11 A	02-Apr-12 A				
A2190	Construction- Final Completion	04-Feb-11 A	02-Apr-12 A				
Prospect Poin	t Pump Station Access Road	01-Jun-12 A	01-Mar-13				
A4420	Design	01-Jun-12 A	31-Aug-12			-	
A4430	Ad	01-Oct-12*					
A4440	Bid Open	01-Nov-12"					
A4450	Award	15-Nov-12*				1	
A4460	Construction	01-Dec-12*	01-Mar-13				
O-A-1 Routine Op	perating Programs	01-Apr-11 A	30-Jun-12 A		1		
A1340	Finalize Pump Station SOPs	01-Apr-11 A	30-Jun-12A		T		
A1350	Establish Draft SOPs & Job Aides for Regional Pump Stations	22-Apr-11 A	30-Jun-12A			-	
CPE/CPE Treatme	ent Plant Activities	01-Oct-11 A	30-Jun-13				
Hunting Creek So	uth Lagoon Elimination (H11462)	13-Nov-11 A	13-Nov-12				
A2220	Warrantly	13-Nov-11 A	13-Nov-12				
Timberlake Lagoo	on Elimination (H11431)	17-Nov-11 A	16-Nov-12				
A2230	Warranty	17-Nov-11 A	16-Nov-12				2
MFWQTC Second	ary Clarifier Flow Meter Project (H12046)	16-Apr-12A	16-May-13				
A3320	Construction	16-Apr-12 A	16-May-13				
MFWQTC Second	ary Bypass Flume Replacement (H12047)	21-May-12A	28-Oct-12				
A3270	Construction	21-May-12A	28-Oct-12				
CMOM CPE/CCP	FY11 - CL2 and SO2 Flow Pacing (H09360)	01-Oct-11 A	30-Jun-13				
A3440	Design	01-Oct-11 A	20-Aug-12			-	
A3400	Ad	15-Sep-12*					
A3410	Bid Opening	15-Oct-12*				1	
A3430	Award	15-Nov-12*			1		
A3420	Construction	15-Dec-12*	30-Jun-13		1	1	
Shadow Wood W	QTC Splitter Box Replacement	01-Apr-12 A	30-Jun-12 A				
A4470	Design	01-Apr-12.A	31-May-12A		1		
A4480	Construction	01-Jun-12 A	30-Jun-12A				
Hillridge WTP Div	version Project (A13070)	04-Jun-12A	14-Sep-12				
A4490	Ad	04-Jun-12 A				•	
44500	Bid Open	27-Jun-12 A				1 •	






		idar communents ochedule (of April 2012 - of December 2012)							
Activity ID	Ę į	Activity Name	Start	Finish				1 23	
	A4510	Award	15-Aug-12*		Apr	May	Jun	lut	
	A4520	Construction	15-Aug-12*	14-Sep-12					
				3					1011
			4	of 4					
			4						



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				Date: 25-Jul-12
2012				
Aug	Sep	Oct	Nov	Dec
•				
			D	ate Date: 01-Jul-1



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.



6.2 Collection System Unauthorized Discharges

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

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, 2011, through June 30, 2012, and are posted on the Project WIN website. During this quarter, 136 overflows to the Waters of the United States (WUS) have been reported.





Unauthorized Disc	Unauthorized Discharges (Waters of the United States)										
Problem	Dry Weather	Wet Weather	Total								
Blending At Jtown WQTC	0	4	4								
Bypass At WQTC	2	2	4								
Electrical Problems At MSD	1	0	1								
Lack of System Capacity	0	113	113								
Mechanical Failure	1	2	3								
Obstruction-Not Grease or Root	5	0	5								
Power Outage (LG&E)	0	1	1								
Pumped Overflow	0	5	5								
Total	9	127	136								

6.2.2 Overflows to Ground (EXT)

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, 2011, through June 30, 2012.

6.2.3 Overflows to Interior (INT)

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, 2011, through June 30, 2012.

