

CITY OF ALLENTOWN

**CAPITAL PROJECTS EXPENDITURE SUMMARY
NEW OR ADDITIONAL FUNDING**

<u>PROJECT #</u>	<u>PROJECT NAME</u>	<u>PAGE</u>	<u>ADDITIONAL AND/OR NEW 2009 REQUESTS</u>	<u>SOURCE OF 2009 FUNDING</u>
Sewer Fund				
1227	Automatic Meter Reading & Utility Billing Sys	CF - 3	20,000	S
1242	Wastewater Treatment Works Security	CF - 4	75,000	S
1267	Wastewater Plant Equalization Tank	CF - 8	150,000	S
1727	SSES Rehabilitation	CF - 12	250,000	S
1743	Mechanical Renovations WWTP	CF - 13	215,000	S
1806	Emergency Sewer Repairs	CF - 15	40,000	S
Solid Waste				
1264	R-SW Office Drop Off Center Improvements	CF - 7	180,000	SW
Water Fund				
1211	Centrifugally Spun Cast Iron Water Main Pipe	CF - 2	115,000	W
1227	Automatic Meter Reading & Utility Billing Sys	CF - 3	5,000	W
1243	Water System Security Upgrades	CF - 5	15,000	W
1254	Mechanical Renovations - Water Plant	CF - 6	100,000	W
1725	Water Distribution Replacement	CF - 11	115,000	W
1805	Emergency Water Repairs	CF - 14	50,000	W
Department of Parks and Recreation				
1638	Cedar Parkway Improvements - Phase 1	CF - 9	200,000	T
1663	City Wide Trail Feasibility Study	CF - 10	10,000	T
1899	Trout Nursery Renovations	CF - 16	35,000	T
1902	Entrance Way Landscaping	CF - 17	5,000	T
			TOTAL	1,580,000

Totals by Source of Financing:

S - \$750,000

SW - \$180,000

T - \$250,000

W - \$400,000

GF - General Fund

SW - Solid Waste Fund

W - Water Fund

S - Sewer Fund

T - Trexler Fund

C - Other Non-City

CAPITAL PROJECT DETAIL

PROJECT: 1211 CENTRIFICALLY SPUN CAST IRON WATER MAIN PIPE

DESCRIPTION:

This project consists of replacing various sections of spun cast iron pipelines, which have a high incidence of breakage then other pipeline materials found within the City's Water Distribution.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	115,000		115,000
2010	1,200,000		1,200,000
2011	1,300,000		1,300,000
2012	1,300,000		1,300,000
2013	1,300,000		1,300,000
TOTAL	5,215,000	-	5,215,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	115,000	
Water Revenue Bonds		5,100,000

IMPACT ON OPERATING BUDGET:

Project will not affect the everyday operating costs for the City. However, this project will help to protect the City's infrastructure and adjoining properties from sudden water main breaks and sinkholes, etc.

CAPITAL PROJECT DETAIL

PROJECT: 1227 **AUTOMATIC METER READING AND UTILITY BILLING SYSTEM**

DESCRIPTION:

To move to an automated meter reading system in conjunction with the installation of Eden billing software. The billing system is an Eden module that is expected to be in place in 2009. Once completed we will continue movement to an automated meter reading system.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	550,000		550,000
2009	25,000		25,000
2010	-		-
2011	-		-
2012	-		-
2013	-		-
TOTAL	575,000	-	575,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	5,000	
Sewer Fund	20,000	

IMPACT ON OPERATING BUDGET:

This project will affect the Water/Sewer budgets. Battery replacement for automated meter reading equipment is a 20 year cycle. Based upon Old Age tests we could reduce our unaccounted for water to approximately 10% or 12% which is in line with AWWA Standards. The billing system will produce increased revenues if we correct the delayed posting problems we are currently encountering. The current billing system does not allow estimated billing, we can only bill twice monthly (quarterly bills), can not generate or bill final.

