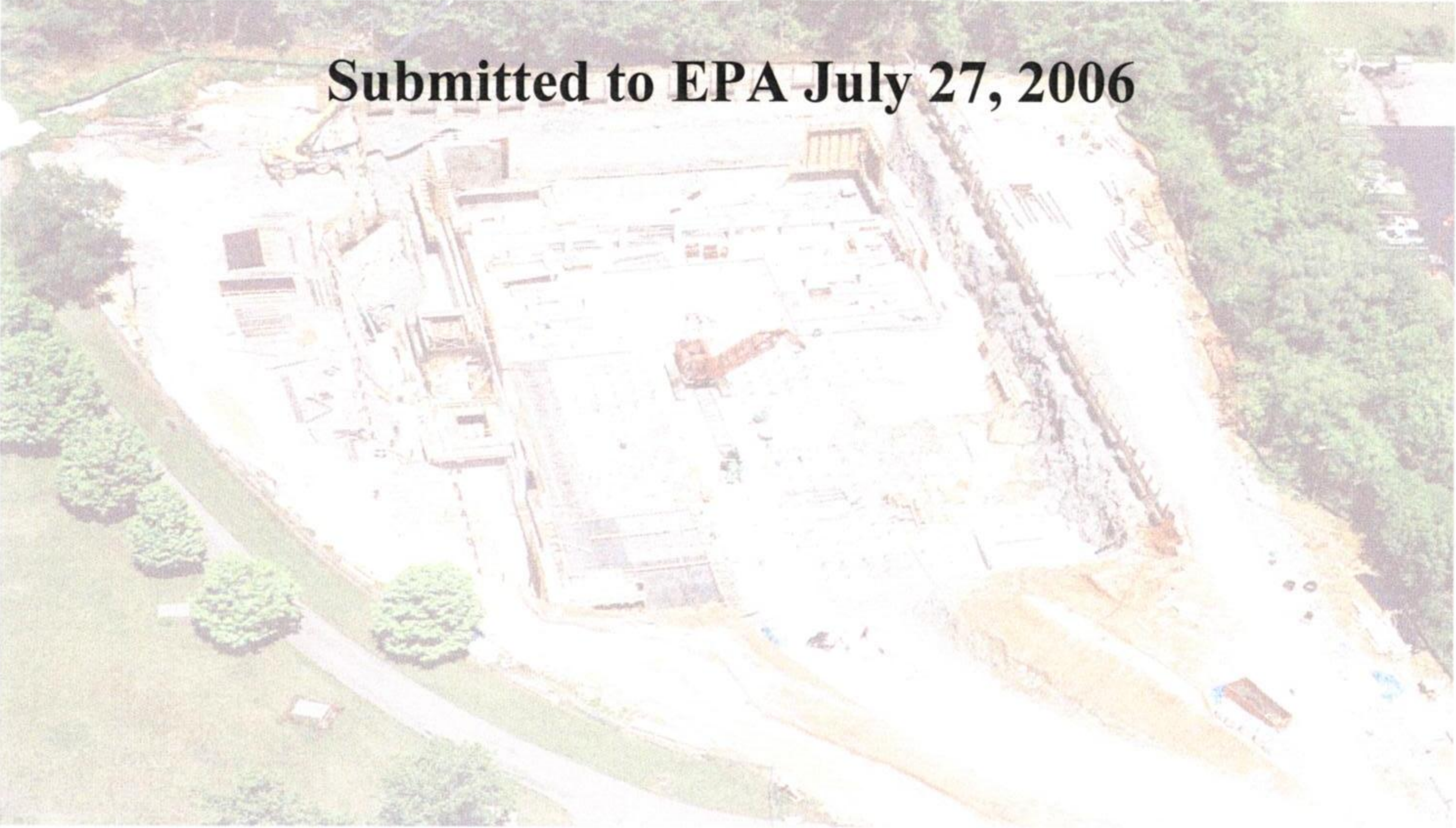




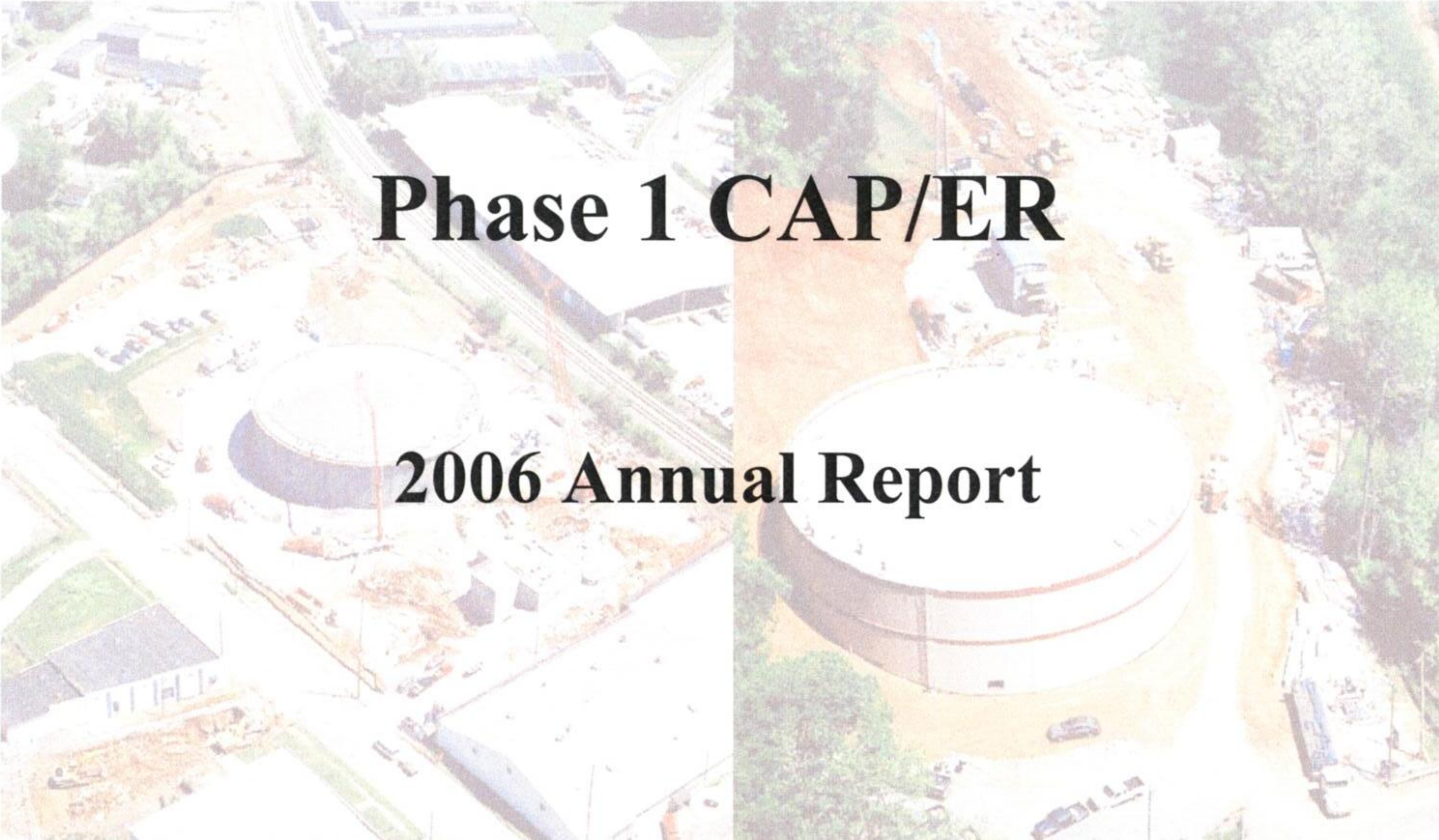
Phase 1 CAP/ER

2006 Annual Report

Submitted to EPA July 27, 2006



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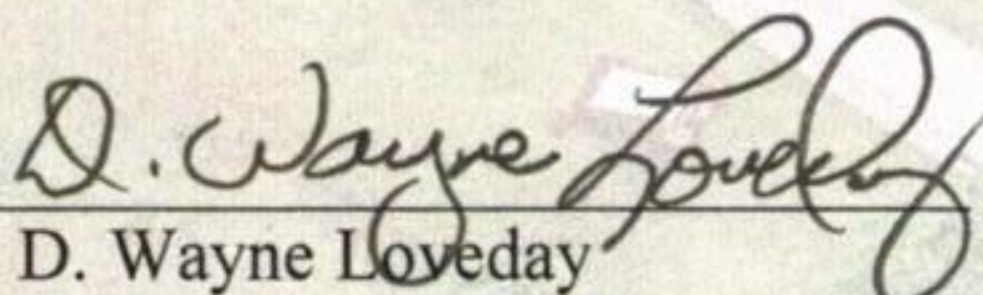


Phase 1 CAP/ER

2006 Annual Report

Submitted to EPA July 27, 2006

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

7.27.06
Date



Executive Summary

On February 11, 2005, the Knoxville Utilities Board (KUB) entered into a Consent Decree with the United States, the State of Tennessee, the Tennessee Clean Water Network, and the City of Knoxville. The following Annual Corrective Action Plan / Engineering (CAP/ER) Report is submitted to fulfill the reporting requirement described in Section VII. C. 4. of the Consent Decree.