6.2.4 Dry Weather CSOs

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

	Dry Weather CSO - April 1, 2012 - June 30, 2012											
cso	Type of Discharge	Date/Time	Problem	Cause	Volume (Gal)							
CSO020	Dry Weather Discharge	4/4/12 9:19 AM	Electrical	PUMP ONE WENT TO GROUND TRIPPING OUT SUBSTATION	2,225,000							
CSO113	Dry Weather Discharge	6/8/12 9:09 AM	Obstruction	OBSTRUCTION IN MAIN SEWER	365							
CSO200	Dry Weather Discharge	6/21/12 7:15 PM	Obstruction	GRIT AND DEBRIS BUILD UP IN LINE	1,560							





the period of July 1, 2011, through June 30, 2012. The table above summarizes dry weather CSOs that occurred during the quarter. Appendix A-1 includes details on the dry weather overflows that occurred in the quarter.

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.

- CSO022, CSO023 Completed gate automation at the 4th Street Flood Pump Station which will eliminate dry weather discharges when flood pump station is in service.
- CSO019 Completed gate automation and installed a sump pump in the CSO outfall at the 34th Street Flood Pump Station which will eliminate dry weather discharges when flood pump station is in service.

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.

• There were no SSO reduction projects completed during the reporting period.

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 July 1, 2011, through June 30, 2012. 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 With Targets												
	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Total	Target/ qtr	% of Annual Target					
Combined Sewer Area												
Catch Basins Cleaned CSO Area - PM	8,165	7,570	8,479	6,261	30,475	4,460	35%					
CSO Inspections	1,339	1,339	1,334	1,321	5,333	1,272	26%					
Sanitary Sewer Area												
Catch Basins Cleaned SSO Area - PM	3,386	847	2,181	1,987	8,401	1,144	43%					
County Wide												
Sewer Main Inspections MSD Crews (LF)	281,495	202,842	228,679	179,018	892,034	198,000	23%					
Sewer Main Inspections Contractor (LF)	189,165	216,282	101,456	545,877	1,052,780	198,000	69%					
Total Inspections (LF)	331,891	419,124	330,135	724,895	1,806,045	396,000	46%					





Rolling Quarterly GLPM Performance											
	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Total						
Combined Sewer Area											
Catch Basins Cleaned CSO Area - UM	462	168	206	375	1,211						
CSO Debris Removal WO	122	103	129	121	475						
Chemical Root Treatment CSO Area (LF)	0	961	1,887	0	2,848						
Root Cutting CSO Area (LF)	83,868	41,348	41,279	36,496	202,991						
Flushing and Cleaning of Sewer Mains CSO Area (LF)	32,060	15,388	12,920	10,190	70,558						
Sanitary Sewer Area											
Catch Basins Cleaned SSO Area - UM	80	115	51	93	339						
Chemical Root Treatment SSO Area (LF)	0	120,630	114,326	2,853	237,809						
Root Cutting SSO Area (LF)	28,300	43,603	37,836	40,751	150,490						
Flushing and Cleaning of Sewer Mains SSO Area (LF)	32,056	34,710	23,981	31,346	122,093						

6.6 Water Quality Treatment Center Bypasses

6.6.1 Bypass Events

Included in **Appendix A-2** is a report that lists the details of the 4 bypasses that occurred at water quality treatment centers (WQTC) during this reporting period. Bypasses were reported for the following WQTCs:

	Bypass Events - April 1, 2012 - June 30, 2012											
Type of Bypass	Date	ID	Facility Name									
Wet Weather	5/29/12	MSD0247	STARVIEW									
Wet Weather	5/29/12	MSD0202	HITE CREEK									
Dry Weather	6/2/12	MSD0403	CHENOWETH RUN									
Dry Weather	6/25/12	MSD0255	JEFFERSONTOWN									

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 between April 1, 2012, and June 30, 2012.





