

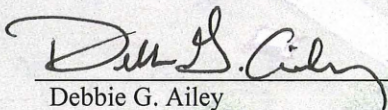


# Phase 1 CAP/ER

## 2012 Annual Report

Submitted to EPA July 27, 2012

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

  
Debbie G. Ailey

7/27/12  
Date



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**Annual CAP/ER Report**  
**July 1, 2012 - June 30, 2013**

**First Creek Projects**

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
1-19	Edgewood Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1620 Edgewood Avenue.	FY 09/10	FY 10/11	Replaced 519 ft of 8" sewer, 179 ft of 12" sewer; rehabilitated 22,300 ft of 8" sewer, and 60 ft of 12" sewer using CIPP and pipebursting. Project also included rehabilitation of 662 vertical feet and replacement of 10 of manholes.	FY 11/12	COMPLETE
1-21	College Park Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 106 College Park Lane.	FY 10/11	FY 11/12	Replaced approximately 446 ft of 8" PVC, six manholes, and rehabilitated 1,581 ft of 8" sewer using pipebursting.	1/31/2013	COMPLETE
1-22	E. Jackson Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 400 E. Jackson Avenue	FY 11/12	FY 12/13			IN DESIGN
1-23	Oglewood Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1307 Oglewood Avenue.	FY 11/12	FY 12/13	The summary above for the Edgewood Drive Rehabilitation Project includes the Oglewood Avenue Rehabilitation Project since those projects were combined.		COMPLETE

**Second Creek Projects**

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
2-2	Lower Second Creek Replacement/Rehabilitation at Woodland	Replace approximately 2,500 lf of existing sewer with 30-in sewer and rehabilitate approximately 1,200 lf of trunk line between replacement segments.	FY 06/07	FY 07/08	Estimated total quantities: 1588 ft gravity sewer replaced; 11 new MHs installed to date	1/31/2013	Construction has been completed on the lower trunkline work. Upper portion is currently under construction.
2-11	Burnside Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 2523 Burnside Street	FY 12/13	FY 12/13	Replaced 517 ft of 8" sewer and 1651 ft of 12" sewer using pipe bursting. Six manholes were replaced and 3 were rehabbed.		COMPLETE
SCR-1	Central Avenue Pike Project	Find and fix work to identify and address cause of overflow in the vicinity of 4105 Central Avenue Pike.	FY 2013	FY 2015			IN DESIGN

### Third Creek Projects

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
3-6	Interstate 40 and Middlebrook Pike Trunk Replacement Project	Replace approximately 400 lf of existing sewer with 15-in sewer, 750 lf with 24-in sewer, 2,000 lf with 30-in sewer, and 7,000 lf with 36-in sewer.	FY 08/09	FY 09/10		FY 12/13	Phase 1 is complete, phase 2 is under construction, and phase 3 is currently in bid phase
3-7	Neyland Drive Trunk Replacement Project	Replace approximately 5,900 lf of existing sewer with 48-in sewer	FY 08/09	FY 10/11	Sliplined 685 lf of existing trunk sewer, replaced 4,600 lf of 48" trunk sewer and replaced 34 manholes.	FY 12/13	COMPLETE
3-16	Painter Avenue Rehabilitation Project <sup>2</sup>	Find and fix work in mini-basins 28B1 and 34A2	FY 10/11	FY 11/12	Pipeburst approximately 17,800 ft of existing sewer, rehabilitated 550 ft and replaced/rehabbed 61 manholes.		COMPLETE
3-21	Deerfield Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 4428 Deerfield Road.	FY 10/11	FY 11/12	Pipeburst approximately 600 ft of existing gravity sewer and replaced two manholes.		COMPLETE
3-20	Citico Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 600 and 605 Citico Street.	FY 11/12	FY 12/13	Projects were combined. Replaced approximately 22,500 ft of 8" sewer and 28 manholes		COMPLETE
3-23	Hillvale Circle Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of the SSO at Hillvale Circle.	FY 12/13	FY 12/13			COMPLETE
3-24	Montgomery Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 3624 Montgomery Avenue.	FY 11/12	FY 12/13			COMPLETE
3-27	Montgomery Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1811 and 1816 Sterchi Street and 3608 and 3618 Montgomery Avenue.	FY 11/12	FY 12/13			COMPLETE
3-29	Highland Hills Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 409, 411, and 419 Highland Hills Road.	FY 12/13	FY 12/13			COMPLETE

<sup>2</sup>The original scope of this project called for replacement of 2,200 lf of existing 42" sewer with 48" and 54" sewer to correct slight surcharging during a two-year rain event (no overflows currently occur and none are predicted). Subsequent modeling and analysis showed that rehabilitation of the collector sewer upstream will be more effective in reducing peak flows to this trunk sewer. This approach will prevent digging and replacing the trunk sewer along Third Creek that extends under a four-lane road and through a wetland area. KUB received approval to change the scope of the project to rehabilitation (find and fix) of collection system in mini-basins 28B1 and 34A2. The project will be completed in the same time frame as approved for the original Painter Avenue trunk project but will now be referred to as 3-16 Painter Avenue Rehabilitation Project.

