FIVE YEAR CAPITAL IMPROVEMENT PROGRAM

AUGUST, 2008 UPDATE

CITY OF KENT, OHIO

A report highlighting the planned capital expenditures on municipal infrastructure, facilities and equipment for the years of 2009 through 2013.

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CITY OF KENT, OHIO
FIVE YEAR CAPITAL IMPROVEMENT PROGRAM
August 2008

Introduction

The City of Kent has established a five year process to make decisions involving capital expenditures because there are many more capital outlay needs in the community than there are resources available. The magnitude of capital outlay costs of infrastructure improvements mandates the City to make rational decisions and set priorities. A capital improvement program assures elected officials and citizens that these major capital decisions are fully considered before they are approved and funded.

Capital planning and budgeting helps the City provide for a more orderly replacement and development of public facilities and infrastructure. These improvements need to be upgraded periodically to ensure the continuation of efficient municipal services like water, sewer, streets, sidewalks and storm drainage. This process is designed to eliminate lower priority projects and to avoid overextending the City treasury.

Capital Improvement Programming

The Capital Improvement Program is the heart of the capital budgeting process. It is reviewed and updated annually to provide a recurring opportunity to assess the capital needs of the City based on what has been funded and what new needs have been identified. The following list of capital outlay needs for the years 2008 through 2012 represents the Administration's recommendation for a 5-Year Capital Improvement Program.

Capital Planning

The essential feature of the Capital Improvement Program is the allocation of funding to adequately meet capital needs. Revenue projections are important to the Capital Improvement Programming process because of the impact limited resources have on decision-making with regard to capital expenditures. Projecting operating expenses over the same five-year period of time is needed for comparison to revenue forecasts.

These three factors are inherently interdependent upon each other and require careful attention in allocating resources to meet priority capital needs. At present, the City does not possess sufficient financial resources to both adequately meet its capital needs and maintain current levels of municipal services. The City must either: 1) continue to defer much needed capital improvements until a crisis arises; 2) reduce current levels of municipal services; 3) increase revenues; or 4) a combination of two or more of the above. These options clearly demonstrate the inter-relationship that exists between revenues, operating expenses and capital needs.

Project Evaluation for Capital Budgeting

City staff has evaluated all the capital needs identified, relying on observation and professional judgment. A variety of factors were considered in undertaking this evaluation, including project cost, past Council decisions in allocating resources for capital needs, the relative state of disrepair/condition among equally ranked priorities, available grants and outside funding, the appropriate source of revenue available to meet the capital needs, technical considerations, and the overall economic viability of the project or outlay.

Capital outlays can be financed with operating revenues, debt proceeds, capital reserves (fund balances), lease-purchase agreements, equipment-purchase revolving funds, special assessments, and state/federal grants. The use of operating revenues to finance capital projects or equipment is called "pay-as-go" financing and has been Kent's traditional method of addressing the community's capital outlay needs.

2008 CAP for Year 2009

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2009 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
1991-061	*	**Area Q Ph. 5 Irma/Diedrich - Construction**					**$ -**			**$ -**
1991-061		**Area Q Ph. 5 Irma/Diedrich - Design and R/W**					**$ 175,000**			**$ 175,000**
1992-013	*	**Summit Street Traffic Signal Coordination - Design**				**$ 330,000**				**$ 330,000**
1997-009	*	Fairchild Avenue Bridge - Construction				$ 750,000				$ 750,000
2004-014	*	SR 59 Signalization Improvements - Construction				$ 602,000				$ 602,000
2008-003	*	SR 59 Street Light Repair/Replacement - Construction				$ 200,000				$ 200,000
2008-005	*	Middlebury Road Watermain - Construction						$ 500,000		$ 500,000
2008-15	*	**Fishcreek Watershed Evaluation**					**$ 75,000**			**$ 75,000**
2008-16		**Sanitary Sewer Flow Monitors**							**$ 50,000**	**$ 50,000**
2009-001	*	Annual Sidewalk/Street Program - Construction				$ 700,000				$ 700,000
CM-09-01	*	Sewer Cleaning Machine							$ 250,000	$ 250,000
CM-09-02	*	CM, Chipper Replacement		$ 30,000						$ 30,000
CM-09-03	*	Hooklift Truck with V Box & Dump		$ 140,000						$ 140,000
CM-09-04	*	Pickup Trucks						$ 20,000	$ 20,000	$ 40,000
FD-09-01	*	Fire Miscellaneous Equipment			$ 30,000					$ 30,000
FD-09-02	*	Fire Radio Repeater Upgrade			$ 50,000					$ 50,000
FD-09-03	*	Fire SCBA Replacement (7 units @ $3,500)			$ 25,000					$ 25,000
FD-09-04	*	Fire Vehicle Replacement Fund			$ 150,000					$ 150,000

2008 CAP for Year 2009

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2009 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
PD-09-01	*	Police Miscellaneous Equipment	$ 30,000							$ 30,000
PD-09-02	*	Police New Facility - Construction				$ 5,000,000				$ 5,000,000
SA-09-01		**Service Dept. Radio System Upgrade**	**$ 10,000**					**$ 5,000**	**$ 5,000**	**$ 20,000**
SA-09-02		**Service Dept. Alarm System Upgrade, Phase I**	**$ 5,000**					**$ 20,000**		**$ 25,000**
WR-09-01	*	WRF, Misc. Plant Equipment							$ 25,000	$ 25,000
WR-09-02	*	WRF, Roof Repair							$ 9,000	$ 9,000
WR-09-03	*	WRF, Vehicle Replacement							$ 23,000	$ 23,000
WR-09-05		**Pump Station Flow Meters (Qty. 6)**							**$ 20,000**	**$ 20,000**
WR-09-05		**D. O. Meters (Qty. 5)**							**$ 20,000**	**$ 20,000**
WR-09-07		**WRF Faciltiy Plan**							**$ 85,000**	**$ 85,000**
WT-09-01	*	WTP, Misc. Plant Equipment						$ 25,000		$ 25,000
WT-09-02	*	WTP, Front End Loader						$ 150,000		$ 150,000
WT-09-03	*	WTP, Tank Replacement Study						$ 20,000		$ 20,000
WT-09-04		**WTP Facility Plan**						**$ 75,000**		**$ 75,000**
		2009 Program Funding Totals	$ 45,000	$ 170,000	$ 255,000	$ 7,582,000	$ 250,000	$ 815,000	$ 507,000	$ 9,624,000
					Total Gen. Fund =	$ 8,052,000				

2008 CAP for Year 2010

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2010 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
1991-061		**Area Q Ph. 5 Irma/Diedrich - Construction**					**$ 950,000**			$ 950,000
2005-008	*	Howe Road Water Main Vault - Construction						$ 100,000		$ 100,000
2008-003	*	SR 59 Street Light Repair/Replacement - Construction				$ 200,000				$ 200,000
2010-001	*	Annual Sidewalk/Street Program - Construction				$ 700,000				$ 700,000
CM-10-01	*	Sign Van		$ 50,000						$ 50,000
CM-10-02	*	Pickup Truck						$ 20,000		$ 20,000
CM-10-04	*	1 ton Dump Truck w\ Spreader and Plow		$ 50,000						$ 50,000
FD-10-01	*	Fire Miscellaneous Equipment			$ 30,000					$ 30,000
FD-10-02	*	Fire Heart Monitor Replacement			$ 26,000					$ 26,000
FD-10-03	*	Fire SCBA Replacement (10 units @ $3,500)			$ 38,000					$ 38,000
FD-10-04	*	Fire Vehicle Replacement Fund			$ 150,000					$ 150,000
PD-09-02	*	Police New Facility - Construction				$ 4,000,000				$ 4,000,000
PD-10-01	*	Police Miscellaneous Equipment	$ 30,000							$ 30,000
PD-10-02	*	Police Mobile Data Terminals	$ 90,000							$ 90,000
PD-10-03	*	Police Unmarked Vehicle Replacement (3)	$ 33,000							$ 33,000
SA-09-02		**Service Dept. Alarm System Upgrade, Phase II**	**$ 15,000**						**$ 10,000**	**$ 25,000**
SA-10-01		Street Light Replacement, Repair and Maintenance								$ -
SA-10-03	*	SAC, Resurface parking areas	$ 50,000							$ 50,000