Bypass Analysis – April 1	1, 2012, to June 30, 2012				
Bypass Description	Bypass Corrective Actions				
Capacity					
 <u>Hite Creek WQTC (Hansen Discharge WO: 1496224)</u>: Bypass (Capacity) was reported at this WQTC on May 29, 2012. Increased plant flow caused two gallons of foam to overflow the influent channel. Plant flows were more than three times the design flow during the rain event on May 29, 2012. 	 MSD will install a defoaming application point upstream of this channel. If operational needs for resources allow, MSD will haul wastewater from this WQTC during significant rain events. 				
External Power failures (LGE Related-PWR)					
 <u>Starview WQTC (Hansen Discharge WO:</u> <u>1496181):</u> Bypass (Power Failure) was reported at this WQTC on May 29, 2012. A power failure caused flow to bypass the influent pump station during the rain event of May 29, 2012. 	 MSD review alternative power sources for this WQTC as resources allow. 				
- <u>Jeffersontown WQTC (Hansen Discharge</u> <u>WO: 1508255):</u> Bypass (Power Failure) was reported at this WQTC on June 25, 2012. A momentary power failure caused flow to bypass UV treatment prior to the backup power generator starting up during the rain event of June 25, 2012.	 MSD has alternative power generation installed at this WQTC. WQTC to be eliminated prior to December 31, 2015. 				
Facility Failure (Mechanical -MCH, Electrical - ELE, Structural-SRT)					
 No bypasses of this category occurred during the reporting period. 	- N/A				
Human Error (OPN)					
- <u>Chenoweth Run WQTC (Hansen</u> <u>Discharge WO: 1500585):</u> Bypass (Human Error) was reported at this WQTC on June 2, 2012. A Contractor working on site inadvertently cut a water line to the WQTC, temporarily disrupting disinfection.	- MSD entered a vendor complaint form on the Contractor.				





Utility Damage	
 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:

- Conducted three inspection routes as described in Section 2.2 Overflow Management and Field Documentation.
- Inspections did not identify any overflows at the Jeffersontown Siphon during the reporting period.







- Overflows were identified at manhole 28173 April 1, 2012, May 13, 2012 and May 29, 2012 as a result of inspections of manholes within 2,000 feet of the Jeffersontown head works.
- Four blending events occurred at the Jeffersontown WQTC during this quarter. Included in Appendix A-3 is a report that lists the details from the blending events. The following charts show plant flow at the Jeffersontown WQTC when blending began. The data for each event indicates that MSD met the protocols outlined in Jeffersontown Wastewater Treatment Plant Process Control Program for the quarterly reporting period.

















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
MORRIS FORMAN	KY0022411	147 BUCHANAN ST	04/04/12 9:19: AM	04/04/12 10:03 AM	2,225,000 GAL	Sewer Manhole	CSO020	STREAM	OHIO RIVER	PUMP ONE WENT TO GROUND TRIPPING OUT SUBSTATION	ELECTRICAL PROBLEMS AT MSD	1462563	NONE, OUTLET SUBMERGED IN THE OHIO RIVER.	ISOLATED PUMP ONE AND RESET STATION.
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	06/08/12 9:09: AM	06/08/12 10:22 AM	365 GAL	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE OR ROOT	1502459	NO CLEAN UP PERFORMED- PIPE DISCHARGES DIRECTLY INTO STREAM	FLUSHED/VACTORED THE OBSTRUCTION/DEBRIS FROM SEWER
MORRIS FORMAN	KY0022411	1397 S 3RD ST	06/21/12 7:15: PM	06/22/12 08:15 AM	1,560 GAL	Sewer Manhole	CSO200	STREAM	OHIO RIVER	GRIT AND DEBRIS BUILD UP IN LINE	OBSTRUCTION-NOT GREASE OR ROOT	1507021	NO CLEAN UP PERFORMED - DISCHARGE INTO THE CENTRAL RELIEF DRAIN	WORK ORDER 1507059 - VACTOR DRAIN

APPENDIX A-1 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES APRIL 1, 2012 THROUGH JUNE 30, 2012