Consent Decree language, pages 24-25: *“On an annual basis, beginning on July 30, 2006, KUB shall submit a report which shall include specific dates for beginning and completing all work identified by KUB in both the Phase 1 CAP/ER and Phase 2 CAP/ER for the upcoming twelve (12) month period (“Annual CAP/ER Report”). All Annual CAP/ER Reports shall be placed in the PDR for public review and information, but shall not be subject to the Public Review Requirement of Section VI.A.2. However, KUB shall receive questions and comments from the public for KUB’s review for a period of twenty (20) Days following placement in the PDR.”*

The work planned for the upcoming twelve (12) month period is detailed in the following table.

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

First Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehabilitated	Revised Completion Date	Status
1-1	Upper First Creek Collector Project (Mini-basin 1A1, 2A2, and 3D1)	Find and fix work to identify and address cause of overflow in the vicinity of 4811 Beverly Road, 4144 Oakland Drive, and 5511 Dogwood Road.	FY 05/06	FY 06/07		FY 07/08	Work has been re-prioritized to allow earlier completion of Project 1-6. Preliminary engineering has begun.
1-2	Lower First Creek Collector Project (Mini-basin 8B2)	Find and fix work to identify and address cause of overflow in the vicinity of 2412, 2514, 2528, 2806, 2808, 2900, 2528, 2700, and 2808 Tecoma Drive and 3501 Whittle Springs Road.	FY 05/06	FY 07/08			IN DESIGN; Construction contract will be awarded in Fall 2006.
1-3	First Creek Storage Tank	Design and construction of the upper storage tank and lower storage tank.	FY 04/05	FY 07/08			UNDER CONSTRUCTION
1-4	Lower Fountain City Pipe Replacement	Replace approximately 2,293 lf existing sewer with 36-in sewer.	FY 05/06	FY 07/08			IN DESIGN
1-5	Upper Fountain City Pipe Replacement	Replace approximately 1,053 lf of existing sewer with 12-in, 1,856 lf with 24-in, and 595 lf with 27-in pipe.	FY 05/06	FY 07/08			IN DESIGN
1-6	Sewershed 08A1 Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of Broadway and Powers Street, and Broadway and Ridgeway Lane	FY 04/05	FY 07/08	Estimated total quantities: 3,251 lf gravity sewer replaced; 40 new MHs installed; 22,000 lf CIPP installed; 270 vf MH rehab; 210 private lateral reinstated	FY 06/07	UNDER CONSTRUCTION
1-20	Vine Middle School Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 214 Bertrand Street.	FY 05/06	FY 06/07		FY 07/08	Design is complete. Construction has been re-prioritized to coincide with 2007 summer break for Vine Middle School
1-25 (IAP 6)	Sub-basins 3&4 Rehab	Rehabilitation to reduce R to 2% in sewersheds 03B1, 03B2, and 04B1.	FY 05/06	FY 06/07	Estimated total quantities: 1,750 lf gravity sewer replaced; 45 new MHs installed; 54,500 lf CIPP installed; 1160 vf MH rehab; 550 private lateral reinstated		Original scope is substantially complete. Some work continues to replace additional lower laterals added to the scope of the project.

0002091

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

Second Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
2-1	Lower Second Creek Replacement/Rehabilitation at I40/I275 Junction	Replace approximately 1,300 lf of existing sewer with 30-in sewer, replace approximately 3100 lf of existing sewer with 36-in sewer, replace approximately 1200 lf of existing sewer with 42-in sewer, and rehabilitate approximately 2,400 lf of trunk line between replacement segments.	FY 06/07	FY 08/09			Engineering work will begin in Fall 2006.
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			Engineering work will begin in Fall 2006.
2-3	Second Creek Rehabilitation of Sewershed 23E1 Near Woodland and Central	Rehabilitation in sewershed 23E1 to reduce R value to 2%	FY 05/06	FY 06/07			UNDER CONSTRUCTION
2-4	Dutch Valley Collector Rehabilitation (Sewershed 10B1)	Rehabilitate 10-in collection system piping in sewershed 10B1.	FY 05/06	FY 06/07			IN DESIGN; Construction to begin in October 2006.
2-5	Rickard and Wilson Collector Rehabilitation (Sewershed 10C1)	Rehabilitate 10-in collection system piping in sewershed 10C1.	FY 05/06	FY 06/07			IN DESIGN; Construction to begin in October 2006.