2008 CAP for Year 2010

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2010 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
SA-10-04		Shade Trees								$ -
VM-10-01	*	Underground Tank Replace & Relocate - Veh. Maint.		$ 50,000						$ 50,000
WR-10-01	*	WRF, Misc. Plant Equipment							$ 30,000	$ 30,000
WR-10-02	*	WRF, Roof Repair							$ 16,000	$ 16,000
WR-10-03	*	WRF, Sample Collection Van							$ 19,000	$ 19,000
WR-10-04		**Diffuser Replacement**							**$ 30,000**	**$ 30,000**
WR-10-05		**Submersible Pumps for Admore Pump Station**							**$ 100,000**	**$ 100,000**
WR-10-06		**Storage Bay for Screenings Pan**							**$ 25,000**	**$ 25,000**
WT-10-01	*	WTP, Misc. Plant Equipment						$ 25,000		$ 25,000
WT-10-02	*	WTP, Well Cleaning (3 wells), No. 11, 12 & 13						$ 75,000		$ 75,000
WT-10-03	*	WTP, Tandem Dump Truck						$ 70,000		$ 70,000
WT-10-04	*	WTP, Vehicle Replacement (4X4)						$ 30,000		$ 30,000
WT-10-05	*	WTP, Tank Replacement & Design						$ 120,000		$ 120,000
										$ -
		2010 Program Funding Totals	$ 218,000	$ 150,000	$ 244,000	$ 4,900,000	$ 950,000	$ 440,000	$ 230,000	$ 7,132,000
						Total Gen. Fund =	$ 5,512,000			

2008 CAP for Year 2011

Proj. No.	In 2007 CAP	Project Name Bold = changes from 2007 CAP	2011 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
1992-013	*	**Summit Street Traffic Signal Coordination - Design**				**$ -**				**$ -**
2008-10		**Hudson Road Watermain Replacement - Design**						**$ 90,000**		**$ 90,000**
2008-11		**Mogadore Road Culvert Replacement over Plum Creek - Design**					**$ 80,000**			**$ 80,000**
2008-12		**SW Sanitary Pump Stations System Evaluation**							**$ 50,000**	**$ 50,000**
2011-001	*	Annual Sidewalk/Street Program - Construction				**$ 750,000**				**$ 750,000**
CM-11-01	*	Hooklift Truck with V Box & Dump		$ 145,000						$ 145,000
FD-11-01	*	Fire Miscellaneous Equipment			$ 30,000					$ 30,000
FD-11-02	*	Fire Vehicle Replacement Fund ($150,000 - $32,000 for Chevy Tahoe see FD-11-03)			$ 118,000					$ 118,000
FD-11-03	*	**2001 Chevy Tahoe Replacement**			**$ 32,000**					**$ 32,000**
PD-11-01	*	Police Miscellaneous Equipment	$ 30,000							$ 30,000
PD-11-02	*	Police Cruisers - Nine	$ 270,000							$ 270,000
PD-11-03	*	Radio Equipment Replacement	$ 250,000							$ 250,000
PD-11-04		**Police Ballistic Vests**	**$ 30,000**							**$ 30,000**
SA-09-02		**Service Dept. Alarm System Upgrade, Phase III**	**$ 25,000**							**$ 25,000**
SA-11-01		SAC Roof Replacement	$ 250,000							$ 250,000
WR-11-01	*	WRF, Misc. Plant Equipment							$ 25,000	$ 25,000
WR-11-02	*	WRF, Digester Lid Replacement							$ 500,000	$ 500,000

2008 CAP for Year 2011

Proj. No.	In 2007 CAP	Project Name Bold = changes from 2007 CAP	2011 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
WR-11-03	*	WRF, WAS Thickening Project Design							$ 60,000	$ 60,000
WR-11-04		**WRF, Roof Repair**							**$ 16,000**	**$ 16,000**
WR-11-05		**VFDs for RAS and WAS Pumps (see Description Page)**							**$ 15,000**	**$ 15,000**
WT-11-01	*	WTP, Misc. Plant Equipment						$ 25,000		$ 25,000
WT-11-02	*	WTP, Water Treatment Well Cleaning No. 10						$ 25,000		$ 25,000
WT-11-03	*	WTP, Paint Fairchild Tank including Lead Abatement						$ 260,000		$ 260,000
										$ -
										$ -
		2011 Program Funding Totals	$ 855,000	$ 145,000	$ 180,000	$ 750,000	$ 80,000	$ 400,000	$ 666,000	$ 3,076,000
						Total Gen. Fund =	$ 1,930,000			

2008 CAP for Year 2012

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2012 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
1991-047	*	Middlebury Pump Station Rehabilitation - Design							$ -	$ -
1992-013	*	**Summit Street Traffic Signal Coordination - Construction**				**$ 2,000,000**				**$ 2,000,000**
2008-10		**Hudson Road Watermain Replacement - Construction**						**$ -**		**$ -**
2008-11		**Mogadore Road Culvert Replacement over Plum Creek - Construction**					**$ 600,000**			**$ 600,000**
2012-001	*	**Annual Sidewalk/Street Program - Construction**				**$ 800,000**				**$ 800,000**
CM-12-01		Aerial Lift Bucket Truck Replacement								$ -
CM-12-02		Rubber Tire Back Hoe to Replace Ford 655								$ -
CM-12-03		Street Sweeper to replace #183								$ -
CM-12-04		Carpenter Van to Replace #138								$ -
CM-12-05		Salt Delivery Study								$ -
CM-12-06	*	Excavator		$ 150,000						$ 150,000
FD-12-01	*	Fire Miscellaneous Equipment			$ 30,000					$ 30,000
FD-12-02	*	Fire Vehicle Replacement Fund			$ 175,000					$ 175,000
FD-12-03	*	Fire Heart Monitor Replacement			$ 30,000					$ 30,000
PD-12-01	*	Police Miscellaneous Equipment	$ 30,000							$ 30,000
PD-12-02	*	Police Unmarked Vehicle Replacement (3)	$ 33,000							$ 33,000
PD-12-03	*	**K-9 Patrol Vehicle replacement - Qty. 2**	**$ 68,000**							**$ 68,000**

2008 CAP for Year 2012

Proj. No.	In 2007 CAP	Project Name **Bold = changes from 2007 CAP**	2012 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
PD-12-04	*	Police Cruiser Video recorders	$ 48,000							$ 48,000
PD-12-05		**Compliance Vehicle Replacement**	**$ 33,000**							**$ 33,000**
WR-12-01	*	WRF, Misc. Plant Equipment							$ 45,000	$ 45,000
WR-12-02	*	Waste Activated Sludge Thickening, Project Construction							$ 125,000	$ 125,000
WR-12-04		**Clarifier Sludge Rakes/Skimmer Arms/Baffle Rings**							**$ 35,000**	**$ 35,000**
WR-12-06		**Digester Heat Exchanger replacements**							**$ 150,000**	**$ 150,000**
WT-12-01	*	WTP, Misc. Plant Equipment						$ 25,000		$ 25,000
WT-12-02	*	Paint KSU 250,000 gallon Elevated Ball Tank						$ -		$ -
WT-12-03	*	Soda Ash Machine including Installation						$ 30,000		$ 30,000
										$ -
										$ -
										$ -
										$ -
		2012 Program Funding Totals	$ 212,000	$ 150,000	$ 235,000	$ 2,800,000	$ 600,000	$ 55,000	$ 355,000	$ 4,407,000
						Total Gen. Fund =	$ 3,397,000			

2008 CAP for Year 2013

Proj. No.	In 2007 CAP	Project Name	2013 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
1991-047		Middlebury Pump Station Rehabilitation - Construction							$ -	$ -
2008-14		Fire Flow Improvements - Design						$ 50,000		$ 50,000
2012-001		Annual Sidewalk/Street Program - Construction				$ 800,000				$ 800,000
CM-13-01		Tandem Dump/Plow Truck	$ 150,000							$ 150,000
CM-13-02		1 ton Dump Truck w\ Spreader and Plow	$ 60,000							$ 60,000
CM-13-03		Zero Turn Mowing Equipment	$ 10,000							$ 10,000
FD-13-01		Fire Miscellaneous Equipment			$ 30,000					$ 30,000
FD-13-02		Fire Vehicle Replacement Fund			$ 175,000					$ 175,000
FD-13-03		Fire West Side Station Generator Replacement			$ 30,000					$ 30,000
FD-13-04		Fire Main Station Vehicle Bay Roof Repair			$ 60,000					$ 60,000
FD-13-05		Fire Heart Monitor Replacement			$ 30,000					$ 30,000
PD-13-01		Police Miscellaneous Equipment	$ 32,000							$ 32,000
PD-13-02		Police Unmarked Vehicle Replacement (3)	$ 33,000							$ 33,000
PD-13-03		Police Emergency Siren Replacement	$ 33,000							$ 33,000
PD-13-04		Police Nework Server Replacement	$ 15,000							$ 15,000
WR-13-01		WRF, Misc. Plant Equipment							$ 30,000	$ 30,000
WR-13-02		Secondary Clarifier and Aeration Tank Handrail							$ 50,000	$ 50,000
WR-13-03		Sidestream Tank							$ 150,000	$ 150,000
WT-13-01		WTP, Misc. Plant Equipment						$ 30,000		$ 30,000

