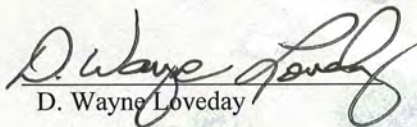


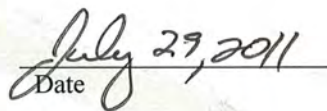
Phase 1 CAP/ER

2011 Annual Report

Submitted to EPA July 29, 2011

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.


D. Wayne Loveday


Date



**Annual CAP/ER Report
July 1, 2011 - June 30, 2012**

First Creek Projects

Project ID	Project Name	Project Description ¹	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		FY 11/12	UNDER CONSTRUCTION Scope of work was expanded after investigations showed that additional sewer lines and manholes needed to be rehabilitated. This project was combined with 1-23 Oglewood Avenue Rehabilitation Project due to the proximity of the SSO locations to be addressed by both projects. Because Edgewood covers a large area and Oglewood is fairly small and located within two blocks of Edgewood, KUB chose to take advantage of the economy of scale for construction and design work by combining the two projects into one.
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			IN DESIGN
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			PRELIMINARY ENGINEERING
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			UNDER CONSTRUCTION 1-19 Edgewood Drive Rehabilitation Project has been combined with this project. Both will be completed by October 2011.
1-26	Cherry Street Rehabilitation Project	Find and fix work to identify and address cause of overflow at 1918 Cherry Street.	FY 11/12	FY 12/13	Upsized approximately 1,150 ft of sewer trunklines and replaced 2 MHs and rehabbed 2 MHs		COMPLETE

Second Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	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	FY 11/12	Construction has been completed on the lower trunkline work. Upper portion is currently under construction and will require permitting from two different railroad owners. End date was initially extended to FY 08/09 and later until FY 11/12 due to new alignment for trunk sewer construction which required easement acquisition and railroad permitting.
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
2-15	1000 Block Elm Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1025 Elm Street	FY 11/12	FY 11/12	Replaced 308 ft 8" and 9 MHs, CIPP 1400 ft 8", Rehabbed 3 MHs		COMPLETE
2-16	1600 Block Elm Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1611 Elm Street and 801 West Oldham Avenue	FY 11/12	FY 11/12	Pipe burst 285 ft of existing 8" sewer and replaced 2 MHs		COMPLETE
2-19	Cumberland Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1000 Phillip Fulmer Way, 1509 Cumberland Avenue, and Seventeenth Street and White Avenue	FY 12/13	FY 12/13	Replaced 1448 ft 8" and 10 MHs, CIPP 525 ft 8"		COMPLETE
2-21	Morelia Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 120 E. Morelia Avenue	FY 11/12	FY 11/12	Replaced 382 ft 8" and 2 MHs, CIPP 2375 ft 8", Rehabbed 4 MHs		COMPLETE

Third Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	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	IN DESIGN - Constructability issues and permitting require that the project completion date be extended until FY 12/13. Project will require coordination with future TDOT road improvement project and extensive railroad permitting, environmental permitting, and property acquisition.
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		Requested extension to FY 12/13	Original scope has changed from replacement work along Neyland Drive to work on the existing trunk south of Tyson Park extending northwest along Third Creek. Construction has begun at the Third Creek siphon and will continue up to Tyson Park. Project is in bid phase. Constructability issues, property acquisitions, and permitting for this large diameter project required that KUB request to extend the project completion date until FY 12/13.
3-14	McKamey Road Interconnection Project	Project will involve constructing a hydraulic connection between the upper and lower McKamey Road sewers.	FY 10/11	FY 10/11	Analysis that occurred during preliminary engineering for this project determined that it had been adequately addressed by previous construction work.		REMOVED
3-15	Ball Camp Pike Improvement Project	Replace approximately 600 lf of existing sewer with 12" sewer.	FY 10/11	FY 11/12	Analysis that occurred during preliminary engineering for this project determined that it had been adequately addressed by previous construction work.		REMOVED
3-16	Painter Avenue Rehabilitation Project ²	Find and fix work in mini-basins 28B1 and 34A2	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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			IN DESIGN
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION

Fourth Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	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		FY 11/12	UNDER CONSTRUCTION
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			UNDER CONSTRUCTION
4-21	Black Bear Road Project	Find and fix work to identify and address cause of overflow in the vicinity of 2313 Black Bear Road.	FY 11/12	FY 12/13	Replaced 261 ft 8" and rehabbed 1 MH		COMPLETE
4-23	5205 Bent River Blvd Project	Find and fix work to identify and address cause of overflow in the vicinity of 5205 Bent River Boulevard.	FY 10/11	FY 11/12	Replaced 6 ARV's, flushed the low pressure force main, and replaced the grinder pump		COMPLETE
4-24	Kerri Way Project	Find and fix work to identify and address cause of overflow in the vicinity of 7505 Kerri Way.	FY 10/11	FY 11/12	Replaced 439 ft 8" and 5 MHs, CIPP 92 ft 8"		COMPLETE
4-25	Lonas Drive Project	Find and fix work to identify and address cause of overflow in the vicinity of 4930 Lonas Drive.	FY 10/11	FY 11/12	Replaced 326 ft 8" and 5 MHs, CIPP 4688 ft 8" and rehabbed 9 MHs		COMPLETE
4-26	Midpark Drive Project	Find and fix work to identify and address cause of overflow in the vicinity of 1721 Midpark and Midpark and Beard Drive.	FY 10/11	FY 11/12	Replaced 2 MHs, CIPP 440 ft 8" and rehabbed 3 MHs		COMPLETE
4-27	Southfork Project	Find and fix work to identify cause of overflow in the vicinity of 2501 Miss Ellie Drive (private).	FY 11/12	FY 12/13	Replaced 88 ft 8" and 2 MHs CIPP 140 ft 8"		COMPLETE
4-28	Queensridge (Queensbury) Pump Station Upgrade Project	Upsize Queensridge Pump Station	FY 10/11	FY 10/11		Requested extension to FY 11/12	The terminal manhole for the Queensbury force main has been replaced and the piping configuration for this manhole was adjusted to lessen pressure restrictions allowing access to the force main for cleaning. Due to the additional work on this manhole, this project requires an extension to FY 11/12 to complete the pump station upgrade.
4-31	Kingston Pike @ Gallaher View Project	Find and fix work to identify and address cause of overflow in the vicinity of 8401 and 8403 Kingston Pike.	FY 11/12	FY 12/13	Replaced 1 MH, CIPP 1068 ft 8", Rehabbed 6 MHs		COMPLETE

South Knoxville / Knob Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	Approved Completion Date as Revised	Status
S-15	Trunk Replacement in Sub-basin 40A2 Project	Replace Approximately 1,932 lf of existing 12" sewer with 24" sewer; replace approximately 810 lf of existing 12" sewer with 30" sewer; and replace approximately 1,326 lf of existing 24" sewer with 30" sewer.	FY 10/11	FY 11/12	Replaced 3411 ft of sewer and 16 MHS		COMPLETE
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			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING
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			PRELIMINARY ENGINEERING

Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	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			UNDER CONSTRUCTION
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			IN DESIGN
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			AHEAD OF SCHEDULE - IN DESIGN
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			AHEAD OF SCHEDULE - IN DESIGN
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			IN DESIGN
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			PRELIMINARY ENGINEERING

Williams Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date Unless Revised	Units Installed/Rehab	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			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING

¹Approximate 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.

²The 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 is requesting changing 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. 004890