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
HITE CREEK	KY0022420	5500 HITT RD	05/29/12 11:15: AM	05/29/12 11:20 AM	2 GAL	Sewer Treatment Plant	MSD0202	STREAM	HITE CREEK	RAIN EVENT CAUSED SUDDEN PLANT FLOW INCREASE	BYPASS AT WQTC	1496224	MSD CLEANED AND SANITIZED AREA	MSD MONITORED STATION TO PREVENT FURTHER OVERFLOW OF SCUM
STARVIEW	KY0031712	423 BERMUDA WAY	05/29/12 10:00: AM	05/29/12 10:15 AM	375 GAL	Sewer Treatment Plant	MSD0247	STREAM	CHENOWETH RUN	POWER OUTAGE DUE TO STORM EVENT	BYPASS AT WQTC	1496181	MSD CLEANED & SANITIZED THE AREA	HOOKED UP GENERATOR TO STOP OVERFLOW
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	06/25/12 12:58: AM	06/25/12 01:08 AM	10,633 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	POWER BLIP AT THE STATION	BYPASS AT WQTC	1508255	NO CLEAN UP SUBMERGED DISCHARGE PIPE	RESET AND PUT SYSTEMS ON LINE
CHENOWETH RUN	KY0042226	14000 BECKLEY TRCE	06/02/12 1:15: PM	06/02/12 02:30 PM	14,198 GAL	Sewer Treatment Plant	MSD0403	GROUND	CHENOWETH RUN	CONTRATOR CUT WATER LINE TO PLANT	BYPASS AT WQTC	1500585	NO CLEAN UP REQUIRED ONLY DECHLORINATION BYPASS AT PLANT	FEEDING POWDER CHLORINE TO DISINFECT UNTILL REPAIRS ARE MADE. NO DECHLORINATION.

APPENDIX A-2 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES APRIL 1, 2012 THROUGH JUNE 30, 2012



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	04/01/12 10:47: AM	04/02/12 01:20 AM	1,345,076 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1460013 PIPE SUBMERGED NO CLEANUP REQUIRED	NEGOTATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	05/13/12 8:06: AM	05/14/12 09:17 AM	4,152,668 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1487852 PIPE SUBMERGED NO CLEANUP REQUIRED	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	05/29/12 9:54: AM	05/29/12 06:30 PM	839,349 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1496094 PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	05/31/12 10:57: PM	06/01/12 06:02 PM	899,028 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN WQTC	1498717 PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

APPENDIX A-3 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES APRIL 1, 2012 THROUGH JUNE 30, 2012



Appendix B – CSO Flow Monitoring Data



CSO015 (04/01/12 to 07/01/12)

- Southwestern Gate PS.Flow Under Gates Total (MGD) 🔽 ~





CSO016 (04/01/12 to 07/01/12) (MGD)

- CSO016 Flow (MGD)

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TR04_Morris Forman WQTC.Rain (in)

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CSO018 (04/01/12 to 07/01/12)



CSO019 (04/01/12 to 07/01/12)

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CSO020 (04/01/12 to 07/01/12)

Flow (MGD) TR05_Beargrass PS.Rain (in)





CSO029 (04/01/12 to 07/01/12)



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CSO050 (04/01/12 to 07/01/12)

Flow 1 (MGD)

TR05_Beargrass PS.Rain (in)

CSO053 (04/01/12 to 07/01/12)

Flow 1 (MGD)

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TR05_Beargrass PS.Rain (in)



CSO054 (04/01/12 to 07/01/12)

TR05_Beargrass PS.Rain (in)

Flow 1 (MGD)





CSO055 (04/01/12 to 07/01/12)

CSO058 (04/01/12 to 07/01/12)

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

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CSO084 (04/01/12 to 07/01/12)

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



CSO088 (04/01/12 to 07/01/12)

M1 Flow (MGD)

TR05_Beargrass PS.Rain (in)



CSO091 (04/01/12 to 07/01/12)

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





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





CSO097 (04/01/12 to 07/01/12)



CSO105 (04/01/12 to 07/01/12)

TR04_Morris Forman WQTC.Rain (in)

Flow 1 (MGD)



CSO106 (04/01/12 to 07/01/12)

- Flow 1 (MGD)

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TR12_Nightingale PS.Rain (in)


CSO110 (04/01/12 to 07/01/12) (MGD)

Flow 1 (MGD)

TR12_Nightingale PS.Rain (in)



CSO117 (04/01/12 to 07/01/12)