2008 CAP for Year 2013

Proj. No.	In 2007 CAP	Project Name	2013 Programmed Funding As Budgeted in 2008							
			Gen Fund	SCMR	Fire/EMS	Cap Proj	Storm	Water	Sanitary	Total
WT-13-02		V-10K Chlorinator Installed (2-each total shown)						$ 30,000		$ 30,000
WT-13-03		Update Plant SCADA System						$ 100,000		$ 100,000
										$ -
										$ -
		2013 Program Funding Totals	$ 333,000	$ -	$ 325,000	$ 800,000	$ -	$ 210,000	$ 230,000	$ 1,898,000
						Total Gen. Fund =	$ 1,458,000			

2008 CAP Plan - Projects Not Funded

Proj. No.	Project Name	2009	2010	2011	2012	2013	Total

2008 CAP Plan - General Fund Projects Not Funded

2012-001	Annual Sidewalk/Street Program - Construction (Decreased)					$ 700,000	$ 700,000
							$ -
	Total per Year	$ -	$ -	$ -	$ -	$ 700,000	$ 700,000

2008 CAP Plan - Storm Water Projects Not Funded

							$ -
							$ -
	Total per Year	$ -	$ -	$ -	$ -	$ -	$ -

2008 CAP Plan - Water Projects Not Funded

2008-10	Hudson Road Watermain Replacement - Construction				$ 575,000		$ 575,000
WT-12-02	Paint KSU 250,000 gallon Elevated Ball Tank				$ 260,000		$ 260,000
	Total per Year	$ -	$ -	$ -	$ 835,000	$ -	$ 835,000

2008 CAP Plan - Sanitary Projects Not Funded

1991-047	Middlebury Pump Station Rehabilitation - Construction				$ 200,000	$ 1,000,000	$ 1,200,000
	Total per Year	$ -	$ -	$ -	$ 200,000	$ 1,000,000	$ 1,200,000

2008 CAP Plan - By Fund

General Fund						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 45,000	$ 218,000	$ 855,000	$ 212,000	$ 333,000	**$ 1,663,000**

SCMR						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 170,000	$ 150,000	$ 145,000	$ 150,000	$ -	**$ 615,000**

Fire/EMS						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 255,000	$ 244,000	$ 180,000	$ 235,000	$ 325,000	**$ 1,239,000**

Capital Projects *						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 7,582,000	$ 4,900,000	$ 750,000	$ 2,800,000	$ 800,000	**$ 16,832,000**

* Does not include monies reimbursed by outside agencies (OPWC & KSU)

Goverment Funds Total						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 8,052,000	$ 5,512,000	$ 1,930,000	$ 3,397,000	$ 1,458,000	**$ 20,349,000**

Storm Projects						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 250,000	$ 950,000	$ 80,000	$ 600,000	$ -	**$ 1,880,000**

Water Projects						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 815,000	$ 440,000	$ 400,000	$ 55,000	$ 210,000	**$ 1,920,000**

Sanitary Projects						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 507,000	$ 230,000	$ 666,000	$ 355,000	$ 230,000	**$ 1,988,000**

All Projects *						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 9,624,000	$ 7,132,000	$ 3,076,000	$ 4,407,000	$ 1,898,000	**$ 26,137,000**

* Does not include monies reimbursed by outside agencies (OPWC & KSU)

All Projects Funds Reimbursed						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 765,000	$ 595,000	$ -	$ 1,000,000	$ -	**$ 2,360,000**

All Projects Adjusted for Reibursements*						
	2009	2010	2011	2012	2013	Total
2008 CAP Plan	$ 8,859,000	$ 6,537,000	$ 3,076,000	$ 3,407,000	$ 1,898,000	**$ 23,777,000**

* Non-Fund Specific

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
1991-061	**Area Q Ph. 5 Irma/Diedrich - Design and R/W [2010 Construction]** The Irma/Diedrich neighborhood is a part of a bowl-shaped drainage basin referred to as Drainage Area Q., bounded by W. Main Street, Chelton Drive, Deidrick Road, and Francis Street. This area is characterized by street flooding due to the inadequate capacity of the outlet sewer, which runs under W. Main Street then adjacent to Spaulding Drive, and discharging into Fish Creek. This improvement will involve the construction of the collector storm sewer system along Irma Street and Diedrich Road to relieve the flooding along these streets.	$ 175	$ 950				$ 1,125
1992-013	**Summit Street Traffic Signal Coordination - Design** This project will provide for the Installation of new traffic signals with central coordination from Water Street to East Corporation Line along the Summit Street corridor. Include in the design will be turning lanes were appropriate and access management.	$ 330			$2,000		$ 2,330
1997-009	**Fairchld Avenue Bridge Project** Crain Avenue between N. Mantua Street (S.R. 43) and Water Street is a vital link in the present and future transportation network in the City of Kent and Portage County. At present, the Crain Avenue Bridge spanning the Cuyahoga River and CSX Railroad is in poor condition and requires replacement. The available traffic capacity of Crain Avenue and congestion at the adjacent offset intersections are also major concerns. The City of Kent and Portage County have entered into a joint agreement to improve this transportation facility. In order to accomplish this goal, federal funding will be necessary to pay a portion of the cost of construction. The City is the lead-coordinating agency for this project. This project was provided funding of $3,500,000 in 2008.	$ 750					$ 750
2004-014	**SR 59 Signalization Improvements - Construction** All traffic signals on S.R. 59 from the intersection of S. Chestnut St./Middlebury Rd. to the east City Corporation Line will be replaced and the new signals coordinated by use of a closed loop signal control system with a central computer. The central computer system will be the core of all future traffic signal system improvements coordinating all signals connected to it. This first phase of a City wide traffic signal control system is a significant improvement in technology over the existing coordinated system that was installed by the City with the assistance of federal funds in 1987. This new system is designed to keep traffic moving along the main route while minimizing the delay time for traffic waiting to cross or enter the main route while being sensitive to current traffic demands calling the most appropriate signal timing scheme into use.	$ 602					$ 602
2005-008	**Howe Road Water Main Vault - Consruction** Construct a vault at the end of the City's water main prior to the connection to the City of Tallmadge water main to provide for flushing the City's now dead end main to monitor and protect the City's water distribution system.		$ 100				$ 100

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
2008-003	**SR 59 Street Light Repair/Replacement - Construction [Also Year 2010]** In 2007 the street light foundations along SR59 (Haymaker Parkway) from Longmere Drive to Willow Street were identified as having defective anchor bolts. This project will provide for the design and reconstruction of the streetlights along this section of roadway.	$ 200	$ 200				$ 400
2008-005	**Middlebury Road Watermain - Construction** The Middlebury Road Water Main Replacement Project will replace approximately 3,500 ft of water main that has experienced 17 breaks sense 2000 with the later years experiencing an increase in occurrence. The project will tie into the new Middlebury-Cherry water main and continue northeast along Middlebury terminating by connecting into the Longmere Drive water main. Pending design and available funding this project could extend to the north side of the W&LE RR tracks as some of the 17 breaks have occurred east of Longmere.	$ 500					$ 500
2008-10	**Hudson Road Watermain Replacement** - This project includes the replacement of undersized (4") and old (pre-1922) watermain along Hudson Drive From Wheatstone to Fairchild Avenue. The existing watermain has had several watermain breaks in this area and the undersized line have a detrimental impact on fire flows available from the watermain.			$ 90			$ 90
2008-11	**Mogadore Road Culvert Replacement -** This project includes the replacement of the existing culvert on Mogadore Road at Plum Creek. The project may also include the removal of the Plum Creek Park Dam. The Dam is in poor condition (Please reference Plum Creek Dam Project under *Other Considerations*) and will either be removed or repaired. This project budget includes removal of the dam, but does not include stream restoration or Dam replacement if that is determined the final solution for the Plum Creek Dam Project. However, corrosion of the existing culvert under Mogadore Road, scour and headwall settling at the outlet of the culvert as well as the documented concerns of the dam at the inlet requires replacement/rehabilitation of the existing corrugated metal pipe culvert.			$ 80	$ 600		$ 680
2008-12	**SW Sanitary Pump Stations System Evaluation -** This study will determine the most cost effective method to replace the two old pump stations within the City's Sanitary Collection System. These pump stations are located on Mogadore Road and Yacavona Drive. The pump stations serve an area located in the southwest portion of the City bounded by Stow to the West the Cuyahoga River to the South, Tallmadge Ave. to the East and Leonard/Francis/Chelton to the North. The study is required prior to the design of the Mogadore Road Pump Station programmed for 2013.			$ 50			$ 50