0002092

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

Third Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
3-2	Subbasin 11 Rehabilitation Project (approximately 25% rehabilitation)	Find and fix work to identify and address cause of overflow in the vicinity of 5815 Wooded Acres Drive, 6512 Shaftsbury Drive, and 6525 Tewksbury Drive.	FY 04/05	FY 07/08			Preliminary design is complete. Rehab project is now scheduled to begin in FY 07/08. Efforts are being focused in SB 9 due to higher R-value.
3-3	Subbasin 9 Rehabilitation	Rehabilitation to reduce R to 2% in sewersheds 09A1, 09A2, 09A4, and 09D1.	FY 04/05	FY 07/08			UNDER CONSTRUCTION
3-4	Upper McKamey and Third Creek Road Replacement	Replace approximately 3,141 lf of existing sewer with 36-in sewer and approximately 1500 lf with 15-in sewer.	FY 05/06	FY 07/08			IN DESIGN
3-5	Third Creek Storage Facility	Design and construction of a storage facility in Third Creek Basin (approximately 4.5 MG storage on Land Parcel # 093GB006)	FY 05/06	FY 07/08			IN DESIGN
3-11	Sutherland Avenue Collector Rehabilitation (Sewershed 28B1)	Find and fix work to identify and address cause of overflow in the vicinity of 3110, 3204, and 3208 Sutherland Avenue, 409 North Bellemeade Avenue, Sutherland Avenue and North Bellemeade Avenue, and 5824 Stoneleigh Road.	FY 05/06	FY 07/08			UNDER CONSTRUCTION; Project accelerated to coordinate with road work being performed by COK.

0002093

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

Fourth Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
4-17	Storage Tank	Storage upstream of Walker Springs Pump Station.	FY 04/05	FY 06/07			UNDER CONSTRUCTION
4-18	Papermill Phases I, II, and III	Replace approximately 3,500 lf of existing sewer with 15-in sewer and approximately 1,000 lf with 36-in sewer.	FY 04/05	FY 06/07	3,483 lf gravity sewer replaced; 16 new MHs installed; 10 private lateral reinstated		UNDER CONSTRUCTION; Papermill Drive Phase I was completed 2004 and Papermill Drive Phase III was completed on February 15, 2005. Phase II construction has been hindered by highway construction in area of project and by easement acquisition.

0002094

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

South Knoxville / Knob Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
S-1	Ginnbrook Pump Station Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of Ginnbrook Pump Station	FY 06/07	FY 06/07			IN DESIGN; Project revised to an upgrade of the existing pump station.
S-2	Goose Creek Trunk Sewer Replacement and Siphon Upgrade	Replace approximately 230 lf of existing sewer with 12-in sewer, replace approximately 1100 lf of existing sewer with 15-in sewer, replace approximately 1000 lf of existing sewer 30-in sewer, replace approximately 60 lf of existing sewer with 36-in sewer	FY 06/07	FY 08/09			Preliminary engineering study underway.
S-5	South Knoxville/Knob Creek Storage Facility	Design and construction of an approximately 4 MG storage facility	FY 05/06	FY 07/08		On Hold	ON HOLD; Value engineering indicates additional rehab, along with pipeline improvements in lieu of storage tank construction may be cost effective solution to effectively reducing I/I.
S-6	Sevier Avenue and Jones Street Collector	Rehabilitate approximately 3,100 lf of existing sewer and reroute approximately 352 lf of 8-in sewer	FY 08/09	FY 09/10	352 lf gravity sewer replaced; two new MHs installed		Reroute portion completed as a short line project on July 29, 2005
S-10	Mini-basin 41A6 Rehabilitation	Find and fix work to rehabilitate approximately 13,000 lf of sewer in sewershed 41A6 in the vicinity of 701 Lake Forest Rd.	FY 05/06	FY 08/09			Preliminary engineering work will begin Fall 2006
S-28	Blount Avenue Trunk Sewer Project	Trunk sewer project to correct reverse slopes in vicinity of 3430 Blount Ave	FY 06/07	FY 08/09			Preliminary engineering study underway. Project combined with project S-2.

0002095

**Annual CAP/ER Report
July 1, 2006 - June 30, 2007**

Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
L-9	Shelbourne Road Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3001 Shelbourne Road.	FY 11/12	FY 12/13		FY 06/07	IN DESIGN

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.

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