CAPITAL PROJECT DETAIL

PROJECT: 1242 WASTEWATER TREATMENT WORKS SECURITY

DESCRIPTION:

The project involves the installation of security upgrades and damage mitigation equipment for the wastewater treatment facility. Presently, the plant has minimal security measures in place and could be vulnerable. Applicable equipment that might be installed to make the plant more secure includes, but is not limited to: fencing, gates, security cameras/closed circuit TV and card locks on doors.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	150,000		150,000
2009	75,000		75,000
2010	50,000		50,000
2011	25,000		25,000
2012	25,000		25,000
2013	25,000		25,000
TOTAL	350,000	-	350,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Sewer Fund	75,000	125,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by the Sewer fund and Sewer Revenue Bonds. Its indirect affect reduces General Fund liability by maintaining City water infrastructure by reducing potential fines from violation of operating permits.

CAPITAL PROJECT DETAIL

PROJECT: 1243 WATER SYSTEM SECURITY UPGRADES

DESCRIPTION:

This project involves the design and construction of security upgrades as recommended by the federally funded vulnerability assessment of the Water System. The project will eventually lead to a Water Resources Security System, with the same security system being expanded to protect the water and wastewater plants, the distribution offices, and the distribution and collection system.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	460,000		460,000
2009	15,000		15,000
2010	25,000		25,000
2011	25,000		25,000
2012	25,000		25,000
2013	25,000		25,000
TOTAL	575,000	-	575,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	15,000	200,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is financed by the Water Fund. Its indirect affect reduces General Fund liability by maintaining City water infrastructure by reducing potential fines from violation of operating permits.

CAPITAL PROJECT DETAIL

PROJECT: **1254 MECHANICAL RENOVATIONS - WATER PLANT**

DESCRIPTION:

This project will be an on-going preventative maintenance and equipment replacement account for the Water Plant. The plant went through large retrofit project in the mid - 1990's, but even much of the equipment that was installed during that project is nearing the end of its anticipated useful life. Pumps, meters, etc. can be very expensive to replace, and the breakdown may have been unforeseen and therefore unbudgeted. Existing equipment will be constantly evaluated, and be fixed/replaced as needed using this account.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	100,000		100,000
2010	250,000		250,000
2011	250,000		250,000
2012	250,000		250,000
2013	250,000		250,000
TOTAL	1,100,000	-	1,100,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	100,000	1,000,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by the Water Fund and Water Revenue Bonds.

CAPITAL PROJECT DETAIL

PROJECT: 1264 R-SW OFFICE DROP OFF CENTER IMPROVEMENTS

DESCRIPTION:

Developing and drawing of plans for 2009. Multi-phase improvements to the City's Recycling Center on Martin Luther King, Jr. Drive including a design plan for a new "green" office (working toward LEED certification), new materials storage area, relocation of compactors and balers, improved access for citizen drop off, expansion of materials accepted for recycling, new fencing and security enhancements, site improvements and landscaping for improvement of water runoff quality. The project is multi year:
 2010 - Construction of the new office space and 2011 - Improvements to the drop off center

FUNDING:		<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to	2009	-		-
	2009	180,000		180,000
	2010	1,200,000		1,200,000
	2011	625,000		625,000
	2012	-		-
	2013	-		-
TOTAL		2,005,000	-	2,005,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Solid Waste	180,000	
G.O. Bond		1,825,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by Solid Waste Fund. Operating costs related to the office may increase modestly, due to the "green" features built into the project.

CAPITAL PROJECT DETAIL

PROJECT: 1267 WASTEWATER PLANT EQUALIZATION TANK

DESCRIPTION:

The wastewater plant is currently under an EPA Administrative Order to eliminate all bypasses at the facility. The design and construction of an equalization basin (surge tank) is required to store excessive flows that would otherwise become bypasses, and release back into the system to allow for full treatment. The preliminary cost for the 10,000,000 gallon storage facility is approximately \$15,000,000.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	150,000		150,000
2010	675,000		675,000
2011	5,675,000		5,675,000
2012	5,000,000		5,000,000
2013	5,000,000		5,000,000
TOTAL	16,500,000	-	16,500,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Sewer Fund	150,000	1,350,000
Sewer Revenue Bonds		15,000,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund, and is funded by Sewer Revenue Bonds. An indirect affect on the General Fund is a reduction of environmental liability for the City by increasing the treatment plant functionality.