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
2008-14	**Fire Flow Improvements -** This project includes adding watermain interconnections to increase fire flow capacity in the system. A report completed by CT Consultants identified the following areas to be interconnected to provide increased fire flows: - Loop Allerton & Avondale - Loop East School with Valleyview - Interconnect West Grant with Wolcott					$ 50	$ 50
2008-15	**Fish Creek Watershed Evaluation -** The City predominantly drains to three main watersheds. These watersheds include Fish Creek, Plum Creek and the Cuyahoga River. All of these watersheds include a main stem (Creek or River), which was studied by FEMA in 1977 to identify the 100-year flood boundary. The storm water systems within the City was last studied in 1975. This study's recommendation are no longer valid due to the changes in how stormwater is now managed (NPDES, FEMA, etc.). The Fish Creek Watershed evaluation has three primary goals for the Fish Creek Watershed; 1) Update the 1977 FEMA study to update the 100-year flood boundary which has been modified since 1977; 2) Perform public outreach in a mailing, questionnaire or other method to identify the stormwater issues of those living within the watershed; and 3) Create a priority list of projects with budgetary planning costs to remedy the storm water issues. The budget also includes review fees required by FEMA.	$ 75					$ 75
2008-16	**Sanitary Sewer Flow Monitors -** As part of the EPA required Capacity Management Operations and Maintenance (CMOM) program the City is required to manage the capacity of it's sanitary sewer system using a dynamic computer modeling tool. This tool requires real time flow data to calibrate the model to determine the most cost effective solutions for the sanitary sewer system. This item includes the purchase of 3 flow monitors, mounting hardware for numerous locations and software required to download the data.	$ 50					$ 50
2009-001	**Annual Sidewalk/Street Program Construction [Also Years 2010-01, 2011-01, 2012-01 & 2013-01]** The combined annual Street/Sidewalk Program services the capital maintenance needs of the City's streets, sidewalks, curbs, and structures contained within the public right-of-way or related there too. Work includes pavement resurfacing, repair and rehabilitation, base repair, pavement recycling, seal coats, crack sealing, pavement and subgrade fabric installation and restorative and reclaiming seal coats to extend pavement service life. Work also includes reconstruction of such items as underdrains, drainage structures, manholes, water valve boxes, monument boxes and related items and sidewalk replacement and repair of old deteriorated walk and unsafe walk, connecting sections of walk which were never built or were removed and never replaced and adding ramps and similar improvements to make walks more accessible and pedestrian friendly.	$ 700	$ 700	$ 750	$ 800	$ 800	$ 3,750

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
CM-09-01	**Sewer Cleaning Machine** The purchase of a new truck mounted sewer jetting and vacuum machine to replace the 1985 Aqua Tec Sewer Machine which is worn out and unsafe to operate. The jetting pump needs rebuilt or replaced, as does the blower unit for the third time. Any extensive use of this machine causes the engine to over heat. This unit uses the truck engine to operate the pressure and vacuum pumps which puts excessive strain on the drive engine and over time has weakened it to produce less than 50% of its original power. The replacement machine incorporates a second engine to operate the pumps.	$ 250					$ 250
CM-09-02	**Chipper Replacement** Brush chippers are used by Central Maintenance both during critical storm cleanup and the City's Brush Chipping Program and need to be kept in good condition. The current large size 1995 Vermer Model BC1230 brush chipper is becoming difficult and costly to maintain with age and needs to be replaced.	$ 30					$ 30
CM-09-03	**Hooklift Truck with V Box & Dump** Replace older plow truck where repair costs and down time are already affecting the 1995 fleet of trucks. Two of the trucks (units #173 and #174) have had their differentials rebuilt and the dump bodies have had extensive repair work performed on them. Replacement is critical since the fleet was bought all at the same time and is deteriorating at a relatively equal rate.	$ 140					$ 140
CM-09-04	**Pickup Trucks** The older pickup trucks are rusting at the frames and require increased maintenance to keep them running. Pickup trucks are a critical part of Central Maintenance and need to be kept in good condition. They are used every daily for transporting staff, equipment and material and receive additional hours running to keep the safety lights working when the crews are out working in the street.	$ 40					$ 40
CM-10-01	**Sign Van** As a critical part of the Central Maintenance's fleet, this older van requires a considerable maintenance. It is used every day not only for driving, but also for a lot of hours running to keep the safety lights working when the crews are out laboring in the street. The cost includes the required sign post installation and removal of equipment.		$ 50				$ 50
CM-10-02	**Pickup Truck** The older pickup trucks are rusting at the frames and require increased maintenance to keep them running. Pickup trucks are a critical part of Central Maintenance and need to be kept in good condition. They are used every daily for transporting staff, equipment and material and receive additional hours running to keep the safety lights working when the crews are out working in the street.		$ 20				$ 20

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
CM-10-04	**1 ton Dump Truck w\ Spreader and Plow (Replace one in 2010 and one in 2013)** The one ton dump trucks will replace one of the three 1995 Ford one ton dump trucks. They are used to plow and salt alleys and cul-de-sacs and they also serve as asphalt patch trucks and chipping trucks. These trucks can pull a variety of trailers and are available on the state bid list.		$ 50			$ 60	$ 110
CM-11-01	**Hooklift Truck with V Box & Dump** Replace older plow truck where repair costs and down time are already affecting the 1995 fleet of trucks. Two of the trucks (units #173 and #174) have had their differentials rebuilt and the dump bodies have had extensive repair work performed on them. Replacement is critical since the fleet was bought all at the same time and is deteriorating at a relatively equal rate.			$ 145			$ 145
CM-12-06	**Excavator** The purchase of a new Excavator will replace one of the two current 1995 Ford 655 Rubber tire Backhoes. The upgrade from the current excavating equipment is required do to the depth that some of the newer utilities are installed making it impossible for City staff to reach such depths with the current machines. This machine will give the division more flexibility in repairing and maintaining the systems, (sanitary, storm and water)				$ 150		$ 150
CM-13-01	**Tandem Dump/Plow Truck** - This Vehicle will replace one of our old 2-1/2 ton Dump/Plow truck. Currently we are replacing the old 1995 2-1/2 Ton Dump/Plow truck with the Hooklift type truck. As of 2008 there are 6 Hooklift trucks in the fleet. This request is to start replacing the rest of the old Single axle Dump/Plow Trucka with Tandem axle Plow /Dump Trucks as the amount of Miles of roads plowed includes St. Rt. 261 which takes 3 to 4 trucks alone to efficiently remove and treat the snow and Ice, and with the new paving equipment and work that needs to be completed we need bigger trucks to handle the loads. The Division would only need to have 2 (two) of these larger Dump/Plow Truck in the fleet as the other 2-1/2 ton Dump/Plow trucks will still be sufficient for all other tasks in the division.					$ 150	$ 150
CM-13-03	**Zero Turn Mowing Equipment** - This unit will replace the current mowing equipment which was purchased in 2004. This mower needs to be kept upgraded so that all City Properties can be maintained. The O-Turn mower has helped reduce the time spent mowing City properties. City Crews use this machine and can cover what we are responsible for in less than a week. With the older style mowing equipment it took us 1-1/2 weeks sometime more to cover it. This mower will be going on 10 year old by the time that we replace it if we can keep it going that long.					$ 10	$ 10
FD-09-01	**Fire Department Miscellaneous Equipment (Additional Years FD-10-01, FD-11-01, FD-12-01, FD-13-01)** - Funds are used each year to provide for smaller identified capital needs of the Kent Fire Department.	$ 30	$ 30	$ 30	$ 30	$ 30	$ 150