Flow 1 (MGD)



CSO118 (04/01/12 to 07/01/12)

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



CSO120 (04/01/12 to 07/01/12)

Flow 1 (MGD)

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CSO121 (04/01/12 to 07/01/12) ~

Flow 1 (MGD)

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CSO125 (04/01/12 to 07/01/12)

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Flow 1 (MGD)



CSO126 (04/01/12 to 07/01/12)

Flow (MGD) CSO126_Hist1.Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



CSO127 (04/01/12 to 07/01/12)

Flow 1 (MGD)



CSO130 (04/01/12 to 07/01/12)

Flow 1 (MGD)





CSO132 (04/01/12 to 07/01/12)

CSO137 (04/01/12 to 07/01/12)

Flow 1 (MGD)



CSO140 (04/01/12 to 07/01/12)

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





CSO141 (04/01/12 to 07/01/12)



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







Flow 1 (MGD) **V**





Flow 1 (MGD)

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CSO151 (04/01/12 to 07/01/12)

CSO152 (04/01/12 to 07/01/12)

CSO152_Hist.Flow 1 (MGD) TR12_Nightingale PS.Rain (in)

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CSO153 (04/01/12 to 07/01/12)

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CSO154 (04/01/12 to 07/01/12) (MGD) TR05_Bear

Flow 1 (MGD)

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CSO155 (04/01/12 to 07/01/12)

CSO166 (04/01/12 to 07/01/12) (MGD) TR05_Bear

Flow 1 (MGD)



CSO167 (04/01/12 to 07/01/12)

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TR05_Beargrass PS.Rain (in)



CSO174 (04/01/12 to 07/01/12)

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

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Flow (MGD)

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CSO180 (04/01/12 to 07/01/12)

- Flow 1 (MGD)

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TR12_Nightingale PS.Rain (in)

CSO182 (04/01/12 to 07/01/12)

Flow 1 (MGD)



CSO185_CSO184 (04/01/12 to 07/01/12)





Flow 1 (MGD)

TR04_Morris Forman WQTC.Rain (in)



CSO190 (04/01/12 to 07/01/12)

Flow 1 (MGD)





CSO191 (04/01/12 to 07/01/12)

- Flow (MGD)

TR04_Morris Forman WQTC.Rain (in)



Flow (MGD)





Flow (MGD) TR05_Beargrass PS.Rain (in)





Flow (MGD)





CSO199 (04/01/12 to 07/01/12)


CSO200 (04/01/12 to 07/01/12)

CSO201 (04/01/12 to 07/01/12)

TR05_Beargrass PS.Rain (in)

Flow (MGD)





CSO202 (04/01/12 to 07/01/12)

Flow (MGD)



CSO205 (04/01/12 to 07/01/12)

Flow (MGD)

TR05_Beargrass PS.Rain (in)

(MGD) TR05_Bear

Flow 1 (MGD)

TR05_Beargrass PS.Rain (in)







CSO211 (04/01/12 to 07/01/12)

Flow (MGD)

TR04_Morris Forman WQTC.Rain (in)



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
СМОМ	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	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
ESE	Food Service Establishment
FY	Fiscal Year
GCE	Grease Control Equipment
GIS	Geographical Information System
GLPM	Gravity Line Preventive Maintenance
	Human Machine Interface
	Infrastructure & Flood Protection (MSD Division)
	Intercentor Condition Assessment
	Identification
	Inflow and Infiltration
IMS	Information Management System
	Integrated Overflow Abstement Plan
	Integrated Overnow Abatement Flam
IJJUF	Internition Technology
	Industrial Wests Department
	Industrial Waste Department
JCP3	Jenerson County Public Schools
KDEP	Kentucky Department of Environmental Protection
KPDE5	Kentucky Politicant Discharge Elimination System
	Kenlucky
	Lateral Extension
	Low Impact Development
	Laboratory Information Management System
	Long Term Control Plan
	Louig Territ Control Fide Louisville and Jofferson County Information Concertium
	Louisville and Jenerson County Information Consolitum
	Main Diversion Structure
INIER	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
МО	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