CAPITAL PROJECT DETAIL

PROJECT: 1638 CEDAR PARKWAY IMPROVEMENTS PHASE I

DESCRIPTION:

Sole recommendations of the Master Site Plan developed for the Cedar Creek Parkway, including but not limited to Phase I Development. Creating a hub for Parks and Recreation Administration, updating picnic pavilion areas, electrical and plumbing upgrades, installation of a destination playground, trail connections.

FUNDING:		<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to	2009		984,895	984,895
	2009		200,000	200,000
	2010		600,000	600,000
	2011		100,000	100,000
	2012			-
	2013			-
TOTAL		-	1,884,895	1,884,895

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Trexler Fund	200,000	100,000
Other Sources <i>(State Aid, Lehigh County)</i>		600,000

IMPACT ON OPERATING BUDGET:

With renovated facilities and new playground, park participation and special events will increase, and will increase the need for basic services such as trash collection and restroom cleaning.

CAPITAL PROJECT DETAIL

PROJECT: 1663 CITY WIDE TRAIL FEASIBILITY STUDY

DESCRIPTION:

The purpose of this project is to create a comprehensive trails plan which will serve as a stimulus for the connection and creation of trails within the City, including the identification of missing links within the existing trail system. The plan process will include collection of inventory analysis and data, including site conditions, material, and natural resources and existing land use patterns. The plan will recommend potential cost estimates and time lines required for implementation, current funding, and maintaining the current City-wide trail system.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009		100,000	100,000
2009		10,000	10,000
2010			-
2011			-
2012			-
2013			-
TOTAL	-	110,000	110,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Trexler Fund	10,000	
Other Sources <i>(State Aid, Lehigh County)</i>		

IMPACT ON OPERATING BUDGET:

The plan itself will not generate additional costs.

CAPITAL PROJECT DETAIL

PROJECT: 1725 WATER DISTRIBUTION REPLACEMENT

DESCRIPTION:

This project consists of replacing old water mains and service lines at various locations within the City, based upon a combination of criteria, such as; age, history of maintenance problems, impending street paving work, and geology (pertaining to sinkholes, etc.).

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	115,000		115,000
2010	1,100,000		1,100,000
2011	1,200,000		1,200,000
2012	1,200,000		1,200,000
2013	1,200,000		1,200,000
TOTAL	4,815,000	-	4,815,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	115,000	
Water Revenue Bonds		4,700,000

IMPACT ON OPERATING BUDGET:

Project will not affect the everyday operating costs for the City. However, this project will help in providing improved service, reduce maintenance and liability costs, and protect the City's infrastructure.

CAPITAL PROJECT DETAIL

PROJECT: 1727 SSES REHABILITATION

DESCRIPTION:

This project involves TV inspections, sewer joint sealing, repairs to broken and/or leaking sewer pipes, and the removal of other extraneous water entering the sanitary trunk sewer and sewer collection system.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	250,000		250,000
2010	300,000		300,000
2011	300,000		300,000
2012	300,000		300,000
2013	300,000		300,000
TOTAL	1,450,000	-	1,450,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Sewer Fund	250,000	1,200,000

IMPACT ON OPERATING BUDGET:

Removing 100,000 gallons per day of extraneous water from the sewer collection system will reduce operating costs at the treatment plant. The amount of removal then becomes available for sale to suburbs for \$400,000, or current prices.