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
FD-09-02	**Fire Radio Repeater Upgrade** - This may not be required because there are many changes in the radio communications technology and strategies that may render this commitment moot. It may be necessary to do complete system changeovers sooner to comply with new federal and state emergency planning issues and interoperability guidelines. On the positive side, there may be some funding available to accomplish such a change if we can work towards partnerships with other surrounding communities. See further communications issues in the FY2011 proposal area.	$ 50					$ 50
FD-09-03	**Fire SCBA Replacement** - This will be the fourth year for the Fire Department SCBA replacement, which if funded will complete 35 units of the 40 unit replacement. The request for 2010 (FD-10-03) will be the fourth year for the Fire Department SCBA replacement, which will complete the 40 unit replacement.	$ 25	$ 38				$ 63
FD-09-04	**Fire Vehicle Replacement Fund (Additional Years, FD-10-04, FD-11-02)** - An increase of annual dedicated amount for this fund is recommended based on the current estimates of time and projected replacement costs. This is a conservative estimate based on optimal life of the current equipment, and a very conservative 3% inflation factor. An increase of annual dedicated amount for this fund was requested. Due to the City's current financial status, a continuation of the prior year amount is recommended. An increase in 2012 (FD-12-02) of annual dedicated amount for this fund is recommended based on the current estimates of time and projected replacement costs. This is a conservative estimate based on optimal life of the current equipment, and is less than the requested amount.	$ 150	$ 150	$ 118	$ 175	$ 175	$ 768
FD-10-02	**Fire Dept. Heart Monitor Replacement (Additonal Year FD-12-03 & FD-13-05)** - The remaining units are approximately fifteen years old, and will need to be replaced due to maintenance and technology needs. This request funds the replacement on one of the three units, other units were upgraded in 2006 with successive replacements in future years.		$ 26		$ 30	$ 30	$ 86
FD-11-03	**Fire Dept. Replace 2001 Chevy Tahoe** - The current unit 1836 will be nine years old during this period. This vehicle is frequently used as the second response vehicle on many EMS runs, and is subject to rough and intense driving. Its replacement is scheduled into the vehicle replacement plan.			$ 32			$ 32
FD-13-03	**Fire West Side Station Generator Replacement** - The generator replacement for the West Side fire station has been scheduled for replacement previously, but had been deferred for cost savings reasons. It now needs to be accomplished.					$ 30	$ 30
FD-13-04	**Fire Main Station Vehicle Bay Roof Repair** - The main fire station roof over the original bays is of asphalt and gravel construction, and by 2013 will be over twenty years old and in need of major maintenance.					$ 60	$ 60

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
PD-09-01	**Police Department Miscellaneous Equipment (Additional Years PD-10-01, PD-11-01, PD-12-01, PD-13-01)** - Funds are used each year to provide for smaller identified capital needs of the Kent Police Department.	$ 30	$ 30	$ 30	$ 30	$ 32	$ 152
PD-09-02	**Police New Facility (Construction)** - This project involves the acquisition of properly located land and the construction of a new police station to replace the currently outdated facility which is experiencing excessive maintenance demands on its old and inefficient systems. The Administration has begun updating of the needs assessment for this project, and is considering the possibility of merging other agency participation in the project. Although this joint approach may provide for some economy of scale, it may also create other project issues. Depending on additional participation, location and parking demands may be much greater, requiring consideration of more stringent site requirements, and land space for increased parking needs. Additionally, the estimate used for budget purposes in this version of the capital plan is several years old, and therefore may be substantially understated. Estimates and joint function discussions are on-going, and may provide greater detail in terms of needs and projected costs.	$ 5,000	$ 4,000				$ 9,000
PD-10-02	**Police Mobile Data Terminal Replacement** - Police mobile data terminal replacement is requested due to hard wear on vehicle-mounted equipment, as well as an anticipated need for equipment updates.		$ 90				$ 90
PD-10-03	**Police Unmarked Vehicle Replacement (Qty. 3, Price Shown Total) (Also PD-13-02)** - The Police unmarked vehicle replacement is estimated at three vehicles since none will have been replaced since 2008.		$ 33			$ 33	$ 66
PD-11-02	**Police Cruisers (Qty. 9, Total Shown)** - This will complete four years with the current fleet of eight vehicles.			$ 270			$ 270
PD-11-03	**Radio Equipment Replacement** - This year may be the first actual implementation requirement date for a proposed radio interoperability plan for emergency agencies in Portage County. An initial county-wide study has been conducted under the auspices of the Portage County Dept. of Homeland Security/Emergency Management. The results of this study will be released this summer, which will identify the alternatives the county emergency agencies may need to implement in order to comply with Federal and State communications interoperability goals. There will likely be two alternatives, which will include sophisticated trunked radio frequency capabilities, or modifications to the use of existing radio frequencies to provide for interoperability. Depending upon the alternative chosen by the majority of public entities in the county, various expenses may be required.			$ 250			$ 250

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
PD-11-04	**Police Ballistic Vests** - Replacement of the Police Department's personnel's ballistic vests is consistent with the Collective Bargaining Agreement 5-year replacement policy.			$ 30			$ 30
PD-12-02	**Police Unmarked Vehicle Replacement (Qty. 3, Price Shown Total)** - The Police unmarked vehicle replacement is estimated at three vehicles since none will have been replaced since 2010.				$ 33		$ 33
PD-12-03	**K-9 Patrol Vehicles (Qty. 2 Price Shown Total)** - Replacement of the police K-9 patrol vehicles have been deferred due to the need to provide capital funds for building needs. Re-establishing the regular schedule of the replacement, and based on mechanical need, replacement is now necessary. The number of K-9 vehicles has been reduced from three (as approved in this plan previously) to two.				$ 68		$ 68
PD-12-04	**Cruiser Video Recorders** - The cruiser video recorders have become an invaluable tool in the prosecution of offenders and in documenting the efforts of the officers who work the streets. This equipment is severely impacted by weather and vehicle mounting, and is also subject to the needs of technological advancements. The age of the equipment at this time will be five years of cruiser-mounted duty.				$ 48		$ 48
PD-12-05	**Compliance Vehicle Replacement** - This vehicle replaces the 2002 Jeep used by the City's Compliance Officer. The vehicle is funded by the savings experienced by the decrease in the number of K-9 Patrol Vehicles purchased from three to two.				$ 33		$ 33
PD-13-03	**Police Emergency Siren Replacement** - The emergency siren replacement is projected for the sites at the Fairchild Water Tower and the Franklin Avenue Recreation Center. These are the two remaining sirens from the original installation over twenty years ago.					$ 33	$ 33
PD-13-04	**Police Network Server Replacement** - The Police Network Server was originally scheduled for replacement in 2011 but was deferred due to funding restraints. Replacement of the server is required to guarantee continued computer services for the Police Department.					$ 15	$ 15
SA-09-01	**Service Dept. Radio System Upgrade** - This upgrade will provide a better communication system by use of a repeater system. With the implementation of the repeater system the City will experience a decrease cost for AT&T connections required by the current system. Additionally the upgrade is necessitated by changes in FCC regulations nationwide.	$ 20					$ 20

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
SA-09-02	**Service Dept. Alarm System Upgrade, Phase I** - This upgrade will provide direct connection of the City's alarm system from various City Facilities allowing for direction connection to Kent Police Department. The project, when fully implemented, will eliminate the phone line and monitoring company monthly charge currently in place.	$ 25	$ 25	$ 25			$ 75
SA-10-03	**SAC Resurface Parking Area** The Service Complex parking is identified as needing replaced because it has reached its design life.		$ 50				$ 50
SA-11-01	**SAC Roof Replacement** The Service Complex roof is identified as needing replaced because they are reaching their design life.			$ 250			$ 250
VM-10-01	**Underground Tank Replace & Relocate - Veh. Maint.** This capital project will remove the City's buried gasoline and diesel fuel tanks and relocate the City's fueling facility closer to Vehicle Maintenance placing above ground storage tanks at a new secure location.		$ 50				$ 50
WR-09-01	**WRF, Misc. Plant Equipment [In YEAR WR-10-01, WR-11-01]** Funds are used each year to provide for smaller identified capital needs at the Water Reclamation Facility.	$ 25	$ 30	$ 25	$ 45	$ 30	$ 155
WR-09-02	**WRF, Roof Repair [In Year WR-10-02, WR-11-04]** The Water Reclamation Facility roofs identified in this phased multi-year project were built in 1965 and 1985 and have exceeded their design life. The roof(s) being replaced are phased based on analysis of current conditions during each funding year. Phased funding was selected to continue maximization of the roof's design life. The WRF Manager has worked towards a annual replacement schedule that insures all roofs remain water tight. The roof replacement will annually be investigated to determine need. For 2009 the upper and lower roofs and wall flashings between Digester #1 and #2 will be resaturated with coal tar and new gravel installed. For 2010 the roof of the Maintenance Building will need to be replaced. For 2011 the north roof of the Maintenance Building and the wall flashing will be replaced.	$ 9	$ 16	$ 16			$ 41
WR-09-03	**WRF, Vehicle Replacement** - The 1996 pickup truck will be 13 years old and needs to be replaced. The bed that was previously replaced is deteriorating again. (All vehicles will be reviewed by the Chief Mechanic prior to replacement during the year scheduled of anticipated need and will confirm appropriateness of any vehicle replaced.)	$ 23					$ 23
WR-09-05	**WRF, Pump Station Flow Meters (Qty. 6, total shown)** - This would provide flow measuring capabilities at six pump stations (Riverbend, Middlebury, Yacavona, College Towers, Sunrise and Overholt). The other two (Admore, Gougler) already have this capability.	$ 20					$ 20