#### Fourth Creek Projects

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
4-4	Northshore Drive Trunk Replacement Project	Replace approximately 3,600 lf of existing sewer with 36-in sewer (IAP 2).	FY 07/08	FY 08/09	Installed approximately 3,375 ft of 36" trunk sewer, 260 ft of smaller diameter trunk sewer, and replaced 29 manholes.	FY 11/12	COMPLETE
4-19	Northshore Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5501 and 6410 Northshore Drive and Lyons Bend Road.	FY 11/12	FY 12/13	Raised manholes 6, 7, and 8 to create additional storage in the trunkline upstream of the Fourth Creek WWTP.		COMPLETE
4-28	Queensridge (Queensbury) Pump Station Upgrade Project	Upsize Queensridge Pump Station	FY 10/11	FY 10/11	The terminal manhole for the Queensbury force main has been replaced and the piping configuration for this manhole was also adjusted to lessen pressure restrictions allowing access to the force main for cleaning. Both pumps were also replaced.	FY 11/12	COMPLETE
4TH-2	Ten Mile Pump Station Removal	Decommission Ten Mile Pump Station to eliminate flows from adjacent utility districts while retaining current KUB connections	FY 2013	FY 2015			Overflow will be addressed through construction of a new pump station by First Utility District. Once their pump station is complete, KUB will shut down the existing station.

#### South Knoxville / Knob Creek Projects

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
S-21	Alpine Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 3609 Alpine Avenue.	FY 11/12	FY 12/13			UNDER CONSTRUCTION
S-26	Trunk Sewer Replacement Project in Sub-basin 40F1	Replace 700 lf of existing sewer with 18" sewer.	FY 10/11	FY 11/12	Replaced 704 ft of 8" sewer and six manholes. Five laterals were reinstated.		COMPLETE
STH-1	Goldfinch Avenue Project	Find and fix work to identify and address cause of overflow in the vicinity of 820 Goldfinch Avenue.	FY 2012	FY 2013			UNDER CONSTRUCTION

### Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
L-2	Boyd's Bridge Pike and Holston Hills Trunk Replacement	Replace approximately 4,190 lf of existing 10-in, 500 lf of 12-in, and 330 lf of 15-in pipe.	FY 10/11	FY 11/12	Replaced 4,456 feet of trunkline and 31 manholes.		COMPLETE
L-4	Asheville Highway Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 5411 Asheville Highway.	FY 10/11	FY 11/12	Rehabilitated 1,560 ft of sewer mains and 12 manholes.		COMPLETE
L-6	Holston Hills Road Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 4716 Holston Hills Road.	FY 11/12	FY 12/13	Rehabilitated 1,356 ft of sewer mains.		COMPLETE
L-7	Magnolia Avenue Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3301 Magnolia Avenue.	FY 11/12	FY 12/13			UNDER CONSTRUCTION
L-8	McDonald Drive Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3415 McDonald Drive.	FY 10/11	FY 11/12	Rehabilitated 285 ft of sewer main, replaced 316 ft of sewer main and two manholes.		COMPLETE
EB-2	Strawberry Plains Pike Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 8616, 8714, and 9005 Strawberry Plains Pike.	FY 10/11	FY 11/12	Replaced approximately 750 ft of 8" PVC and three manholes.		COMPLETE

### Williams Creek Projects

Project ID	Project Name	Project Description <sup>1</sup>	Start Date	End Date Unless Revised	Units Installed/Rehabilitated	Approved Completion Date as Revised	Status
W-5	Groner Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1114 Groner Road.	FY 11/12	FY 12/13			UNDER CONSTRUCTION

<sup>1</sup>Approximate sizing and extents of each project is given for planning level purposes. The exact sizing and extent of each project will be determined during preliminary design. Other modifications to the projects may occur during preliminary design. For example, it may be determined that parallel relief sewers would be more cost effective than replacement sewers for some projects. Any modifications will be explained in the quarterly updates submitted after approval of the Phase 1 CAP/ER.