CAPITAL PROJECT DETAIL

PROJECT: 1743 MECHANICAL RENOVATIONS WWTP

DESCRIPTION:

This is an on-going preventative maintenance project that addresses equipment at the wastewater treatment plant. The project addresses planned replacement of equipment that is reaching the end of its useful life, and also is used for unplanned breakdowns/repairs/etc. that must be dealt with immediately.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	215,000		215,000
2010	250,000		250,000
2011	250,000		250,000
2012	250,000		250,000
2013	250,000		250,000
TOTAL	1,215,000	-	1,215,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Sewer Fund	215,000	1,000,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by Sewer Fund and Sewer Revenue Bonds. Its indirect affect reduces General Fund liability by maintaining City water infrastructure by reducing potential fines from violation of operating permits.

CAPITAL PROJECT DETAIL

PROJECT: 1805 EMERGENCY WATER REPAIRS

DESCRIPTION:

This project is an emergency reserve account for unplanned expenditures within the City's water treatment plant and distribution systems. A project early in 2006 involved a contractor doing a leak survey on the 30" and 36" steel lines going to the east side of the city. Currently, there are only 2 lines that serve the east side, so repairs of any leaks would be crucial. That project invested \$84,000 for the leak survey. The project detected 13 leaks over 2.5 miles of inspected pipeline. An outside contractor is needed for the leak repairs due to the lack of certain heavy equipment currently owned by the City.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	50,000		50,000
2010	50,000		50,000
2011	50,000		50,000
2012	50,000		50,000
2013	50,000		50,000
TOTAL	250,000	-	250,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Water Fund	50,000	200,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by the Water Fund and Water Revenue Bonds. Its indirect affect reduces General Fund liability by maintaining City water infrastructure by reducing potential fines from violation of operating permits.

CAPITAL PROJECT DETAIL

PROJECT: 1806 EMERGENCY SEWER REPAIRS

DESCRIPTION:

This project is an emergency reserve account to deal with unplanned expenditures (emergencies) that are related to the City's wastewater treatment plant and sewage collection system.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009	40,000		40,000
2010	50,000		50,000
2011	50,000		50,000
2012	50,000		50,000
2013	50,000		50,000
TOTAL	240,000	-	240,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Sewer Fund	40,000	200,000

IMPACT ON OPERATING BUDGET:

This project does not affect the General Fund and is funded by Sewer Fund. Its indirect affect reduces General Fund liability by maintaining City water infrastructure by reducing potential fines from violation of operation permits.

CAPITAL PROJECT DETAIL

PROJECT: 1899 TROUT NURSERY RENOVATIONS

DESCRIPTION:

Complete renovations and improvements to the existing trout rearing ponds, and other trout hatchery facilities including, but not limited to the filtration system, electrical upgrades, parking lot, signage, pedestrian bridge, pavilion, and other improvements as identified in the conceptual and master design.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009		35,000	35,000
2010		10,000	10,000
2011			-
2012			-
2013			-
TOTAL	-	45,000	45,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Trexler Fund	35,000	10,000

IMPACT ON OPERATING BUDGET:

CAPITAL PROJECT DETAIL

PROJECT: 1902 ENTRANCE WAY LANDSCAPING

DESCRIPTION:

Create and maintain pleasing and inviting entrance ways to our City by brightening and enhancing medians, islands and flower beds. Welcome signs are being designed and landscape plans will be installed at various entrance ways and medians to the City.

FUNDING:	<u>CITY SHARE</u>	<u>NON-CITY SHARE</u>	<u>TOTAL PROJECT</u>
Prior to 2009	-		-
2009		5,000	5,000
2010		15,000	15,000
2011		10,000	10,000
2012		10,000	10,000
2013		10,000	10,000
TOTAL	-	50,000	50,000

PROPOSED SOURCES OF FUNDING:

<u>FUND SOURCE</u>	<u>2009</u>	<u>BEYOND 2009</u>
Trexler Fund	5,000	45,000

IMPACT ON OPERATING BUDGET:

New areas created will require more attention and maintenance.

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