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
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WR-09-05	**WRF, D.O. (Dissolved Oxygen) Meters (Qty. 5, total shown)** - These would replace the three existing D.O. meters and place a D.O. probe at the beginning and end of the two Aeration Tanks and one in the Chlorine Contact Tank for process control and monitoring.	$ 20					$ 20
WR-09-07	**WRF, Facility Plan** - The most recent Facility Plan dates back to 1977. This plan needs updated to reflect current conditions and future infrastructure needs to assure the appropriate spending of available funding.	$ 85					$ 85
WR-10-03	**WRF, Sample Collection Van** There will be a need to replace a 1997 model which will be 13 years in service by the time it is replaced in 2009. (All vehicles will be reviewed by the Chief Mechanic prior to replacement during the year scheduled of anticipated need and will confirm appropriateness of any vehicle replaced.)		$ 19				$ 19
WR-10-04	**WRF, Diffuser Replacement** - The rubber membrane diffusers in the three Aeration Tanks have a limited life expectancy of 5-6 years and will need to be replaced. #1 Aeration Tank was replaced in 2004 and #2 Aeration Tank was replaced in 2005.		$ 30				$ 30
WR-10-05	**Submersible Pumps for Admore Pump Station** - There have been consistent maintenance issues for several years with the existing pumps at this location. The installation of dry pit submersible pumps would alleviate the pump priming problems in addition to the pump plugging problems.		$ 100				$ 100
WR-10-06	**Storage Bay for Screenings Pan** - This would entail adding an isolated bay on to the existing Vehicle Storage Building to house the very odorous screenings pan. This pan is currently located in the working area of this building.		$ 25				$ 25
WR-11-02	**WRF, Digester Lid Replacement** - This digester (circa 1964) has been diagnosed with a deteriorated floating cover infrastructure and inadequate sludge mixing capabilities. Renovation will consist of draining and cleaning the digester, replacing the existing floating cover and installing new sludge mixing equipment.			$ 500			$ 500
WR-11-03	**WRF, WAS Thickening Project (2011 Design & 2012 Construction)** - The current practice of wasting activated sludge to the head of the plant is vulnerable to increased influent flow. As the plant approaches design flow capacity, it is necessary to remove this vulnerability for process control purposes. This project will entail the design of the best available technology for sludge thickening equipment to reduce the volume of sludge pumped to the anaerobic digestion process. This will enable adequate control over the activated sludge process and the anaerobic sludge digestion process.			$ 60	$ 125		$ 185

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
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WR-11-05	**WRF, Variable Frequency Drives for Return Activated Sludge and Waste Activated Sludge Pumps** - The seven current VFDs for these pumps will need to be replaced.			$ 15			$ 15
WR-12-04	**WRF, Clarifier Sludge Rakes/Skimmer Arms/Baffle Rings** - The #1 Primary Clarifier and # 2 & #3 Secondary Clarifiers are circa 1964. These items will need to be replaced.				$ 35		$ 35
WR-12-06	**WRF, Digester Heat Exchanger replacements** - These units (used to heat the anaerobic digester sludge) are circa 1964 and will need to be replaced.				$ 150		$ 150
WR-13-02	**Secondary Clarifier and Aeration Tank Handrail** - This handrail is circa 1964 and will need to be replaced.					$ 50	$ 50
WR-13-03	**Sidestream Tank** - This tank will be used control the discharge of sidestream flows from the belt filter presses and anaerobic digesters to limit the amount of ammonia, CBOD and suspended solids entering the treatment processes.					$ 150	$ 150
WT-09-01	**WTP, Misc. Plant Equipment [Additional Years WT-10-01, WT-11-01, WT-12-01 & WT-13-01]** Funds are used each year to provide funding for smaller identified Capital needs at the Water Treatment Plant.	$ 25	$ 25	$ 25	$ 25	$ 30	$ 130
WT-09-02	**WTP, Front End Loader** Replace existing 1987 Front End Loader model that has exceeded its useful life. Continued use is cost prohibitive due to high maintenance costs and lack of reliability.	$ 150					$ 150
WT-09-03	**WTP, Tank Replacement Study** The current inventory of City water tanks includes some which have lead based paint coatings and combined with the age of the tanks require investigation to determine the proper maintenance or replacement. The Study will provide the best of the available alternatives to maintain a quality supply of water for the City's customers.	$ 20					$ 20
WT-09-04	**WTP Facility Plan** - The most recent Facility Plan dates back to 1970's. This plan needs updated to reflect current conditions and future infrastructure needs to assure the appropriate spending of available funding.	$ 75					$ 75
WT-10-02	**WTP, Well Cleaning (3 wells), No. 11, 12 & 13** The cleaning of Water Treatment Plant. Wells is an ongoing maintenance project which is completed to guarantee a quality water source for the City's customers.		$ 75				$ 75

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

Proj.#	Description	2009	2010	2011	2012	2013	5-Year
	The following narrative describes the major capital outlay needs identified above, including the justification to expend public funds. (*** Dollars in Thousands)	***	***	***	***	***	Total ***
WT-10-03	**WTP, Tandem Dump Truck** Replace a 1995 Kenworth with over 300,000 miles by 2007, and is expected to experience high maintenance costs and excessive down time, with another used (but newer) dump truck to haul sludge.		$ 70				$ 70
WT-10-04	**WTP, Vehicle Replacement (4x4)** The Dodge Ram 4x4 will be eight years old and have about 100,000 miles. It is equipped to plow snow and to gain access to our wells, tanks and booster stations in any weather situation.		$ 30				$ 30
WT-10-05	**WTP, Tank Replacement & Design** The current inventory of City water tanks includes some which have lead based paint coats and combined with the age of the tanks require investigation to proper maintenance or replacement. The 2009 Study results will provide the best of the available alternatives and the design funds requested will continue with the work started in the study completing a design to correct the problems identified.		$ 120				$ 120
WT-11-02	**WTP, Water Treatment Well Cleaning No. 10** The cleaning of Water Treatment Plant. Wells is an ongoing maintenance project which is completed to guarantee a quality water source for the City's customers.			$ 25			$ 25
WT-11-03	**WTP, Paint Fairchild Tank Including Lead Abatement** The Fairchild Tank has been identified by the Staff of the Water Treatment Plant as being possible to paint although it needs lead abatement.			$ 260			$ 260
WT-12-03	**Soda Ash Machine including installation** - Installation of a Soda Ash Machine is identified as a need at the Water Treatment Plant.				$ 30		$ 30
WT-13-02	**V-10K Chlorinator Installed (2 each total shown)** - Installation of two Chlorinators is identified as a need at the Water Treatment Plant. Chlorine gas feed equipment has to be maintained and/or replaced for safety and efficient disinfection of drinking water. In 2007, the chlorinators received new rebuild kits that will be reliable for about five years. In the year 2013, both chlorinators should be replaced.					$ 30	$ 30
WT-13-03	**Update Plant SCADA System** - System Control and Data Acquisition (SCADA) is a computer and software system that translates data from hard wire or radio signals into usable computer screen information. This information can be viewed, recorded and used to control equipment in the plant or at a remote location. Of high importance with the new system is that we retain control of all licenses so that we are not committed to one installer for future upgrades/maintenance as we are presently.					$ 100	$ 100

2008 CAP PLAN UPDATE
2009 - 2013 Project Descriptions

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	Total Columns by Year this page:	$ 9,624	$ 7,132	$3,076	$4,407	$1,898	$26,137

8/1/2008

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CITY OF KENT, OHIO

Combined Statement of Revenues, Expenditures and Changes in Fund Balances - Budget and Actual (Non-GAAP Budgetary Basis) (1)
General Fund, Street Construction, Maintenance and Repair Fund, Income Tax Fund, Income Tax Safety Fund, Fire and E.M.S. Fund and Capital Projects Fund
Actual for Fiscal Years 2003 through 2007 and Budgeted Fiscal Years 2008 through 2013

	2003	2004	2005	2006	2007	Revised Budget 2008	2009	2010	2011	2012	2013
Revenues											
Property and other taxes	$ 1,461,261	1,595,471	1,559,722	1,646,965	1,679,315	1,696,312	1,685,000	1,679,088	1,459,088	1,500,000	1,500,000
Income Taxes	9,858,428	9,725,653	10,305,382	10,315,429	10,660,344	10,650,000	10,809,750	10,971,896	11,136,475	11,303,522	11,473,075
JEDD Taxes	-	-	-	12,820	182,215	325,000	330,000	340,000	350,000	700,000	700,000
Fees, licenses and permits	134,277	251,437	219,061	199,317	97,626	106,900	80,000	80,000	80,000	80,000	80,000
Intergovernmental	2,469,193	2,555,667	2,606,491	2,653,360	2,716,398	2,684,368	2,711,212	2,738,324	2,765,707	2,793,364	2,821,298
Estate Taxes	242,715	738,249	259,369	343,661	294,127	250,000	225,000	225,000	225,000	225,000	225,000
Grants	40,688	12,784	20,036	52,685	8,268	150,000	-	-	-	-	-
Charges for services	769,335	837,626	1,084,893	1,032,200	1,136,759	1,061,000	1,085,000	1,085,000	1,085,000	1,085,000	1,085,000
Fines and forfeits	298,318	308,131	266,996	231,953	221,509	231,400	231,400	231,400	231,400	231,400	231,400
Special assessments	83,151	94,032	80,275	83,784	127,162	79,000	78,000	78,000	78,000	78,000	78,000
Interest	249,272	244,810	450,936	843,771	969,351	905,000	600,000	400,000	100,000	100,000	100,000
Miscellaneous	171,091	69,972	107,920	184,759	257,195	75,000	75,000	75,000	75,000	75,000	75,000
Total revenues	15,777,729	16,433,832	16,961,081	17,600,704	18,350,269	18,213,980	17,910,362	17,903,708	17,585,670	18,171,286	18,368,772
Expenditures											
Current											
Security of persons and property	7,745,030	8,370,377	8,312,673	8,377,533	8,721,516	9,349,994	9,630,494	9,919,409	10,216,991	10,523,501	10,839,206
Public health and welfare	409,432	432,608	440,589	452,613	445,415	507,289	522,508	538,183	554,328	570,958	588,087
Leisure time activities	-	-	-	-	-	-	-	-	-	-	-
Community development	1,155,729	1,228,700	1,129,616	1,168,852	1,687,762	2,399,255	1,410,333	1,452,643	1,496,222	1,541,109	1,587,342
Transportation	1,370,048	1,452,121	1,387,654	1,360,518	1,419,435	1,579,416	1,626,798	1,675,602	1,725,871	1,777,647	1,830,976
General government	2,606,834	2,852,649	2,704,417	2,809,852	2,729,307	3,208,160	3,304,405	3,403,537	3,505,643	3,610,812	3,719,137
Total expenditures	13,287,073	14,336,455	13,974,949	14,169,368	15,003,435	17,044,114	16,494,537	16,989,374	17,499,055	18,024,026	18,564,747
Excess of revenues over expenditures	**2,490,656**	**2,097,377**	**2,986,132**	**3,431,336**	**3,346,834**	**1,169,866**	**1,415,824**	**914,335**	**86,615**	**147,260**	**(195,975)**
Other financing sources (uses)											
Proceeds from sale of assets	-	-	-	108,443	38,575	5,000	-	-	-	-	-
Proceeds from sale of notes/bonds	4,407,511	4,226,143	3,949,501	3,696,082	3,453,628	3,225,000	5,000,000	4,000,000	-	-	-
Debt service and issuance costs	(5,104,289)	(4,742,875)	(4,543,412)	(4,350,568)	(4,099,894)	(3,854,797)	(616,952)	(994,835)	(1,372,198)	(1,374,561)	(1,376,924)
Capital grants	119,116	-	815,240	67,500	27,880	1,500,000	765,000	-	-	1,000,000	-
Managed Reserve Contribution	(40,236)	(41,929)	(69,752)	(98,359)	(106,485)	(105,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)
Advance/Transfer to other funds (net)	(1,319,830)	(88,479)	1,051,600	140,000	165,000	175,000	290,000	290,000	290,000	290,000	290,000
Net other financing sources (uses)	(1,937,728)	(647,140)	1,203,177	(436,902)	(521,296)	945,203	5,338,048	3,195,165	(1,182,198)	(184,561)	(1,186,924)
Available for Capital Outlay	**552,928**	**1,450,237**	**4,189,309**	**2,994,434**	**2,825,538**	**2,115,069**	**6,753,872**	**4,109,500**	**(1,095,583)**	**(37,301)**	**(1,382,899)**
Operating capital	-	-	-		-	-	50,000	50,000	50,000	50,000	50,000
Capital outlays	2,674,055	3,135,685	2,226,098	1,892,703	2,286,247	4,898,000	8,052,000	5,512,000	1,930,000	3,397,000	1,458,000
Revenues/Sources minus Expenditures/Us	**(2,121,127)**	**(1,685,448)**	**1,963,211**	**1,101,731**	**539,291**	**(2,782,931)**	**(1,348,128)**	**(1,452,500)**	**(3,075,583)**	**(3,484,301)**	**(2,890,899)**
Recovery of prior year encumbrances	616,793	243,874	420,968	38,297	304,945	-	-	-	-	-	-
Fund balance - January 1	11,305,462	9,801,128	8,359,554	10,743,733	11,883,761	12,727,997	9,945,066	8,596,938	7,144,438	4,068,855	584,553
Fund balance - December 31	$ 9,801,128	8,359,554	10,743,733	11,883,761	12,727,997	9,945,066	8,596,938	7,144,438	4,068,855	584,553	(2,306,346)
		Charter Require	2,405,044	2,446,480	2,565,825	2,513,836	2,544,719	2,580,524	2,616,795	2,653,538	2,697,312
		Prin. Repay. Debt	(389,947)	(399,947)	(404,947)	(409,947)	(414,947)	(549,947)	(699,947)	(714,947)	(729,947)
		Transfer to Storm	0	0	0	0	0	0	0	0	0
		Cap. Exp. Required	**2,015,097**	**2,046,533**	**2,160,878**	**2,103,889**	**2,129,772**	**2,030,577**	**1,916,848**	**1,938,591**	**1,967,365**
		Man. Reserve Balance	1,825,233	1,923,592	2,030,077	2,135,077	2,235,077	2,335,077	2,435,077	2,535,077	2,635,077

(1) Expenditures include current year encumbrances and the ending balance is equal to cash minus encumbrances

8/1/2008 STORM WATER DRAINAGE FUND ANALYSIS 10:52 AM

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Beg Fund	896,461	1,407,154	1,626,135	1,696,017	1,534,518	2,573,741	722,425	1,022,782	1,228,138	1,722,495	1,706,851
Revenues	517,815	535,627	535,714	548,263	572,564	560,000	570,000	570,000	570,000	570,000	570,000
Grants/Intergov.	0	0	0	0	503,292	712,000	0	595,000	0	0	0
Loans	0	0	0	0	63,759	0	0	0	0	0	0
Assessment	1,346	1,185	1,366	1,519	54,573	2,000	9,000	9,000	9,000	9,000	9,000
Other	0	0		2,000	4,400	3,000	3,000	3,000	2,000	2,000	2,000
Interest	13,849	19,964	61,878	71,263	100,879	80,000	40,000	50,000	65,000	75,000	85,000
Transfer-in	220,000	200,000	0	0	0	0	0	0	0	0	0
Total Rev	753,010	756,776	598,958	623,045	1,299,467	1,357,000	622,000	1,227,000	646,000	656,000	666,000
Operating Costs	68,357	36,374	52,796	21,566	23,473	20,000	25,000	25,000	25,000	25,000	25,000
Refunds	0	0	310	0	2	1,000	500	500	500	500	500
Transfer-out *	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Total Oper	98,357	66,374	83,106	51,566	53,475	51,000	55,500	55,500	55,500	55,500	55,500
Rev-Oper	654,653	690,402	515,852	571,479	1,245,992	1,306,000	566,500	1,171,500	590,500	600,500	610,500
Debt Serv	0	0	0		1,167	2,335	4,967	4,967	4,967	4,967	4,967
Avail for Cap	**654,653**	**690,402**	**515,852**	**571,479**	**1,244,825**	**1,303,665**	**561,533**	**1,166,533**	**585,533**	**595,533**	**605,533**
Cap Facil	143,960	471,421	445,970	732,979	141,034	3,144,000	250,000	950,000	80,000	600,000	0
Cap Equipment	0	0	0	0	0	0	0	0	0	0	0
Total Cap	143,960	471,421	445,970	732,979	141,034	3,144,000	250,000	950,000	80,000	600,000	0
Flooding Reserve					10,268	10,980	11,176	11,176	11,176	11,176	11,176
End Fund	1,407,154	1,626,135	1,696,017	1,534,518	2,628,041	722,425	1,022,782	1,228,138	1,722,495	1,706,851	2,301,208
Encumbrances	(282,651)	(154,399)	(438,569)	(204,898)	(54,300)						
End Unenc	1,124,503	1,471,736	1,257,448	1,329,620	2,573,741						
Cumulative Flooding Reserve					10,268	21,249	32,425	43,602	54,778	65,955	77,131

WATER FUND ANALYSIS

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Beg Fund	3,241,726	2,350,962	1,817,844	2,005,685	2,610,054	3,006,102	1,601,902	927,384	514,798	53,228	(159,816)
Revenues	2,753,682	2,792,725	2,813,575	2,744,326	2,783,887	2,800,000	2,800,000	2,800,000	2,810,000	2,810,000	2,810,000
Tap-In	82,914	107,091	156,314	99,170	193,249	50,000	50,000	50,000	50,000	50,000	50,000
Grants	6,588	3,603	999	573	0	0	0	0	0	0	0
Assessments	38,838	71,288	27,619	24,392	25,773	20,000	20,000	20,000	20,000	20,000	20,000
Other	459,479	105,034	63,848	273,120	378,726	55,000	55,000	56,000	56,000	57,000	57,000
Interest	42,922	29,045	60,352	95,884	141,188	100,000	50,000	30,000	15,000	3,000	0
Transfer-In	0	0	0	0	0	0	0	0	0	0	0
Total Rev	3,384,423	3,108,786	3,122,707	3,237,465	3,522,823	3,025,000	2,975,000	2,956,000	2,951,000	2,940,000	2,937,000
Plant	1,099,644	1,236,026	1,229,190	1,265,454	1,320,199	1,324,268	1,390,481	1,446,101	1,489,484	1,534,168	1,580,193
Admin	412,326	463,121	446,146	426,808	413,267	534,713	550,754	567,277	584,295	601,824	619,879
Util Dist	565,231	643,043	588,681	587,669	603,857	709,556	730,843	752,768	775,351	798,612	822,570
Refunds	51,320	11,714	21,844	6,626	19,996	25,000	15,000	15,000	15,000	15,000	15,000
Contingency	0	0	0	0	0	50,000	50,000	50,000	50,000	50,000	50,000
Transfer Out	15,000	15,000	25,000	25,000	20,000	20,000	21,000	21,000	22,000	22,000	23,000
Total Oper	2,143,521	2,368,904	2,310,861	2,311,557	2,377,319	2,663,537	2,758,078	2,852,146	2,936,130	3,021,604	3,110,642
Rev-Oper	1,240,902	739,882	811,846	925,908	1,145,504	361,463	216,922	103,854	14,870	(81,604)	(173,642)
Debt Serv	0	37,232	31,648	34,441	45,558	50,663	51,440	51,440	51,440	51,440	51,440
Avail for Cap	**1,240,902**	**702,650**	**780,198**	**891,467**	**1,099,946**	**310,800**	**165,482**	**52,414**	**(36,570)**	**(133,044)**	**(225,082)**
Admin - Cap	1,850	0	0	0	0	0	0	0	0	0	0
Plant-Cap	127,929	260,220	79,883	174,549	106,682	250,000	295,000	320,000	310,000	55,000	160,000
Dist-Cap	104,033	0	20,760	0	0	44,000	20,000	20,000	0	0	0
Cap Facil	1,897,854	975,548	491,714	112,549	350,111	1,421,000	500,000	100,000	90,000	0	50,000
Operating Cap	0	0	0	0	0	0	25,000	25,000	25,000	25,000	25,000
Total Cap	2,131,666	1,235,768	592,357	287,098	456,793	1,715,000	840,000	465,000	425,000	80,000	235,000
End Fund	2,350,962	1,817,844	2,005,685	2,610,054	3,253,207	1,601,902	927,384	514,798	53,228	(159,816)	(619,898)
Encumbrances	859,287	509,936	598,429	291,106	247,105						
End Unenc	1,491,675	1,307,908	1,407,256	2,318,948	3,006,102						

* Includes transfer to pay for sewer portion of new metering system

ASSUMPTIONS;

1) Revenues - 2 1/2% increase 1999 - 2003
2) Operating expenses - increase 3% per year, except Plant increases 5% in 2009 and 4% in 2010

8/1/2008 SEWER FUND ANALYSIS 10:54 AM

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Beg Fund	3,395,474	4,053,132	4,574,850	2,376,428	2,206,493	2,918,164	2,156,565	1,409,712	1,255,524	556,203	56,761
Revenues	3,470,591	3,511,936	3,505,298	3,554,165	3,604,961	3,650,000	3,610,000	3,610,000	3,610,000	3,620,000	3,620,000
Tap-In	94,665	156,183	191,897	93,530	60,532	75,000	60,000	60,000	60,000	60,000	60,000
Grants	1,074,468	2,502,232	351,163	410,370	0	0	0	0	0	0	0
Assessment	45,776	41,795	47,227	57,404	51,731	31,000	32,000	32,000	32,000	32,000	32,000
Other	3,571,545	5,307,188	4,387,788	2,483,513	2,576,864	1,369,000	15,000	15,000	15,000	15,000	15,000
Interest	47,946	43,803	84,735	120,862	157,499	120,000	85,000	65,000	50,000	25,000	5,000
Transfer-in	1,200,000	0	0	0	0	0	0	0	0	0	0
Total Rev	9,504,991	11,563,137	8,568,108	6,719,844	6,451,587	5,245,000	3,802,000	3,782,000	3,767,000	3,752,000	3,732,000
Health	310,185	322,430	318,596	323,761	334,009	368,523	379,579	390,966	402,695	414,776	427,219
Plant	1,355,340	1,408,217	1,318,173	1,303,349	1,260,769	1,365,046	1,433,298	1,490,630	1,535,349	1,581,409	1,628,851
Admin	408,274	457,006	439,720	429,589	412,521	527,113	542,926	559,214	575,990	593,270	611,068
Util Dist	491,307	553,956	518,590	513,991	523,839	625,501	644,266	663,594	683,502	704,007	725,127
Refunds	73,958	18,359	30,477	8,477	18,734	35,000	25,000	25,000	25,000	25,000	25,000
Cont	0	0	0	0	0	34,401	50,000	50,000	50,000	50,000	50,000
Transfer-out	15,000	15,000	1,225,000	25,000	20,000	20,000	21,000	21,000	22,000	22,000	23,000
Total Oper	2,654,064	2,774,968	3,850,556	2,604,167	2,569,872	2,975,584	3,096,069	3,200,404	3,294,536	3,390,462	3,490,265
Rev-Oper	6,850,927	8,788,169	4,717,552	4,115,677	3,881,715	2,269,416	705,931	581,596	472,464	361,538	241,735
Debt Serv	3,461,643	2,954,752	3,711,156	3,602,411	2,880,118	2,298,626	850,000	410,000	410,000	410,000	410,000
Avail for Cap	**3,389,284**	**5,833,417**	**1,006,396**	**513,266**	**1,001,597**	**(29,210)**	**(144,069)**	**171,596**	**62,464**	**(48,462)**	**(168,265)**
Admin - Cap	7,782	0	0	0	0	0	0	0	0	0	0
Health-Cap	0	0	3,000	0	0	0	0	19,000	0	0	0
Plant-Cap	144,224	138,123	68,513	84,399	50,130	49,153	237,000	111,000	616,000	355,000	230,000
Dist-Cap	51,890	0	0	0	0	10,000	270,000	100,000	50,000	0	0
Cap Facil	2,527,730	5,173,576	3,133,305	598,802	6,666	601,667	0	0	0	0	0
Operating Cap **	0	0	0	0	0	0	25,000	25,000	25,000	25,000	25,000
Total Cap	2,731,626	5,311,699	3,204,818	683,201	56,796	660,820	532,000	255,000	691,000	380,000	255,000
Flooding Reserve	0	0	0	0	64,014	71,569	70,784	70,784	70,784	70,980	70,980
End Fund	4,053,132	4,574,850	2,376,428	2,206,493	3,087,280	2,156,565	1,409,712	1,255,524	556,203	56,761	(437,484)
Encumbrances	3,014,996	3,631,259	806,648	194,448	169,116						
End Unenc	1,038,136	943,591	1,569,780	2,012,045	2,918,164						
Cumulative Flooding Reserve					64,014	135,583	206,367	277,151	347,936	418,916	489,896

ASSUMPTIONS;

1) Revenues - 3% increase 1999 - 2003; 2% Increase effective for billing dates starting February 1, 2007
2) Operating expenses - increase 3% per year, except Plant increases 5% in 2009 and 4% in 2010